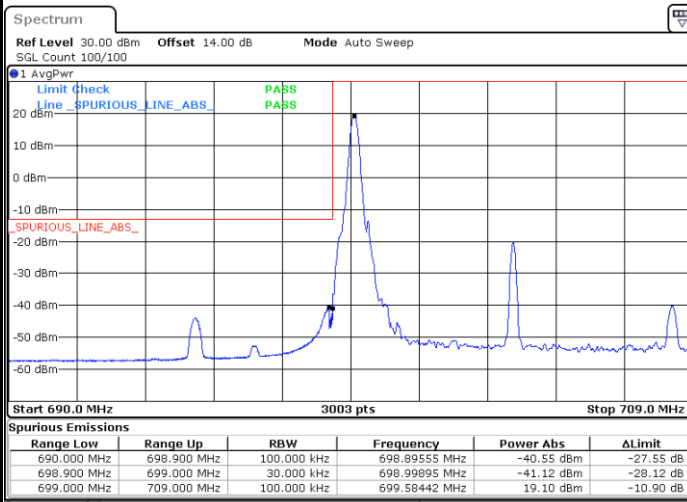




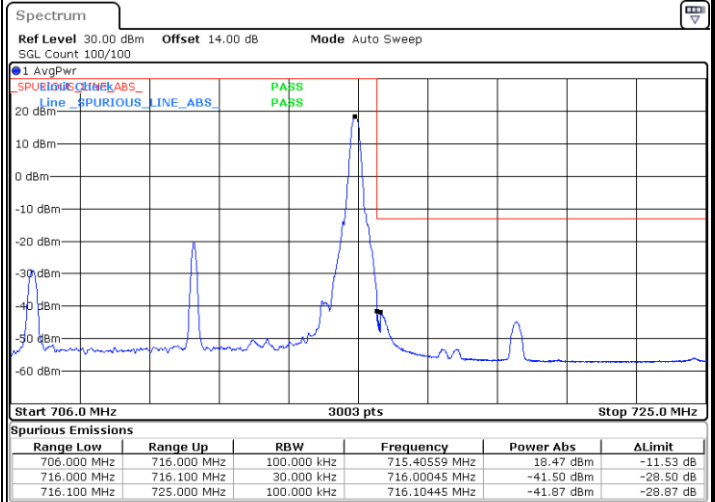
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



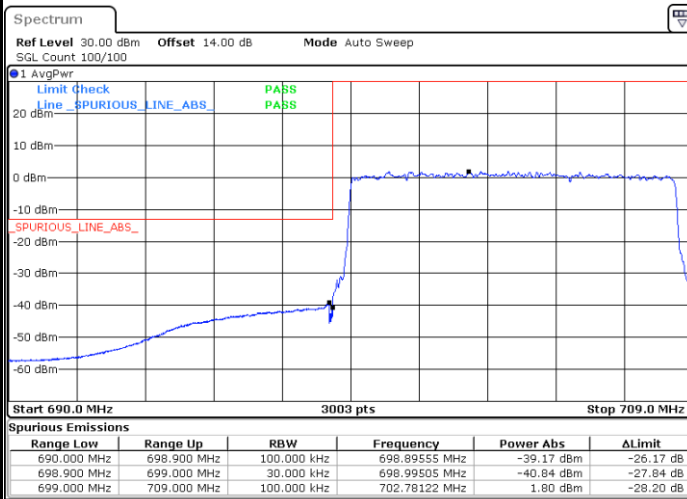
Date: 2.APR.2022 11:08:23

Highest Band Edge / 1 RB



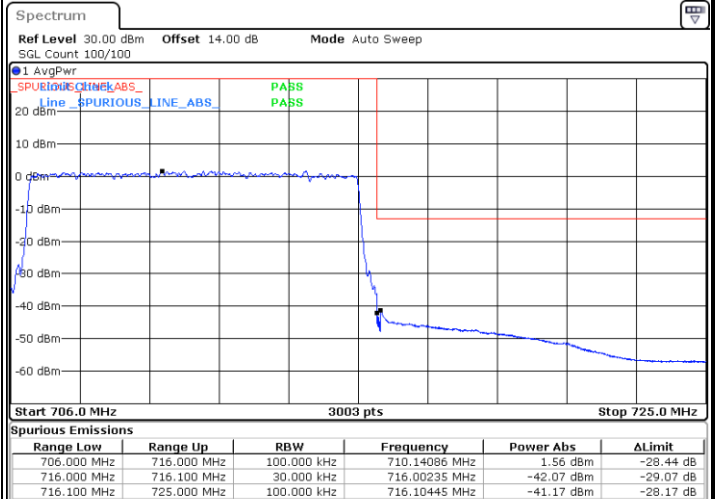
Date: 2.APR.2022 11:13:35

Lowest Band Edge / Full RB



Date: 2.APR.2022 11:07:20

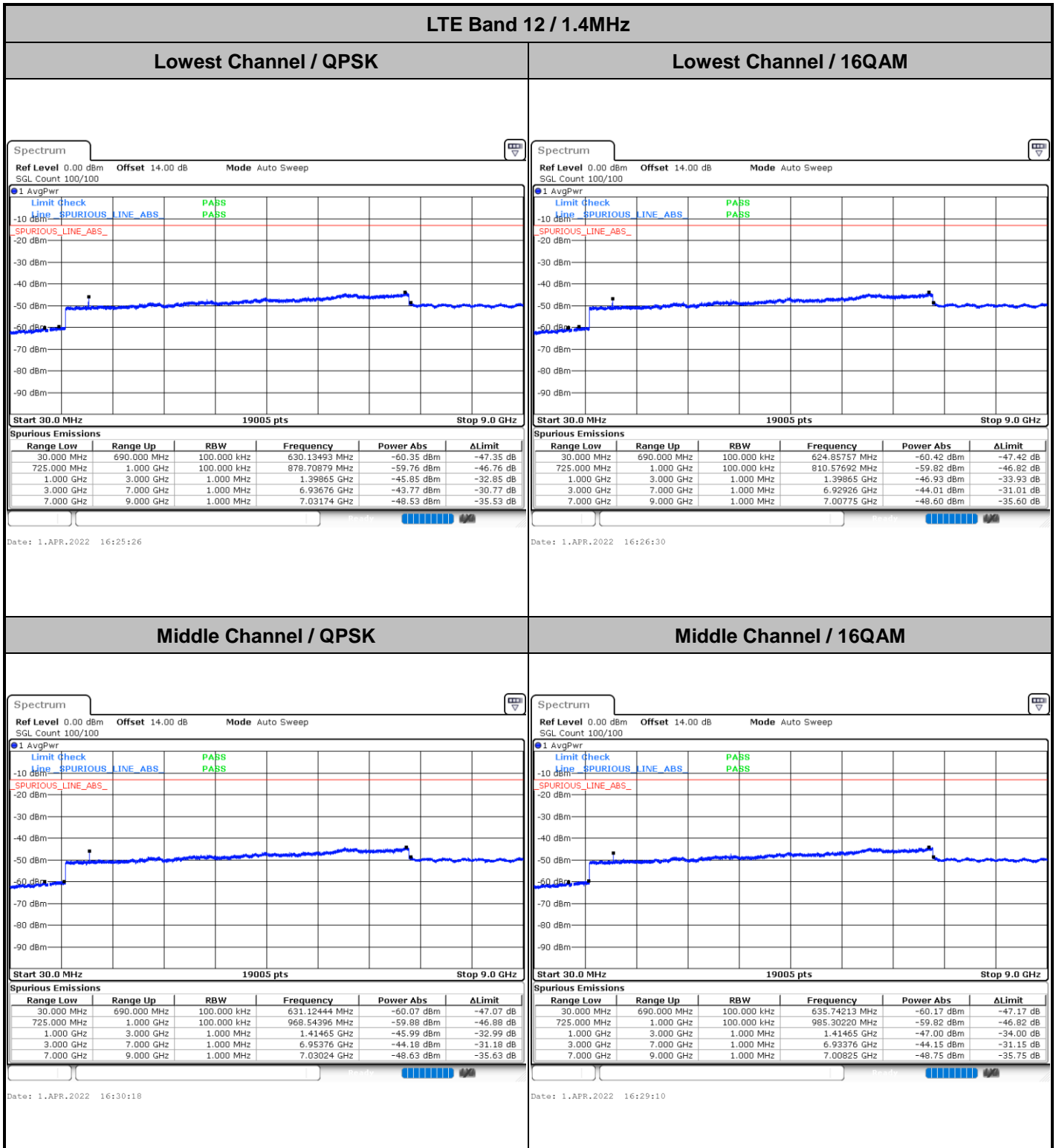
Highest Band Edge / Full RB



Date: 2.APR.2022 11:12:32



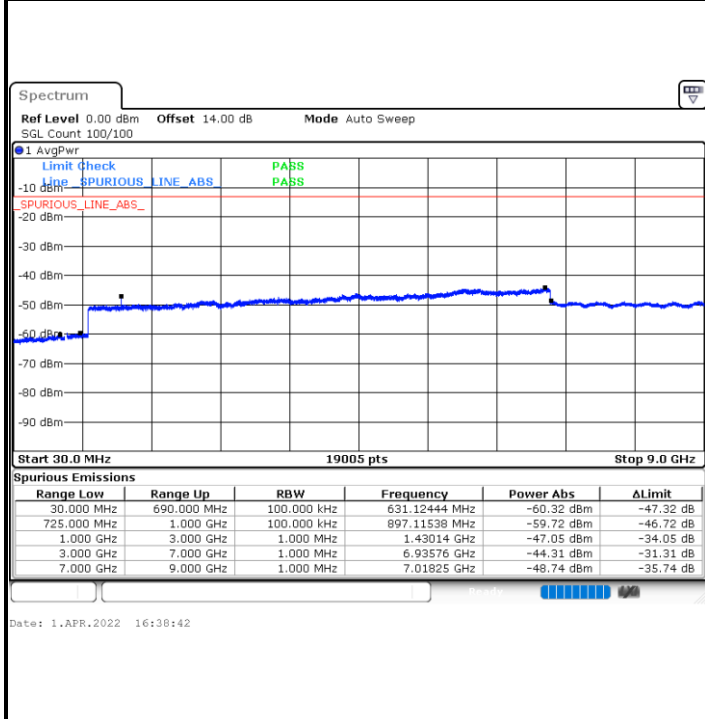
Conducted Spurious Emission



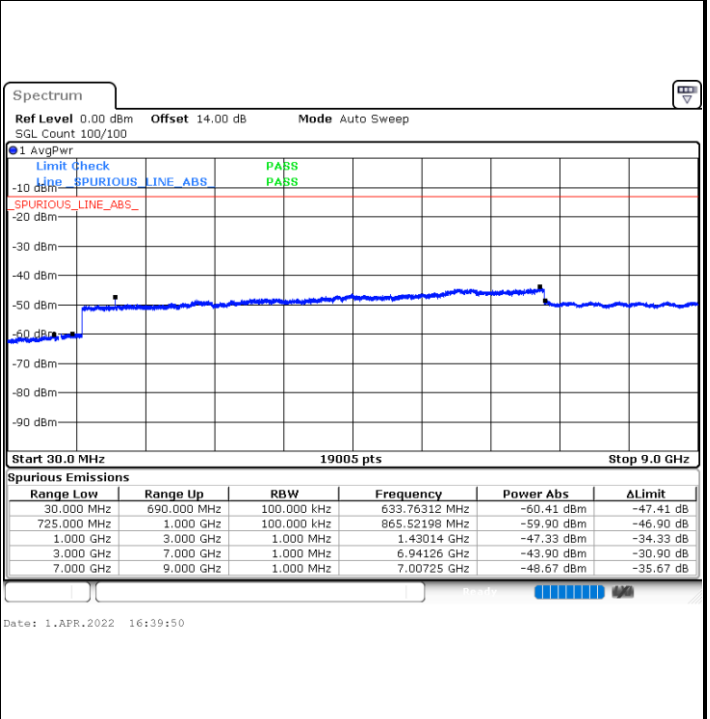


LTE Band 12 / 1.4MHz

Highest Channel / QPSK

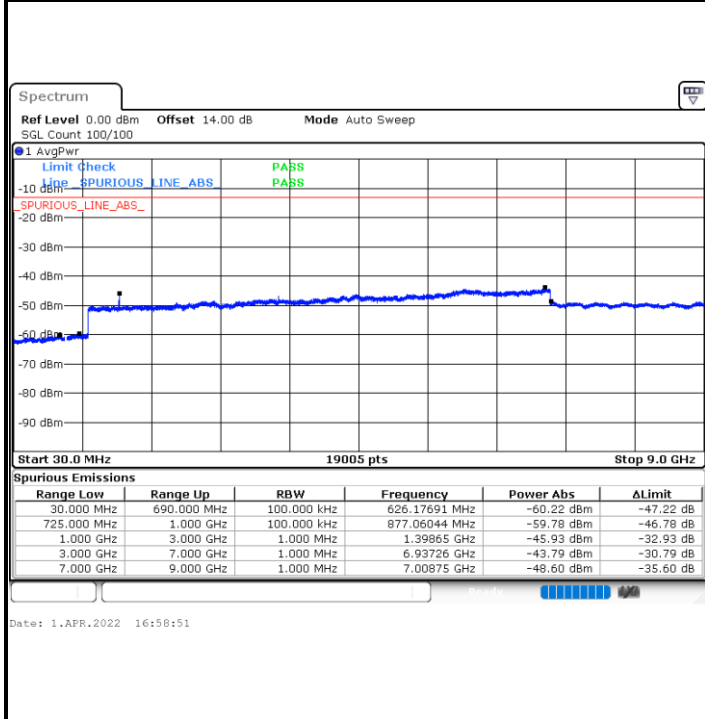


Highest Channel / 16QAM

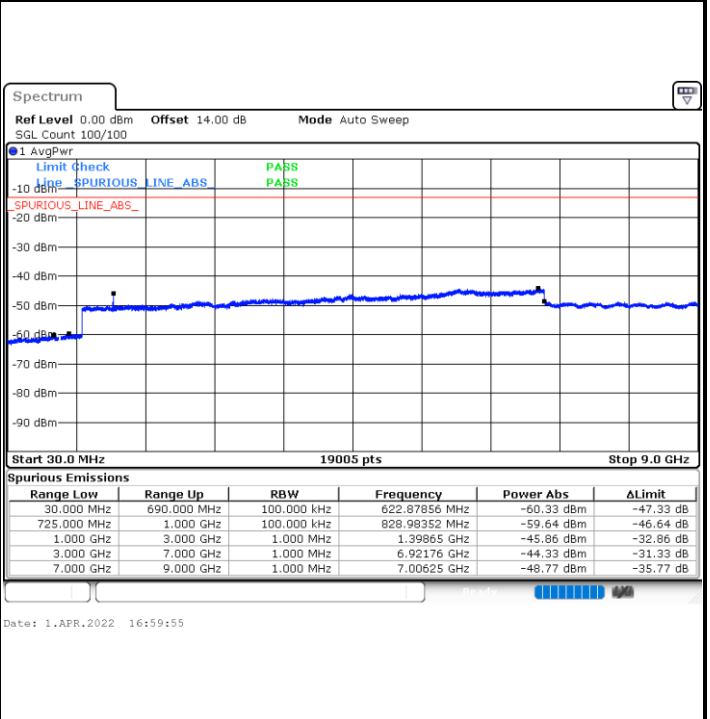


LTE Band 12 / 3MHz

Lowest Channel / QPSK



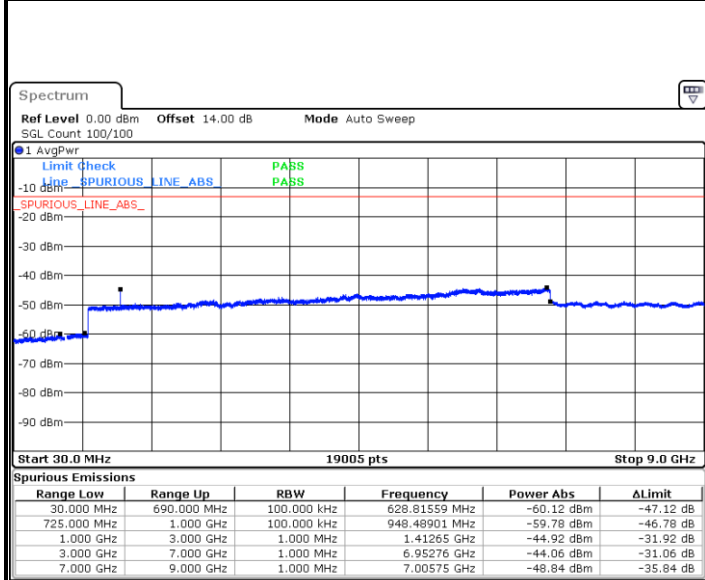
Lowest Channel / 16QAM





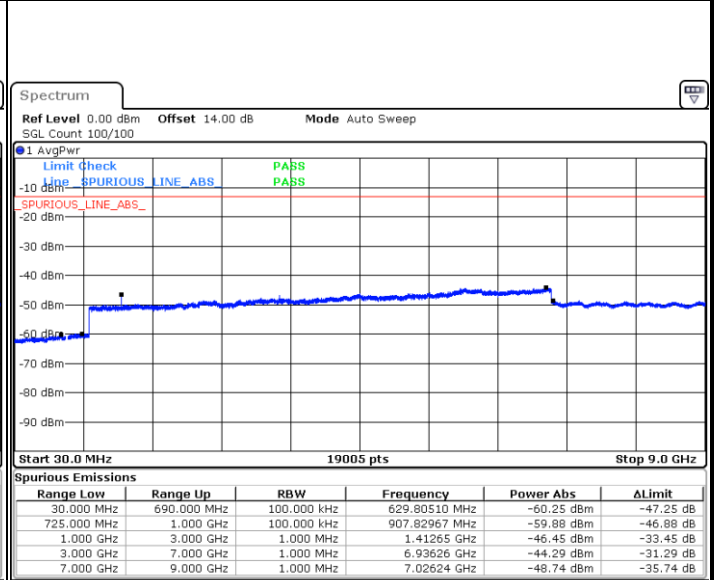
LTE Band 12 / 3MHz

Middle Channel / QPSK



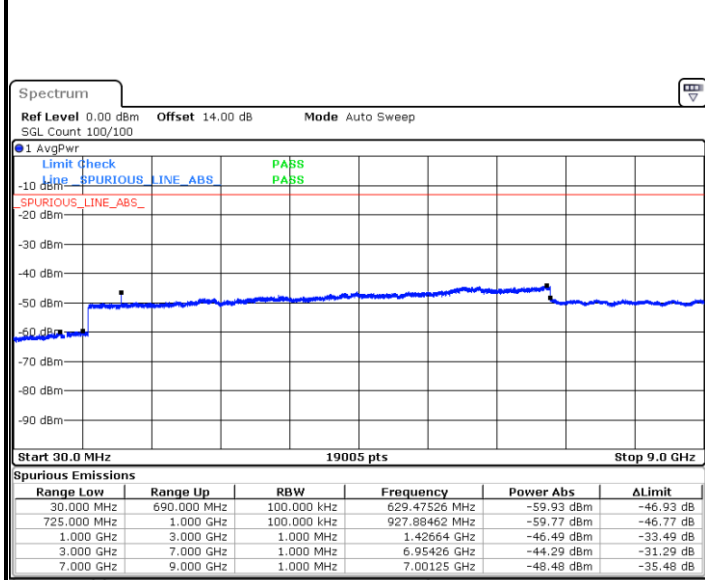
Date: 1.APR.2022 17:03:42

Middle Channel / 16QAM



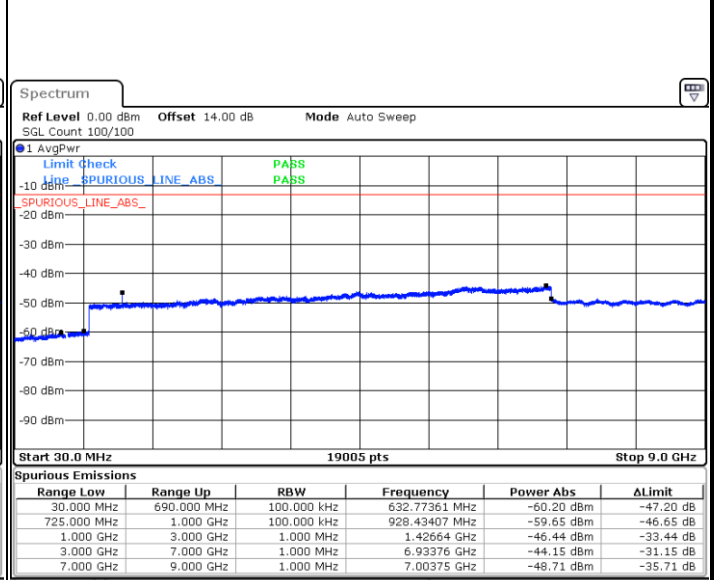
Date: 1.APR.2022 17:02:34

Highest Channel / QPSK



Date: 1.APR.2022 17:12:04

Highest Channel / 16QAM

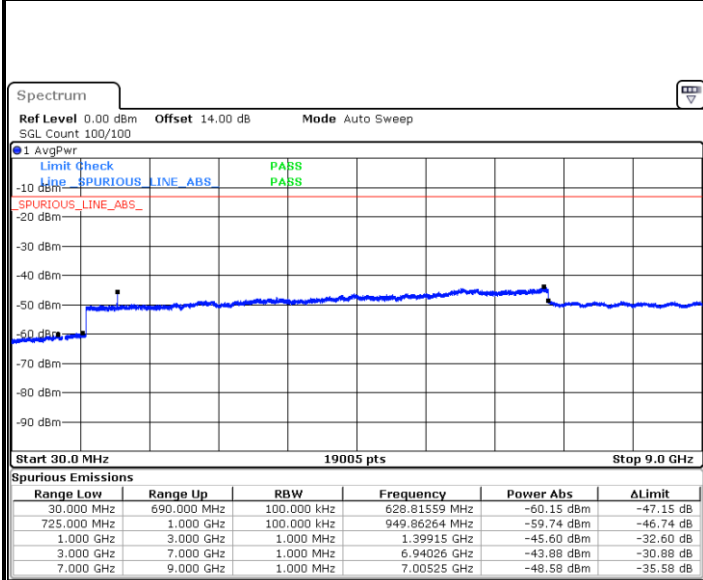


Date: 1.APR.2022 17:13:11



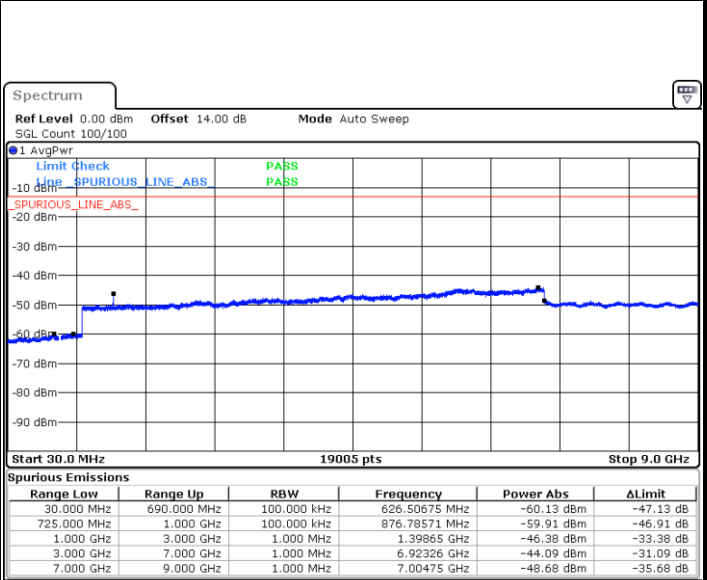
LTE Band 12 / 5MHz

Lowest Channel / QPSK



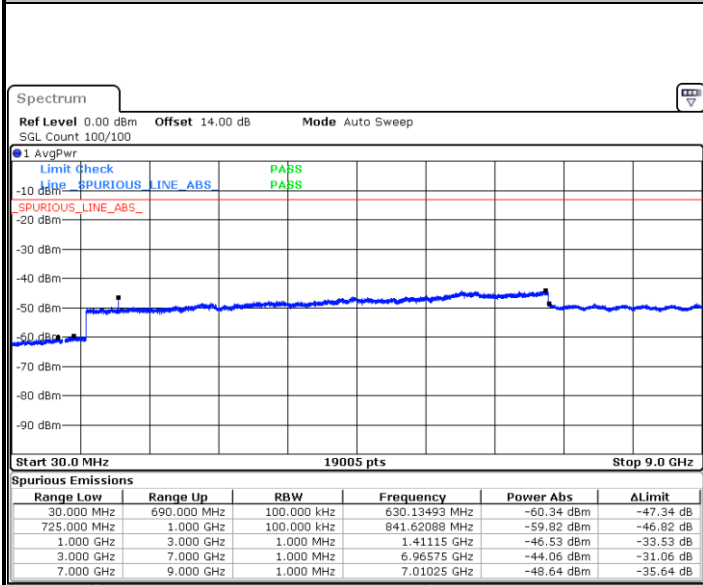
Date: 1.APR.2022 17:43:41

Lowest Channel / 16QAM



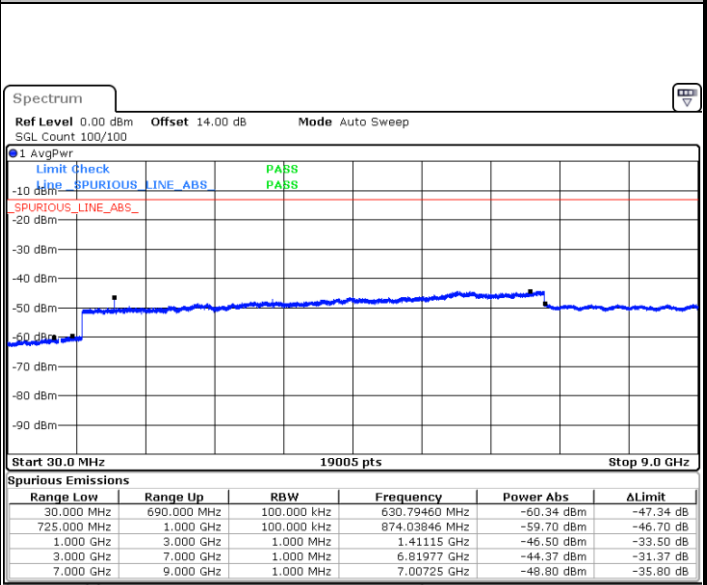
Date: 1.APR.2022 17:44:44

Middle Channel / QPSK



Date: 1.APR.2022 17:48:31

Middle Channel / 16QAM

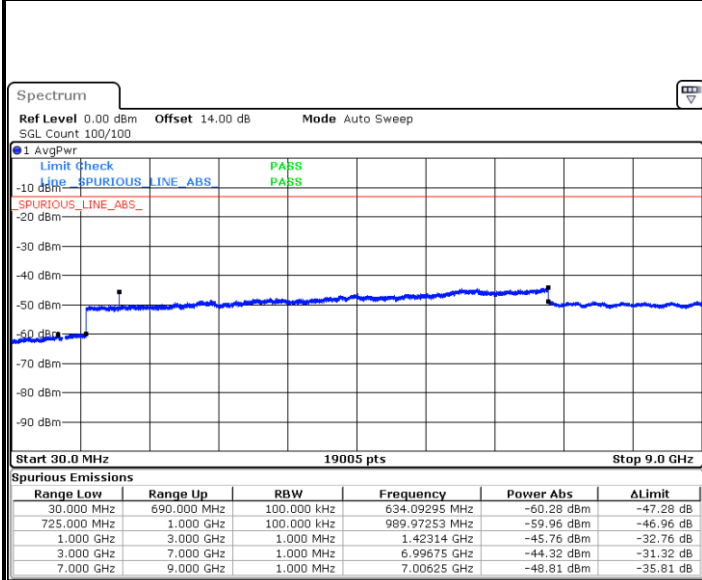


Date: 1.APR.2022 17:47:24



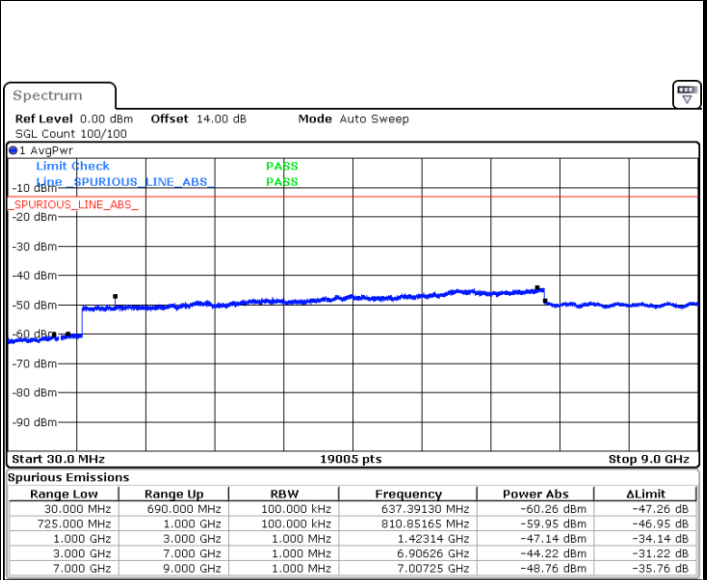
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 2.APR.2022 10:47:02

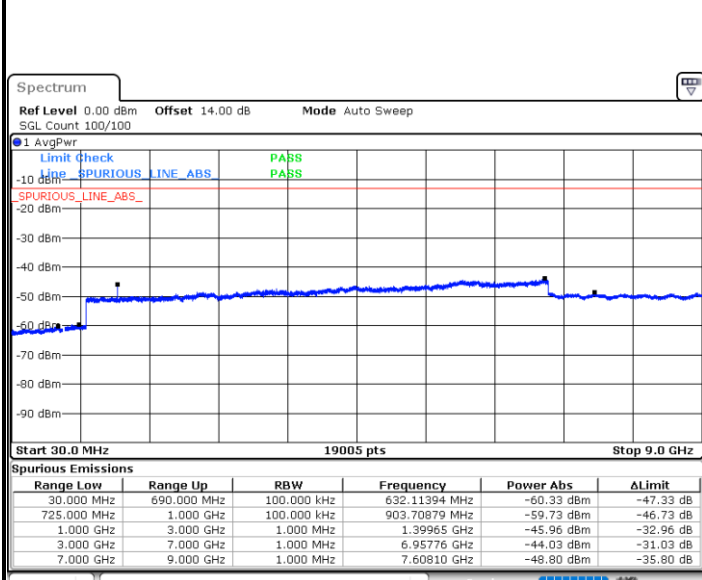
Highest Channel / 16QAM



Date: 2.APR.2022 10:45:59

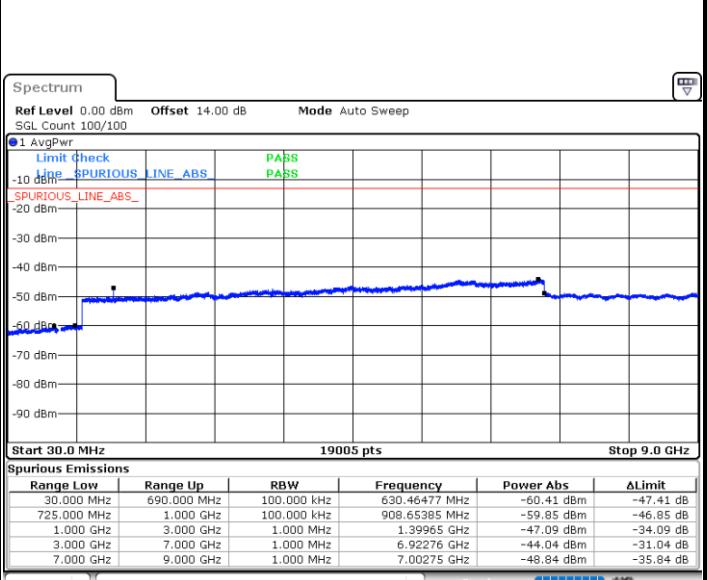
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 2.APR.2022 10:53:32

Lowest Channel / 16QAM

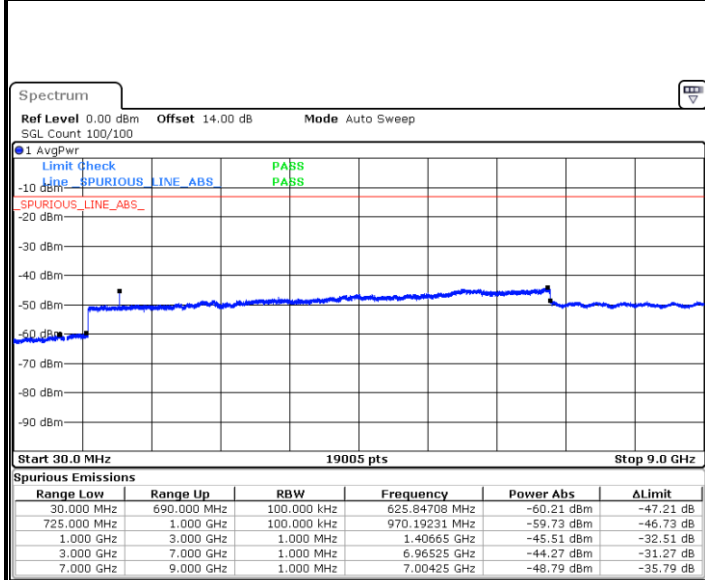


Date: 2.APR.2022 10:54:35



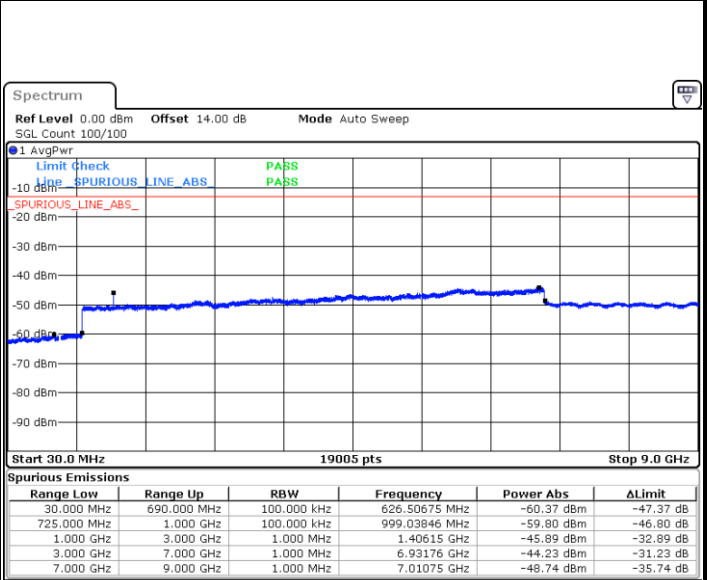
LTE Band 12 / 10MHz

Middle Channel / QPSK



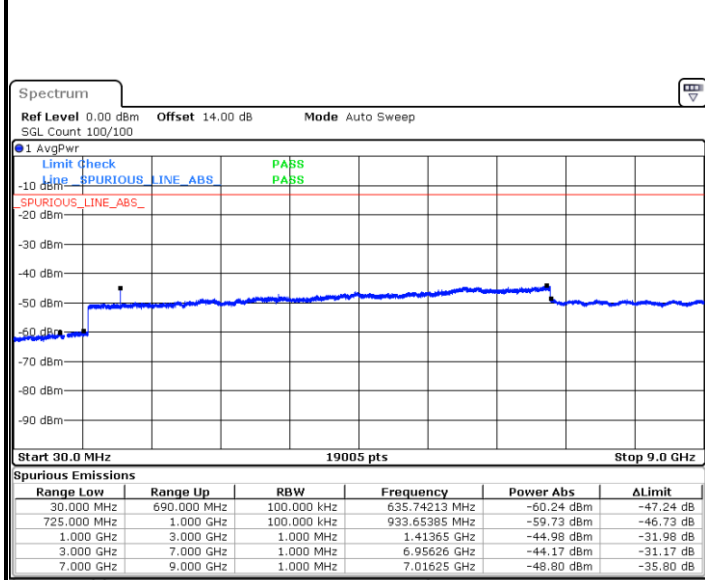
Date: 2.APR.2022 10:58:09

Middle Channel / 16QAM



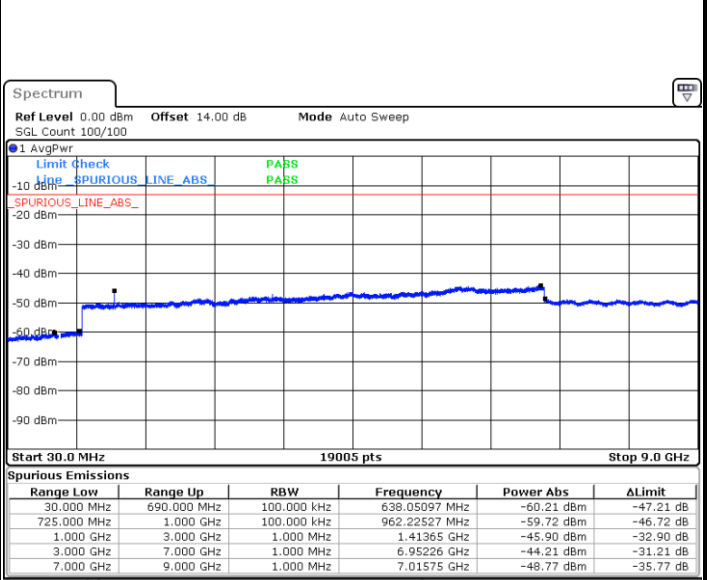
Date: 2.APR.2022 10:57:06

Highest Channel / QPSK



Date: 2.APR.2022 11:04:43

Highest Channel / 16QAM



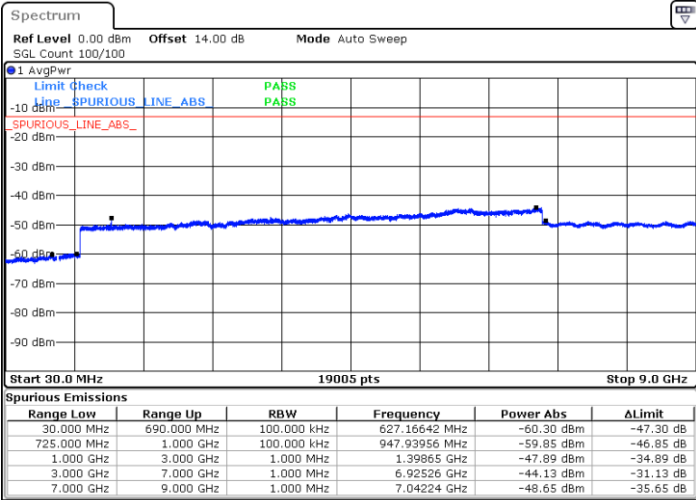
Date: 2.APR.2022 11:05:47



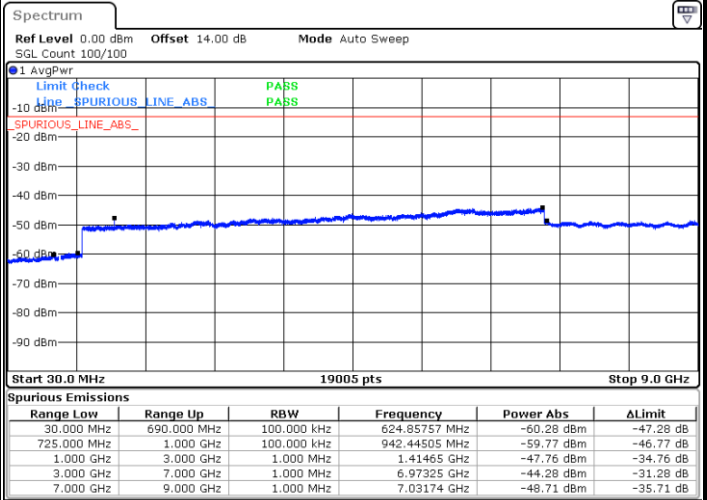
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

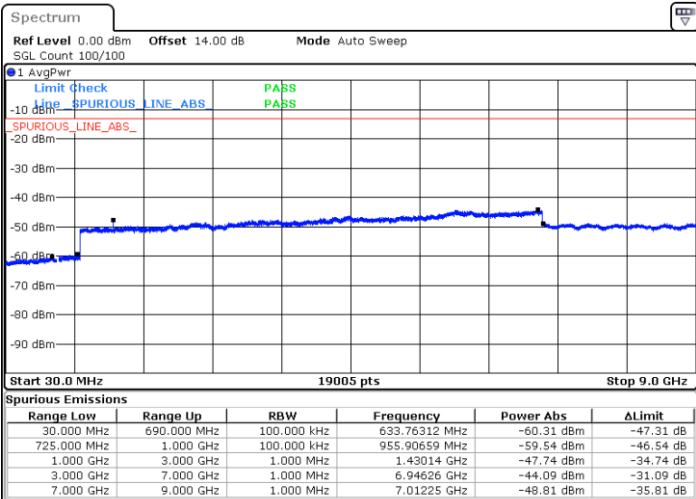


Date: 1.APR.2022 16:44:14



Date: 1.APR.2022 16:46:00

Highest Channel / 64QAM



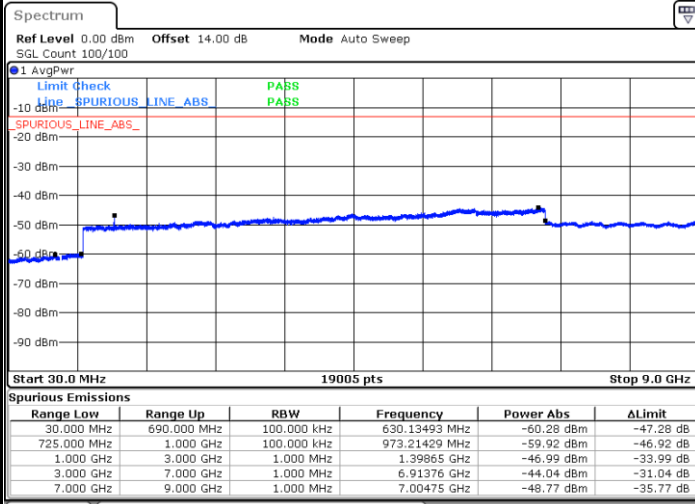
Date: 1.APR.2022 16:50:33



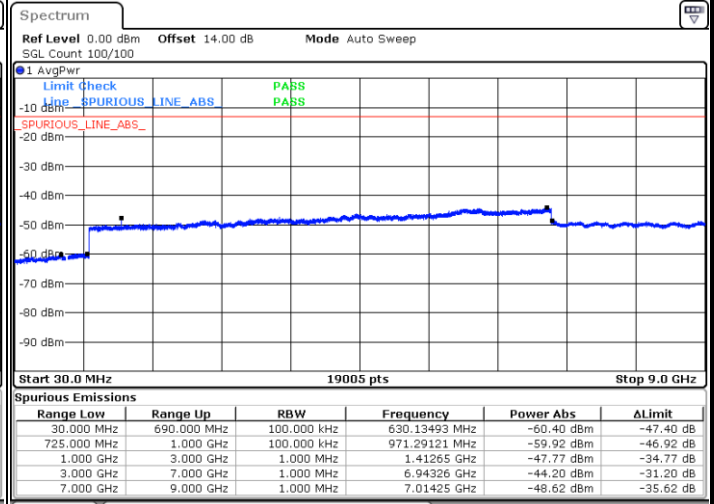
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

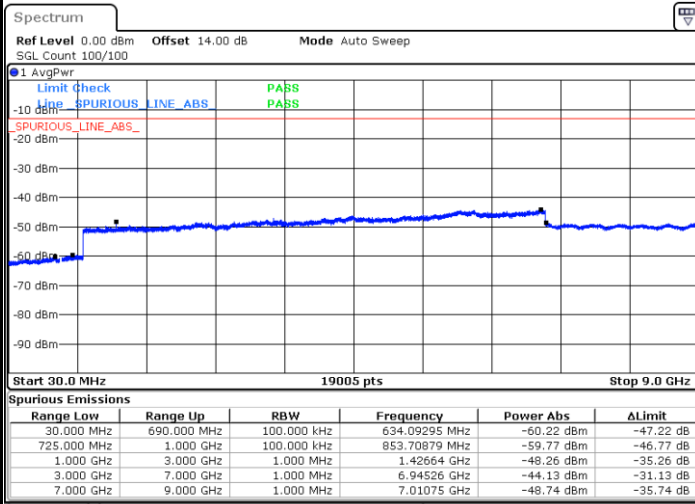


Date: 1.APR.2022 17:17:35



Date: 1.APR.2022 17:19:22

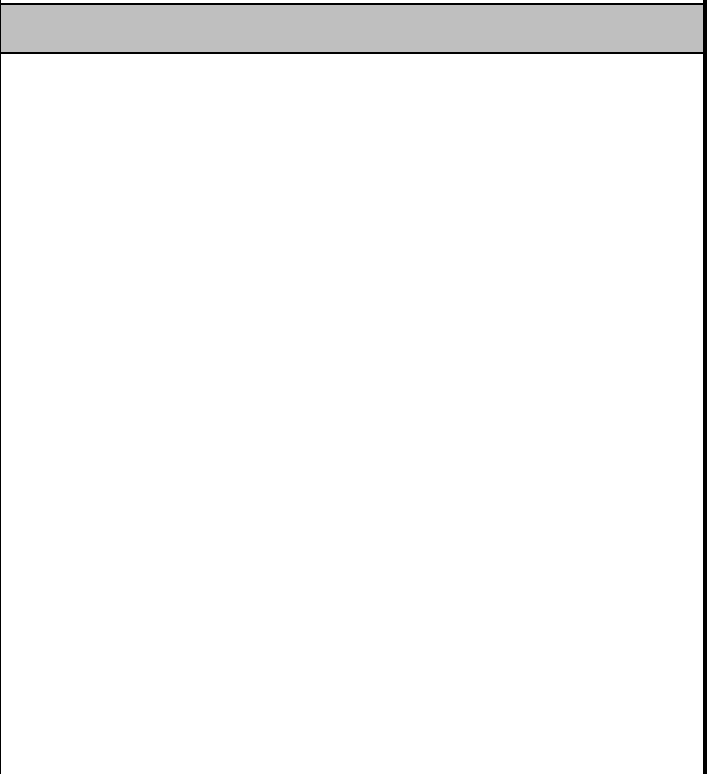
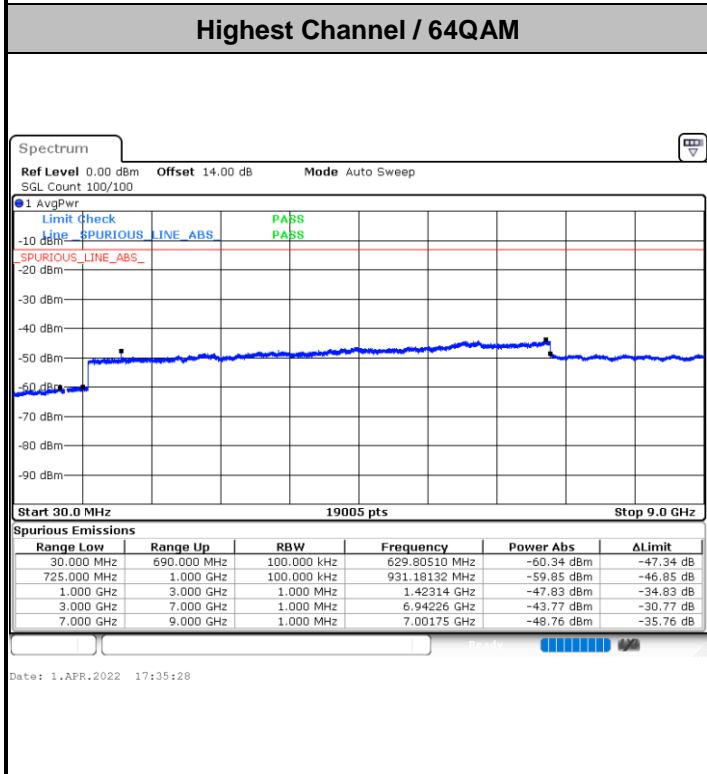
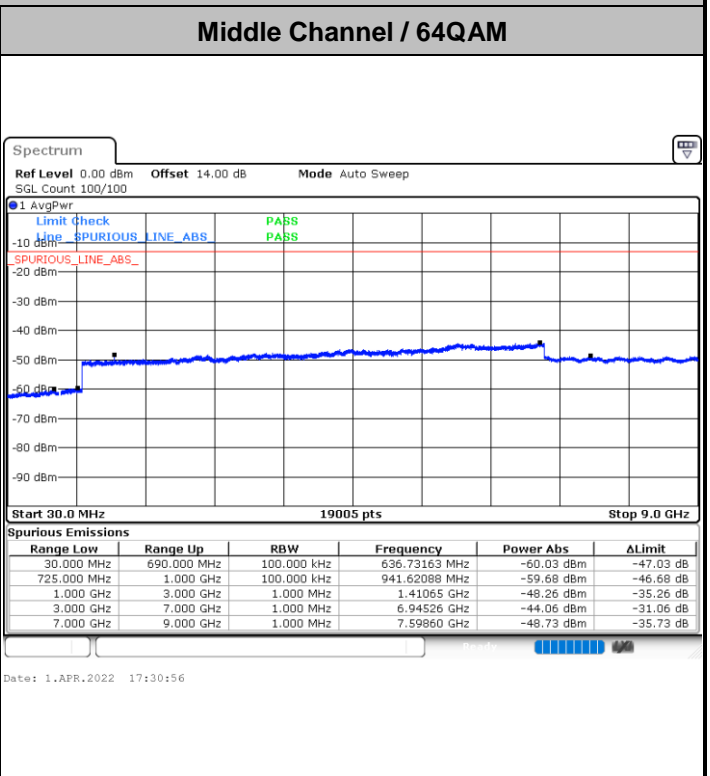
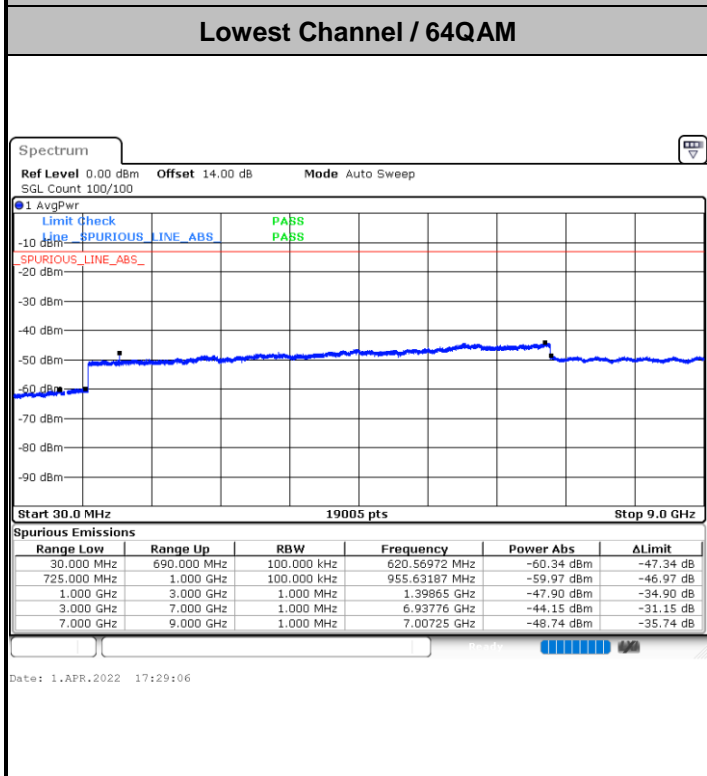
Highest Channel / 64QAM



Date: 1.APR.2022 17:23:55



LTE Band 12 / 5MHz

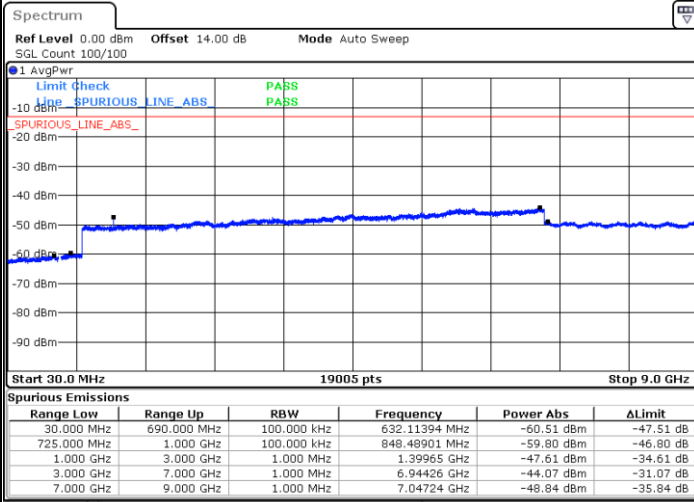




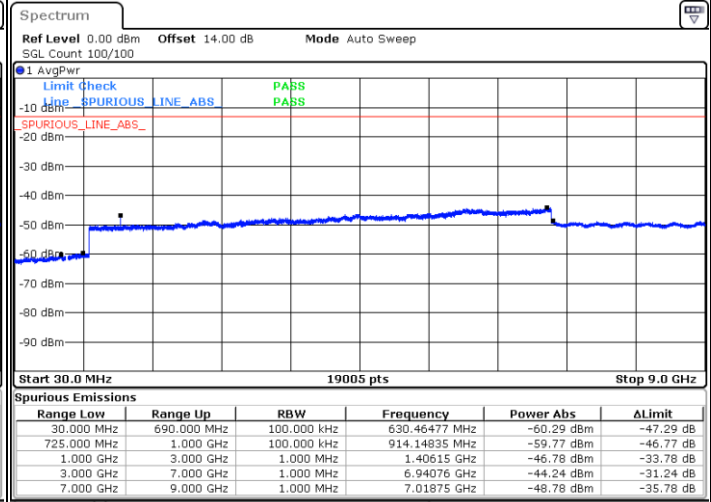
LTE Band 12 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

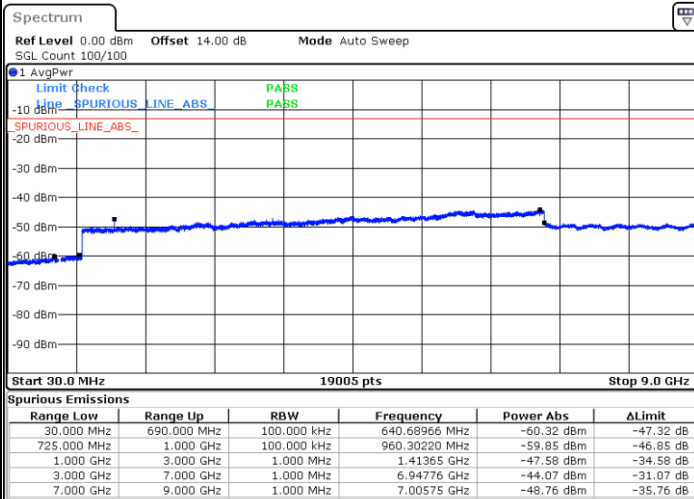


Date: 2.APR.2022 11:09:17



Date: 2.APR.2022 11:10:59

Highest Channel / 64QAM



Date: 2.APR.2022 11:14:38



Frequency Stability

| Test Conditions | | LTE Band 12 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0013 | PASS |
| 40 | Normal Voltage | 0.0001 | |
| 30 | Normal Voltage | 0.0004 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0010 | |
| 0 | Normal Voltage | 0.0023 | |
| -10 | Normal Voltage | 0.0017 | |
| -20 | Normal Voltage | 0.0018 | |
| -30 | Normal Voltage | 0.0011 | |
| 20 | Maximum Voltage | 0.0010 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0010 | |

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

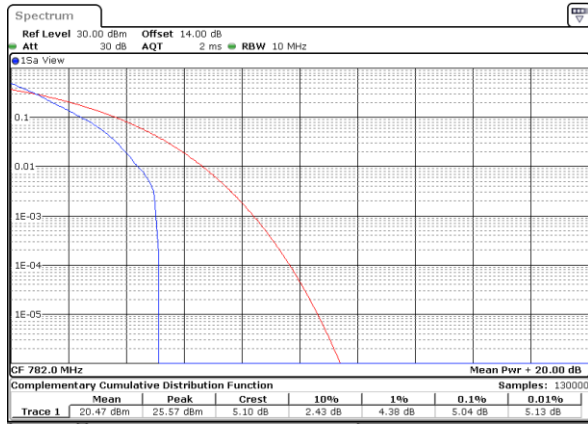
Peak-to-Average Ratio

| Mode | LTE Band 13 / 10MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | - | - | - | - | PASS |
| Middle CH | 5.04 | 4.96 | 6.03 | 5.88 | |
| Highest CH | - | - | - | - | |
| Mode | LTE Band 13 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | - | - | - | - | PASS |
| Middle CH | 6.20 | 6.20 | - | - | |
| Highest CH | - | - | - | - | |



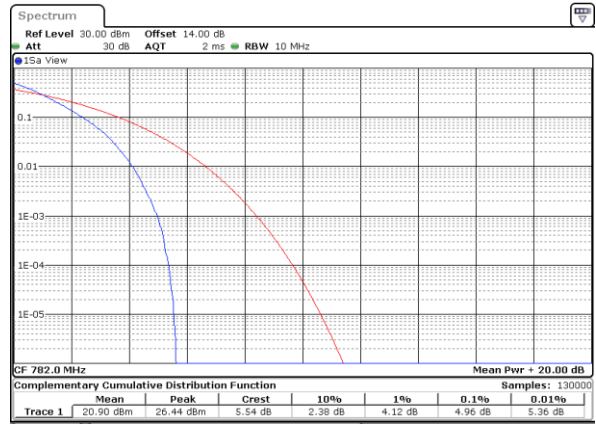
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 2.APR.2022 12:38:21

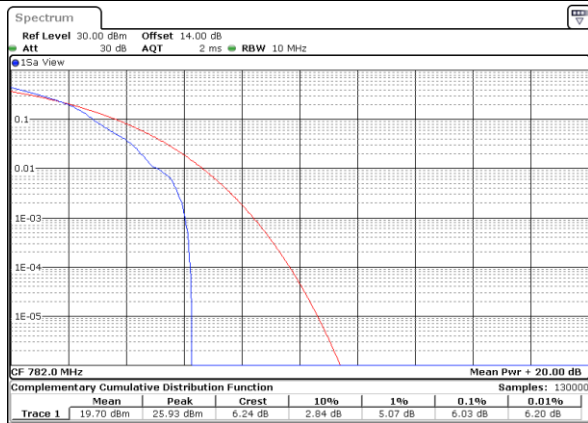
Middle Channel / Full RB



Date: 2.APR.2022 12:38:47

LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 2.APR.2022 12:37:29

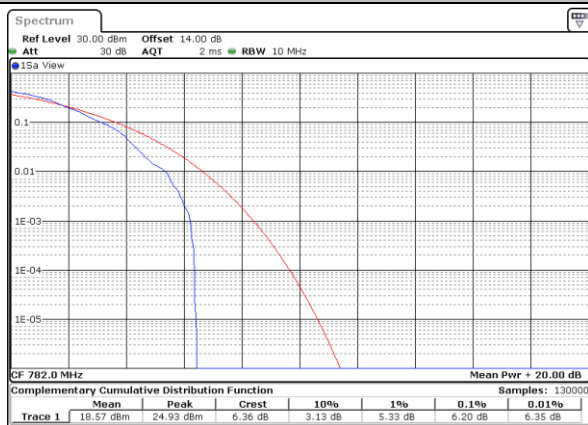
Middle Channel / Full RB



Date: 2.APR.2022 12:37:55

LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 2.APR.2022 12:36:38

Middle Channel / Full RB



Date: 2.APR.2022 12:37:03



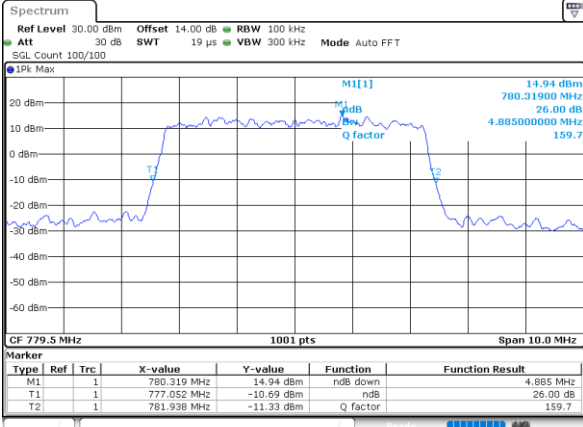
26dB Bandwidth

| Mode | LTE Band 13 : 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 | - | - | - | - | 4.89 | 4.93 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.95 | 4.87 | 9.95 | 9.83 | - | - | - | - |
| Highest CH | - | - | - | - | 5.00 | 4.99 | - | - | - | - | - | - |
| Mode | LTE Band 13 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.93 | - | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.95 | - | 9.77 | - | - | - | - | - |
| Highest CH | - | - | - | - | 4.90 | - | - | - | - | - | - | - |



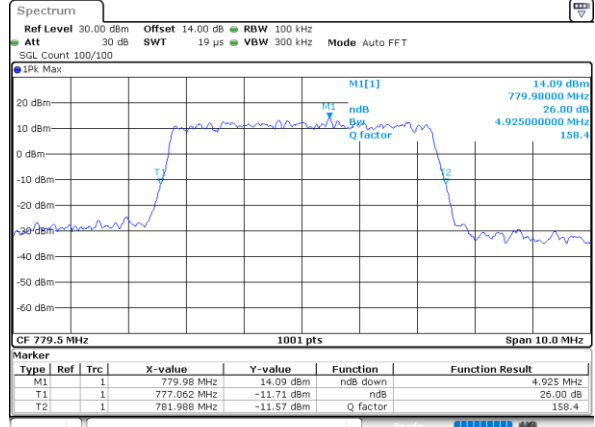
LTE Band 13

Lowest Channel / 5MHz / QPSK



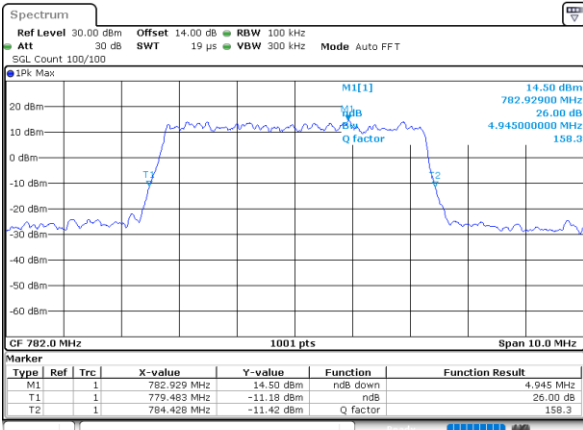
Date: 2.APR.2022 11:34:55

Lowest Channel / 5MHz / 16QAM



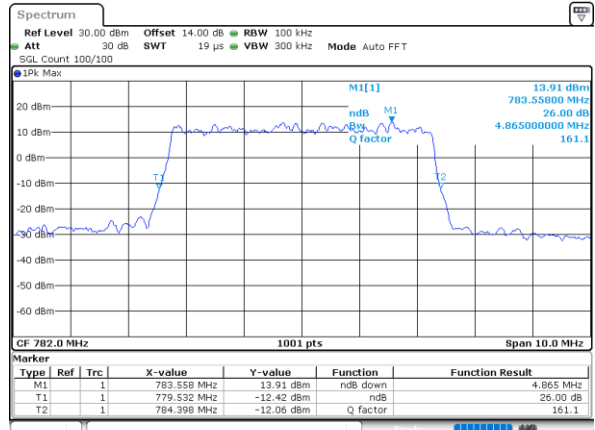
Date: 2.APR.2022 11:34:30

Middle Channel / 5MHz / QPSK



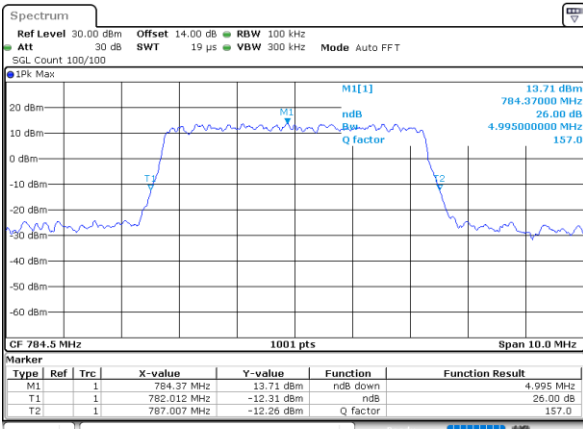
Date: 2.APR.2022 11:48:07

Middle Channel / 5MHz / 16QAM



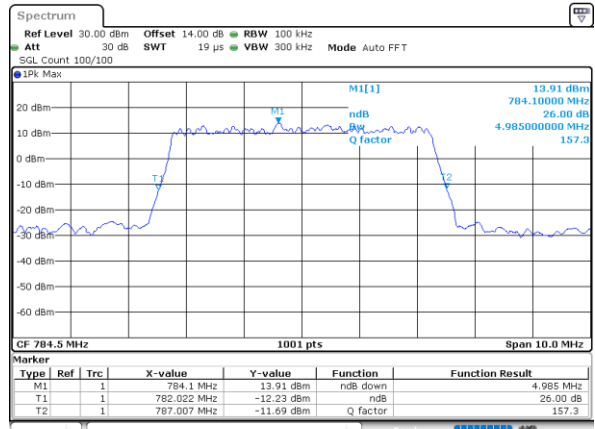
Date: 2.APR.2022 11:48:31

Highest Channel / 5MHz / QPSK



Date: 2.APR.2022 11:50:38

Highest Channel / 5MHz / 16QAM

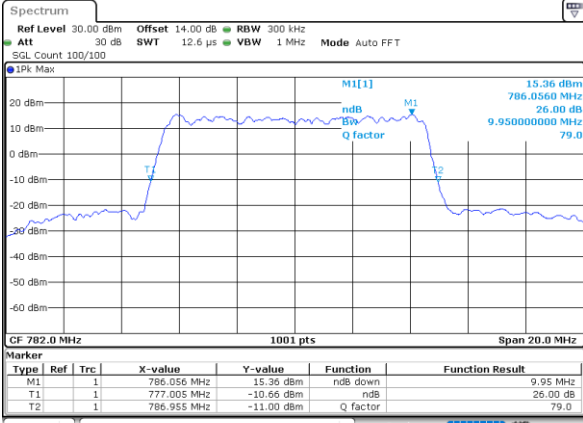


Date: 2.APR.2022 11:50:14



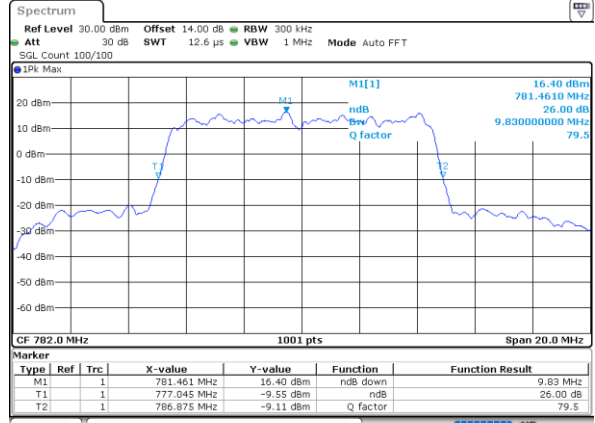
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2.APR.2022 12:13:47

Middle Channel / 10MHz / 16QAM

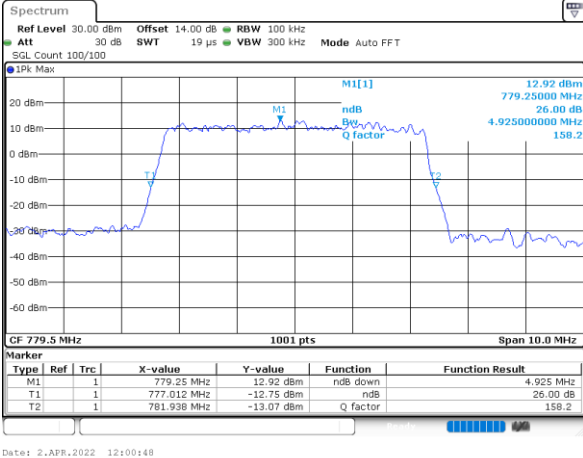


Date: 2.APR.2022 13:32:04



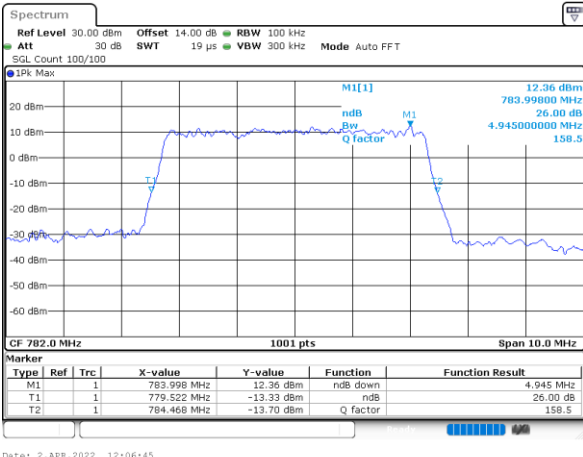
LTE Band 13

Lowest Channel / 5MHz / 64QAM



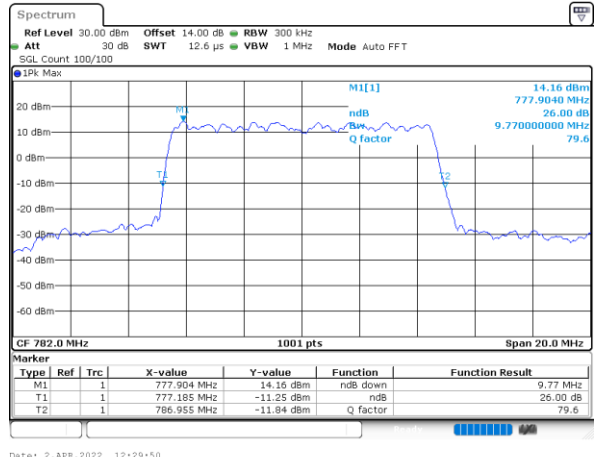
Date: 2.APR.2022 12:00:48

Middle Channel / 5MHz / 64QAM



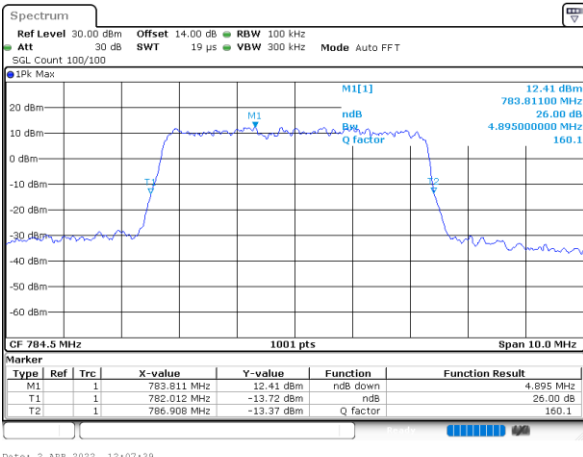
Date: 2.APR.2022 12:06:45

Middle Channel / 10MHz / 64QAM



Date: 2.APR.2022 12:29:50

Highest Channel / 5MHz / 64QAM



Date: 2.APR.2022 12:07:39



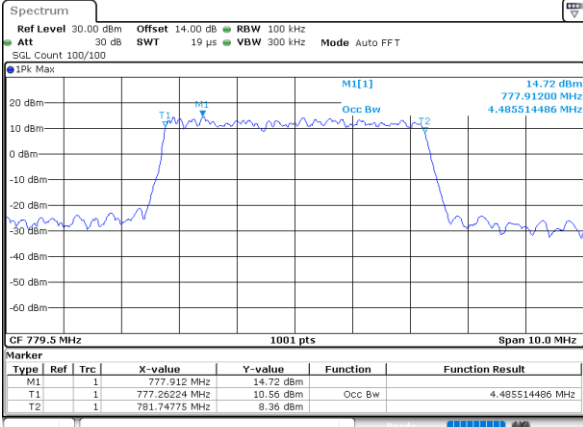
Occupied Bandwidth

| Mode | LTE Band 13 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.49 | 4.50 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.50 | 4.48 | 8.99 | 9.03 | - | - | - | - |
| Highest CH | - | - | - | - | 4.49 | 4.48 | - | - | - | - | - | - |
| Mode | LTE Band 13 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.49 | - | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.49 | - | 9.05 | - | - | - | - | - |
| Highest CH | - | - | - | - | 4.50 | - | - | - | - | - | - | - |



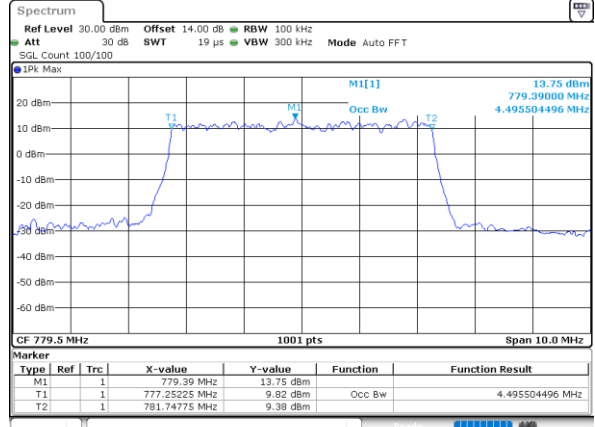
LTE Band 13

Lowest Channel / 5MHz / QPSK



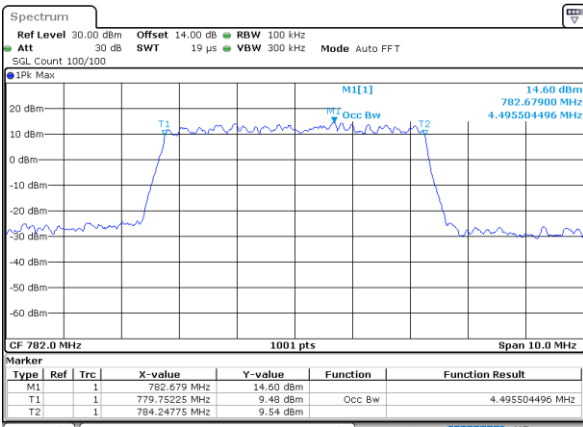
Date: 2.APR.2022 11:33:51

Lowest Channel / 5MHz / 16QAM



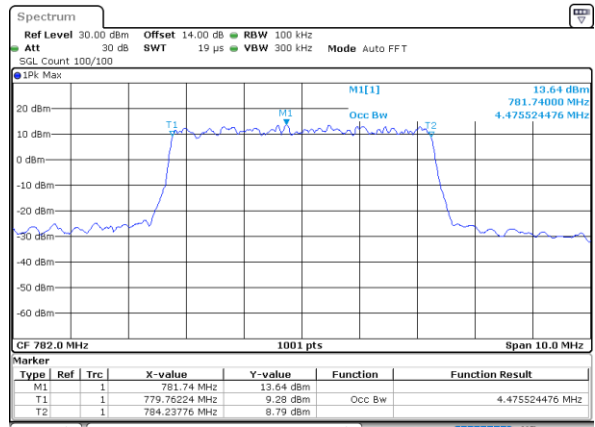
Date: 2.APR.2022 11:34:15

Middle Channel / 5MHz / QPSK



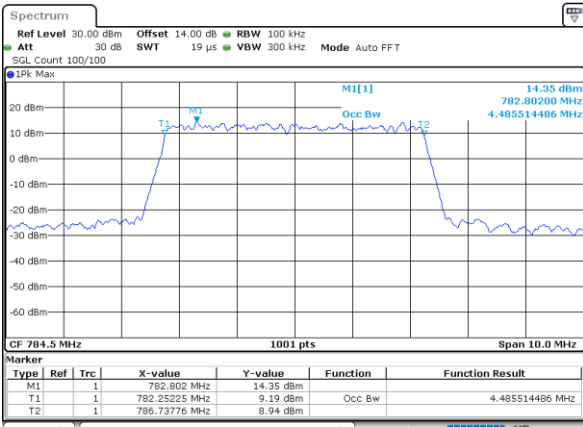
Date: 2.APR.2022 11:49:10

Middle Channel / 5MHz / 16QAM



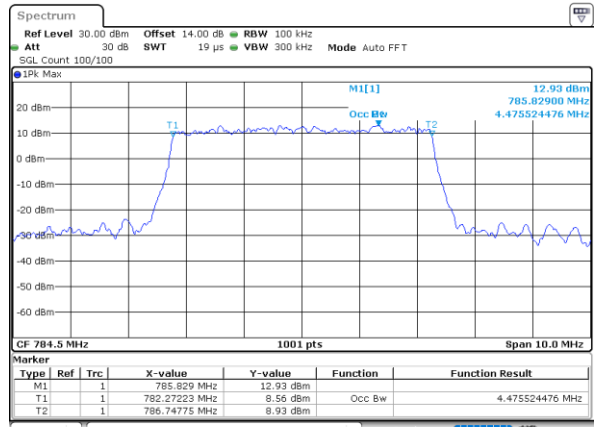
Date: 2.APR.2022 11:48:46

Highest Channel / 5MHz / QPSK



Date: 2.APR.2022 11:49:34

Highest Channel / 5MHz / 16QAM

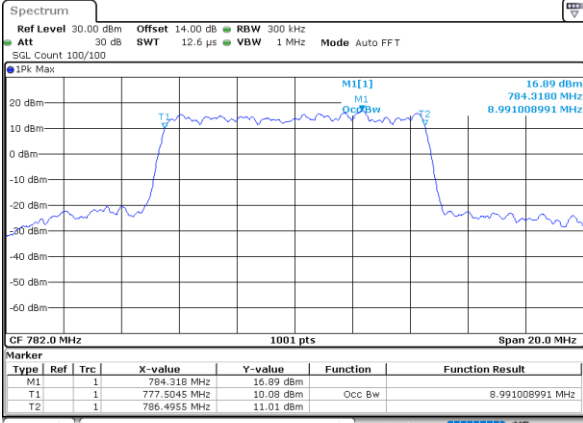


Date: 2.APR.2022 13:30:58



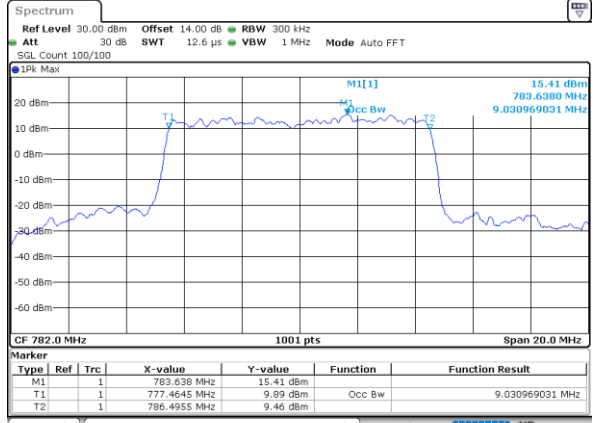
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 2.APR.2022 12:12:44

Middle Channel / 10MHz / 16QAM

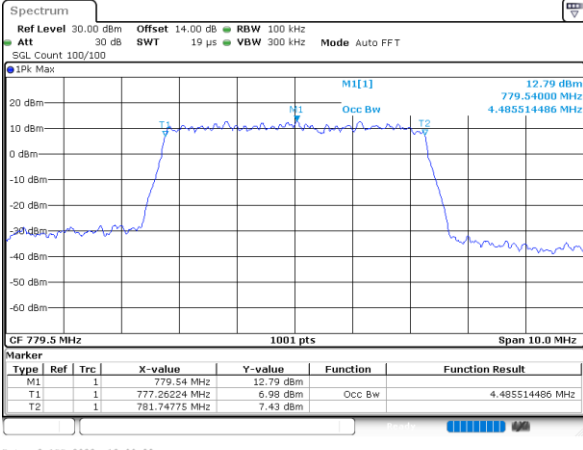


Date: 2.APR.2022 12:13:08



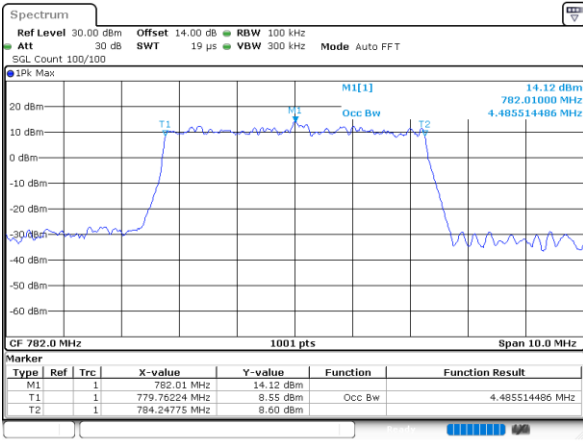
LTE Band 13

Lowest Channel / 5MHz / 64QAM



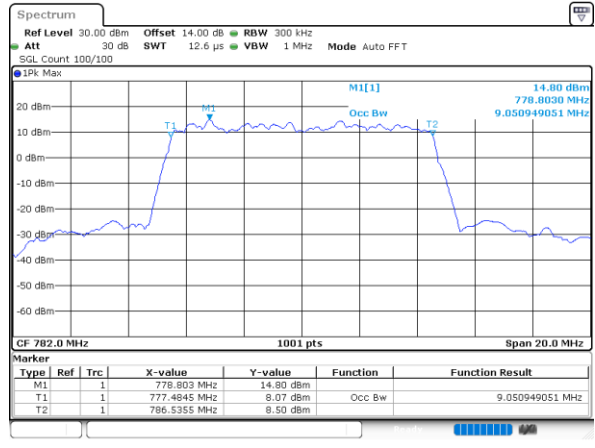
Date: 2.APR.2022 12:10:133

Middle Channel / 5MHz / 64QAM



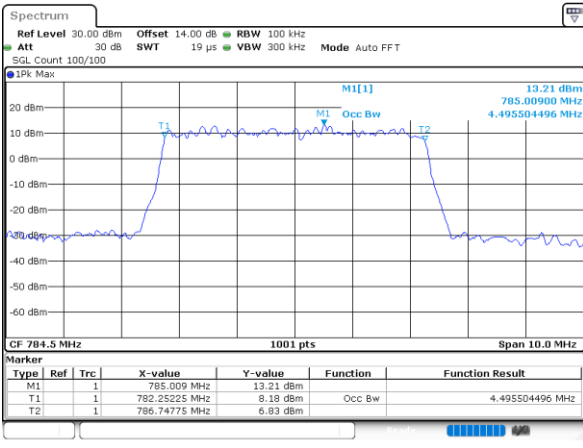
Date: 2.APR.2022 12:10:100

Middle Channel / 10MHz / 64QAM



Date: 2.APR.2022 12:29:56

Highest Channel / 5MHz / 64QAM



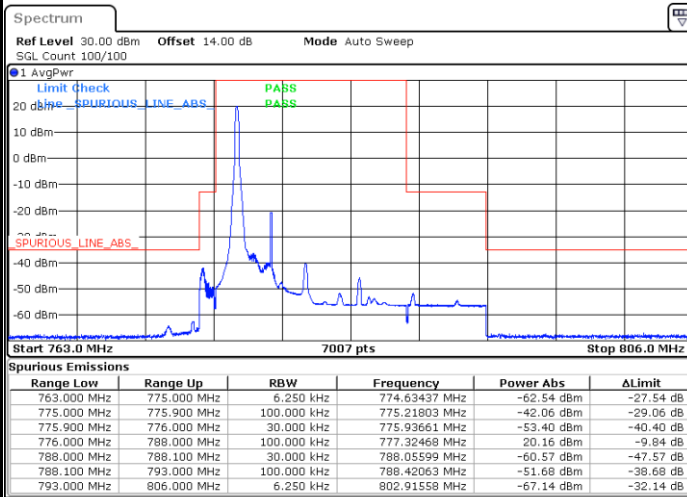
Date: 2.APR.2022 12:10:124



Conducted Band Edge

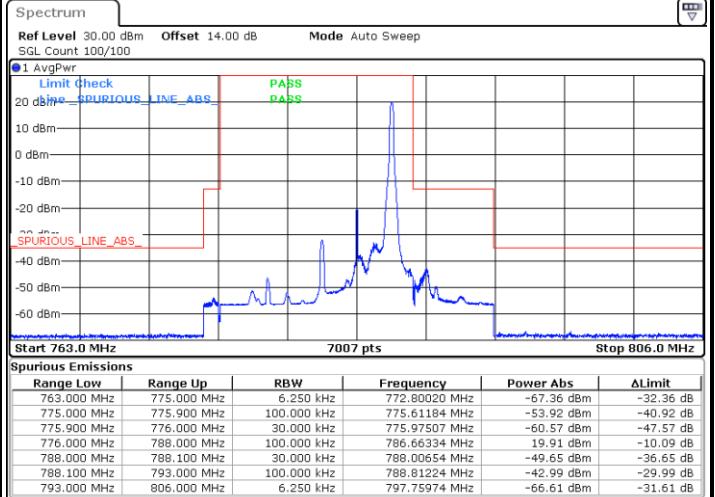
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



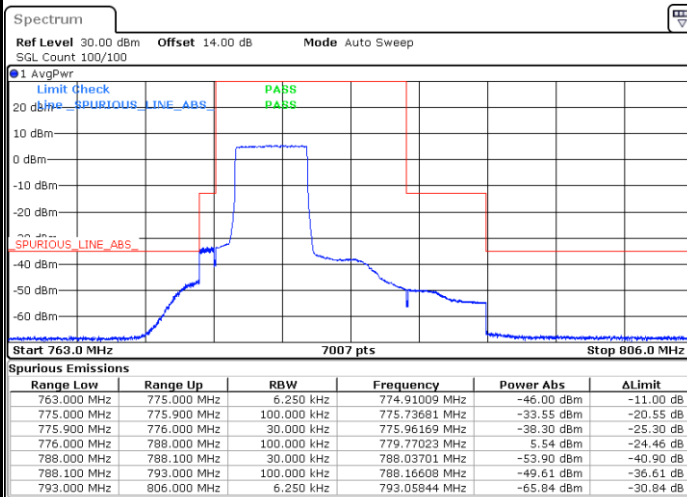
Date: 2.APR.2022 11:42:18

Highest Band Edge / 1 RB



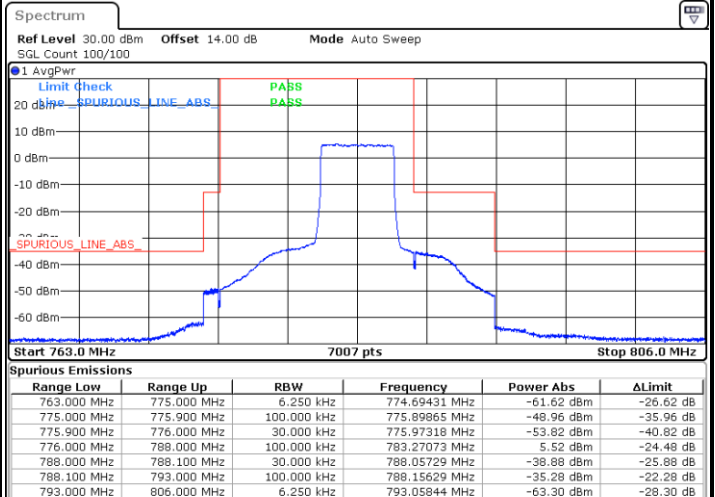
Date: 2.APR.2022 11:58:02

Lowest Band Edge / Full RB



Date: 2.APR.2022 11:36:38

Highest Band Edge / Full RB



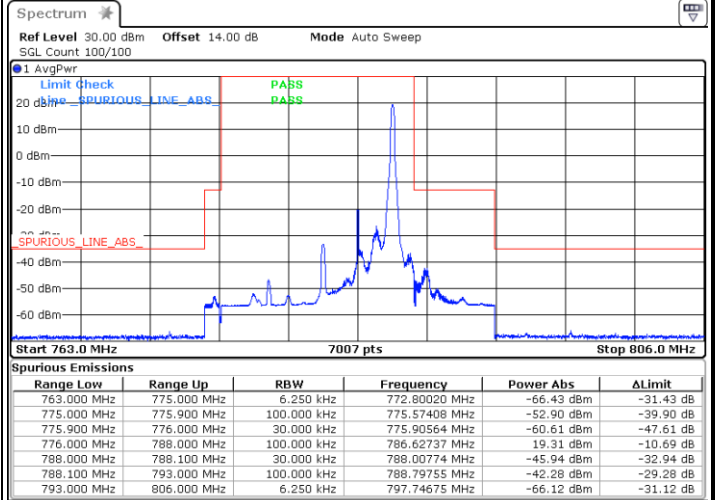
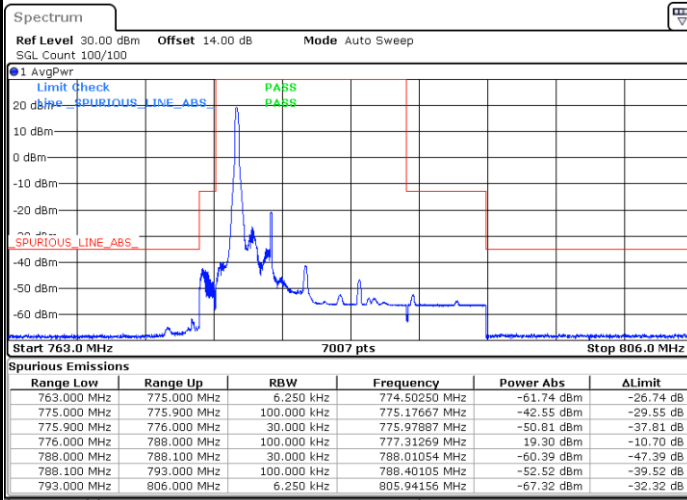
Date: 2.APR.2022 11:52:22



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

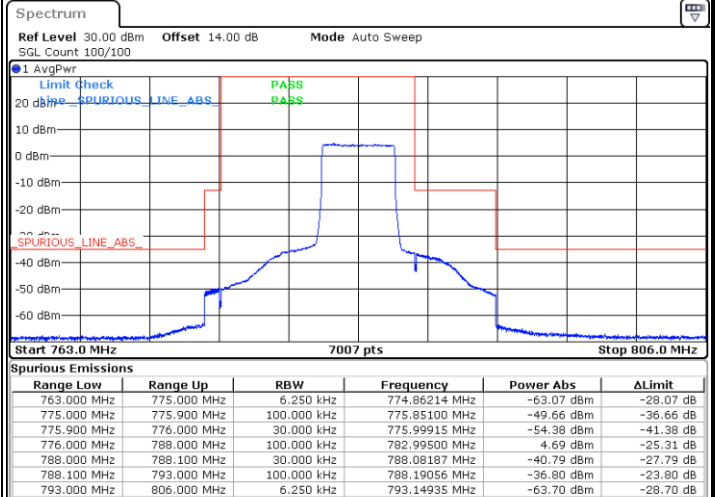
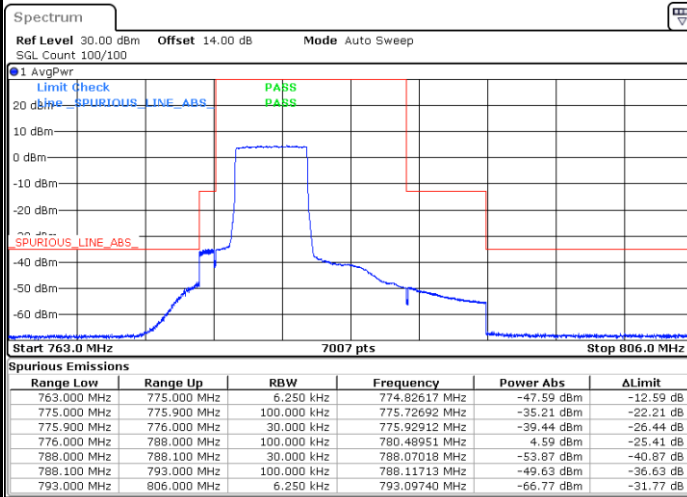


Date: 2.APR.2022 11:40:25

Date: 2.APR.2022 13:30:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



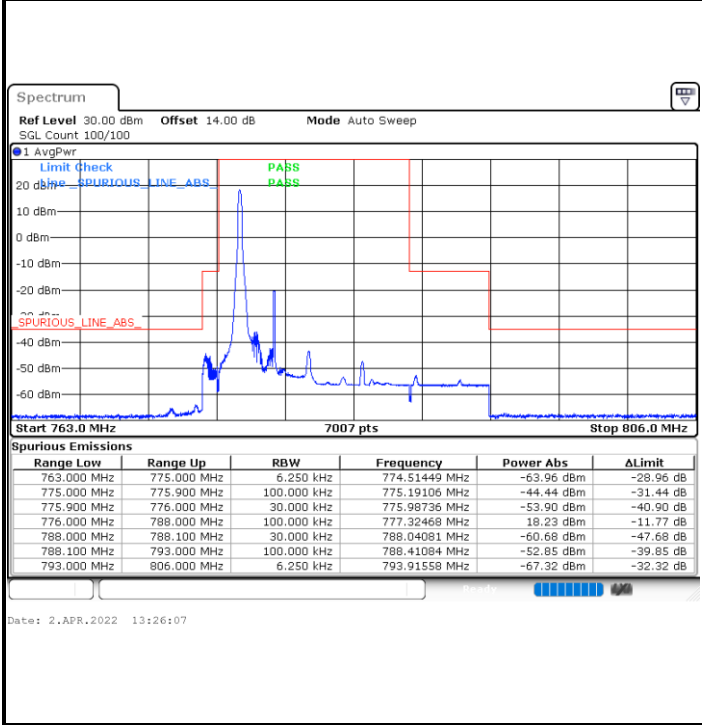
Date: 2.APR.2022 11:38:13

Date: 2.APR.2022 11:54:15

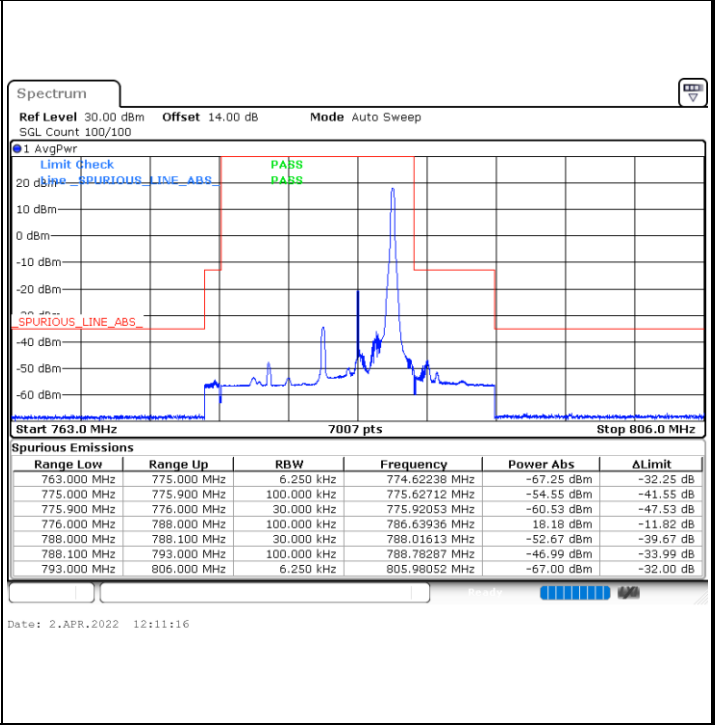


LTE Band 13 / 5MHz / 64QAM

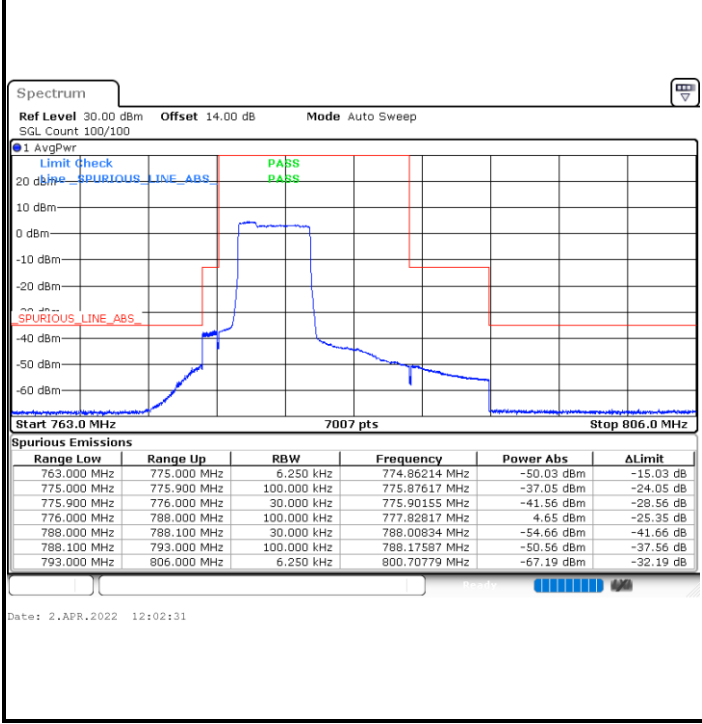
Lowest Band Edge / 1 RB



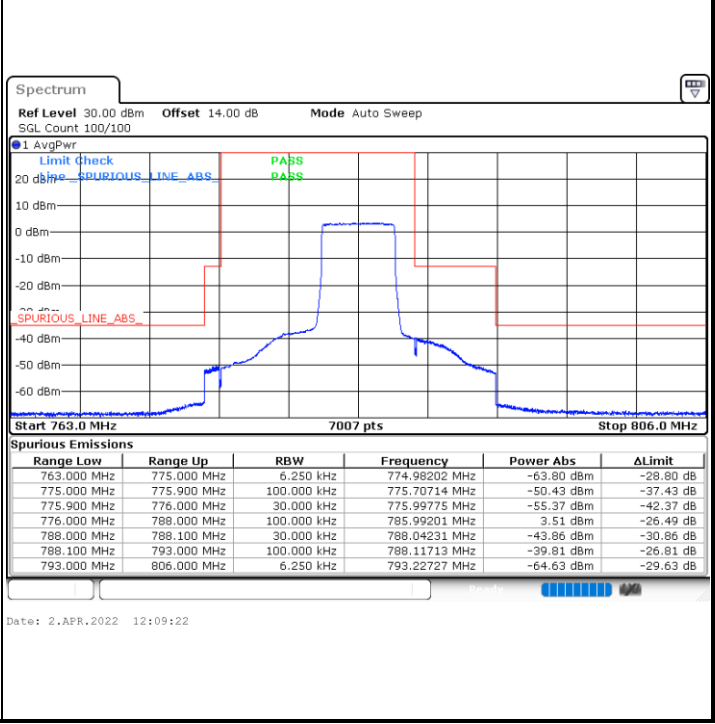
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



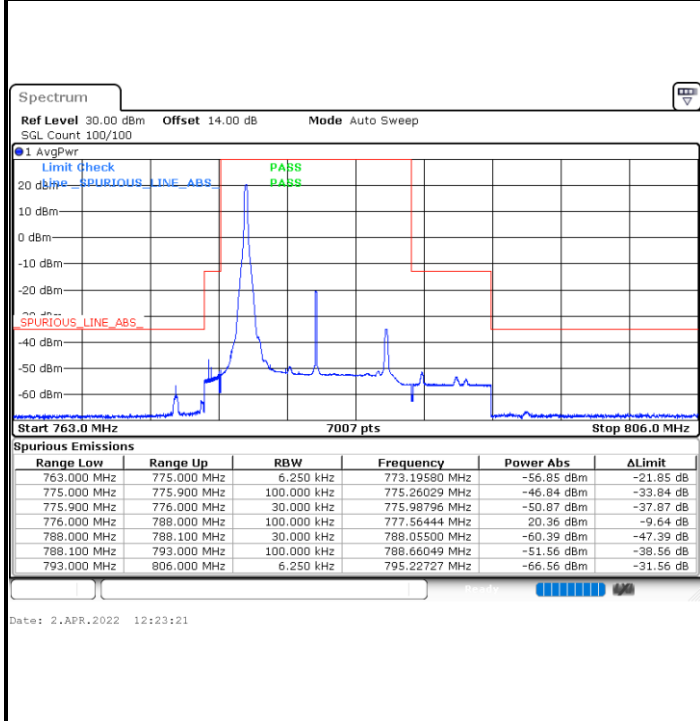
Highest Band Edge / Full RB



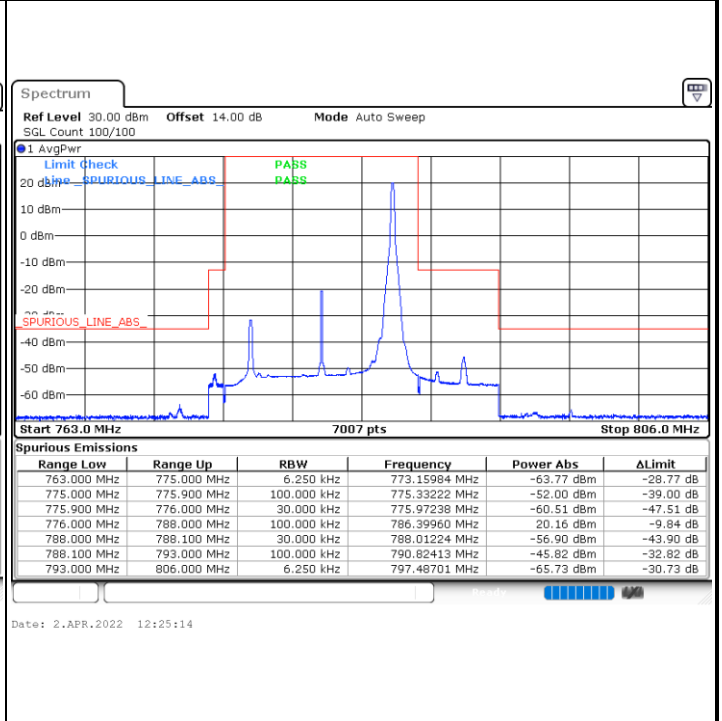


LTE Band 13 / 10MHz / QPSK

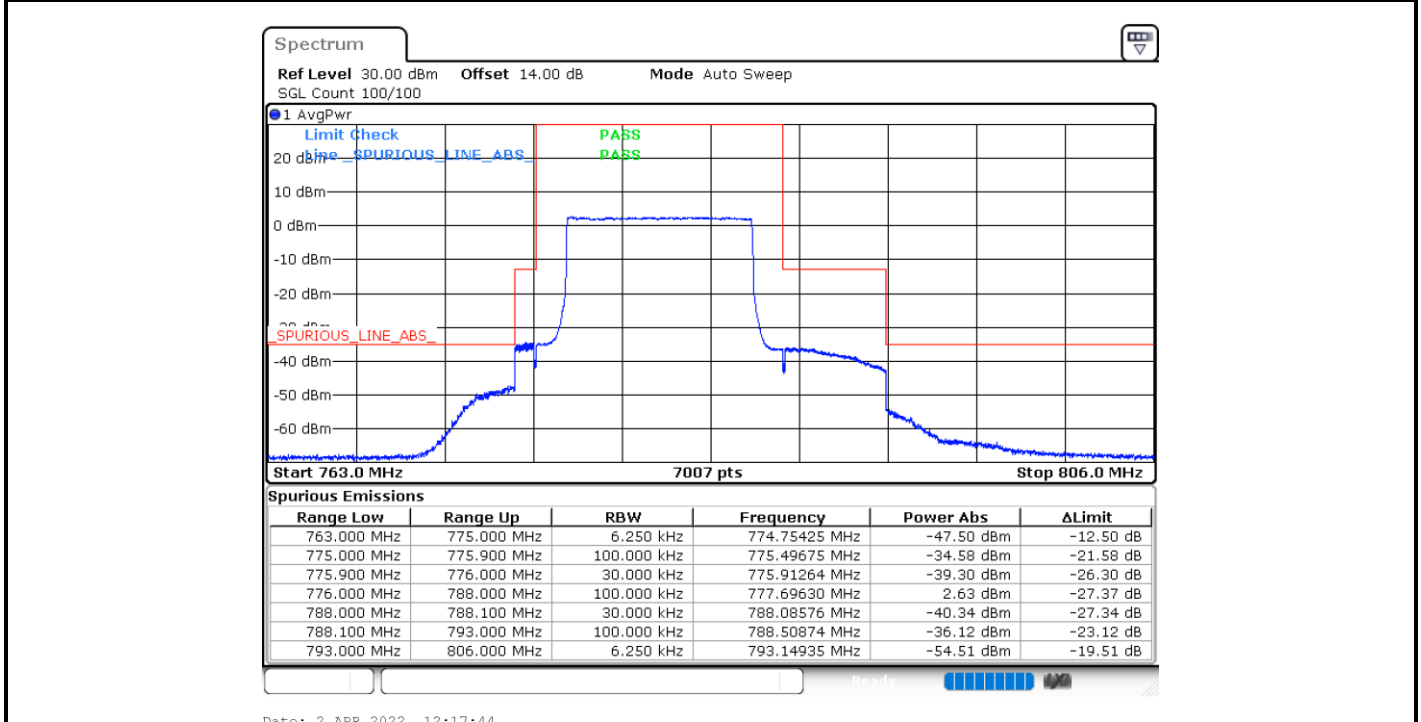
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



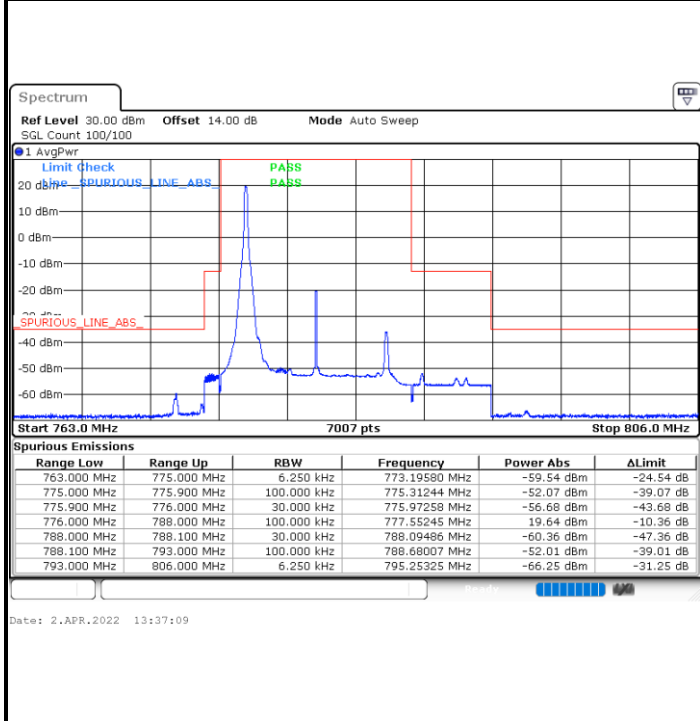
Band Edge / Full RB



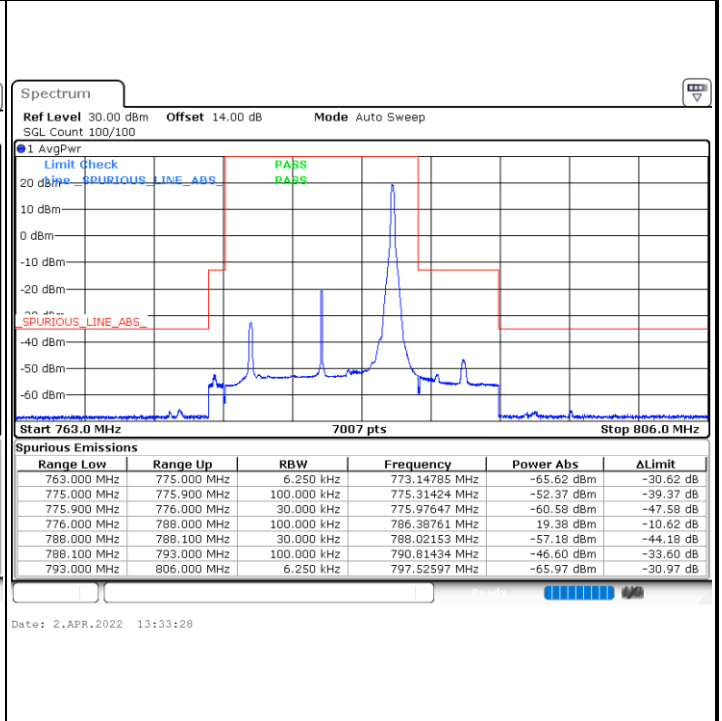


LTE Band 13 / 10MHz / 16QAM

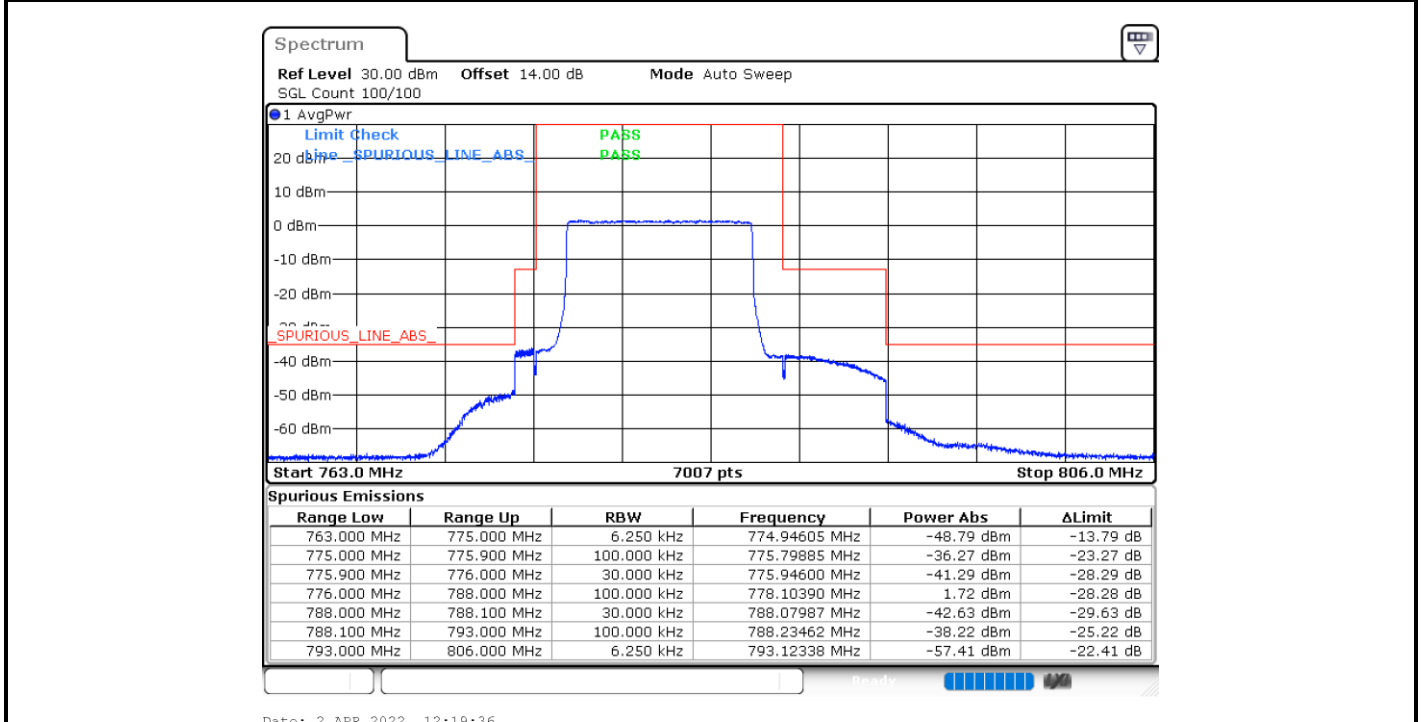
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



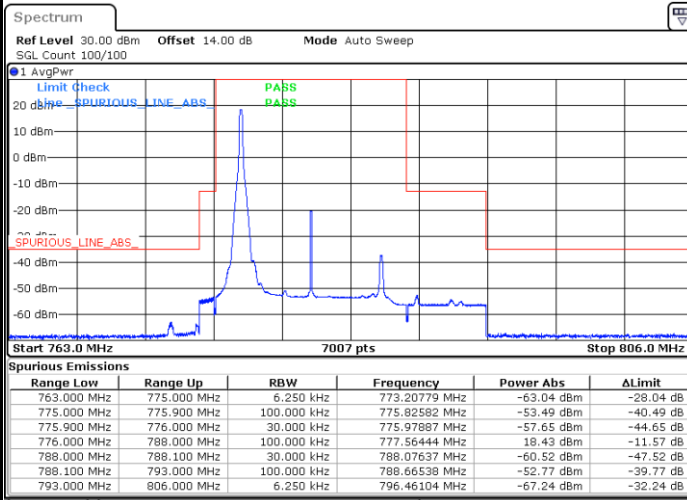
Band Edge / Full RB





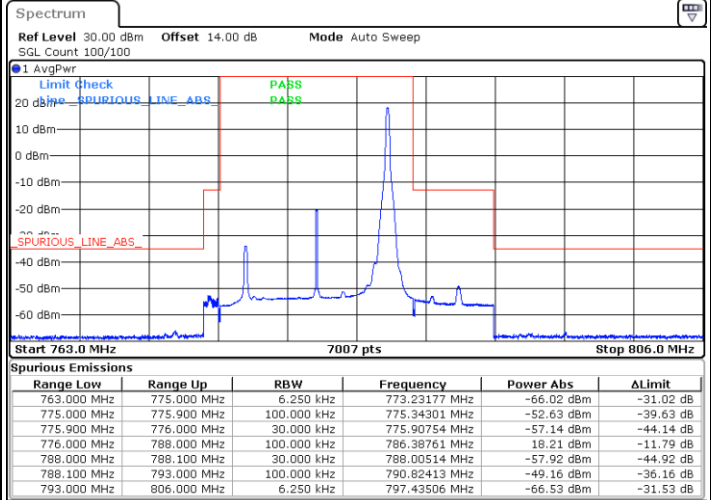
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



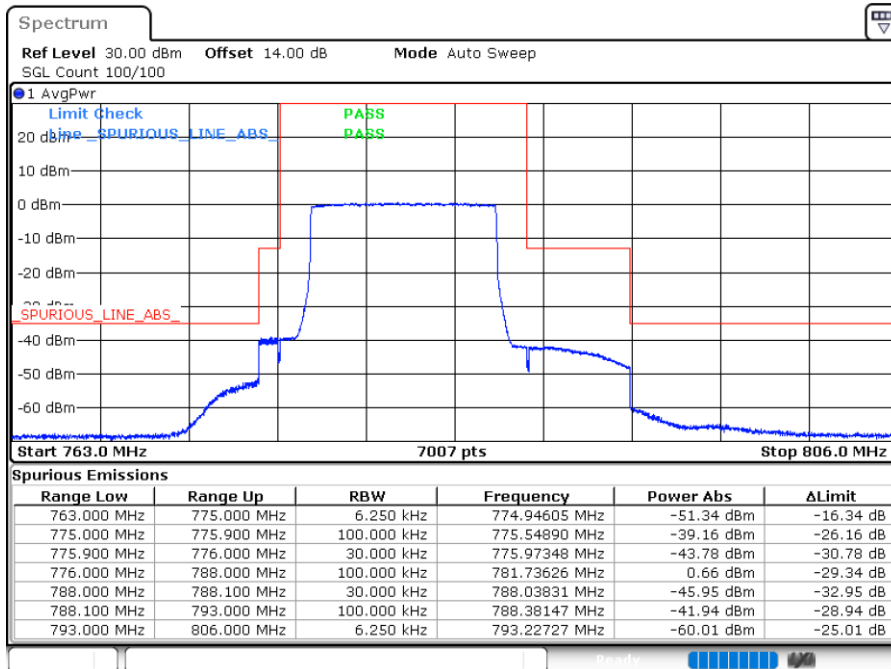
Date: 2.APR.2022 12:33:26

Highest Band Edge / 1 RB



Date: 2.APR.2022 12:35:19

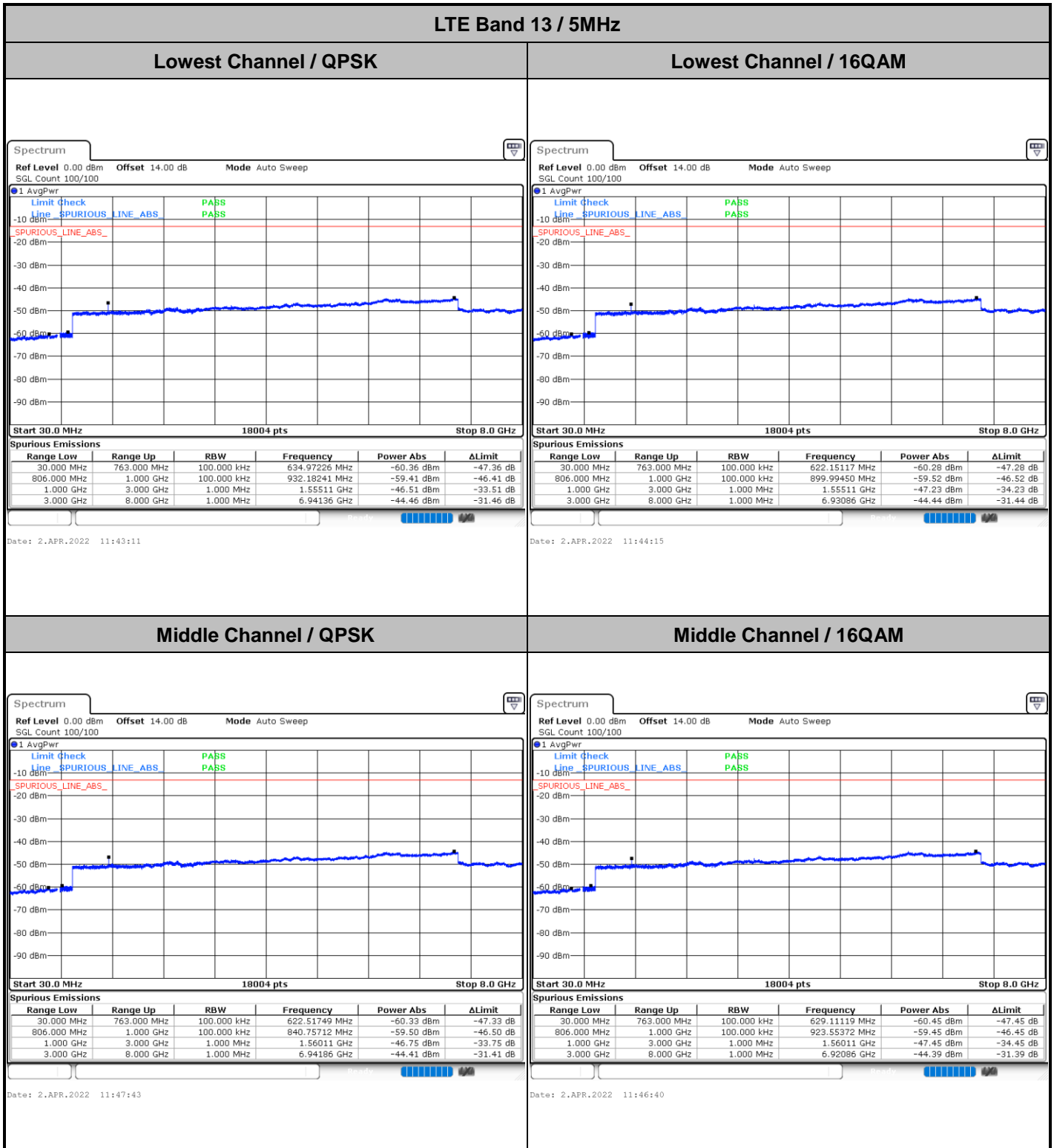
Band Edge / Full RB



Date: 2.APR.2022 12:31:34



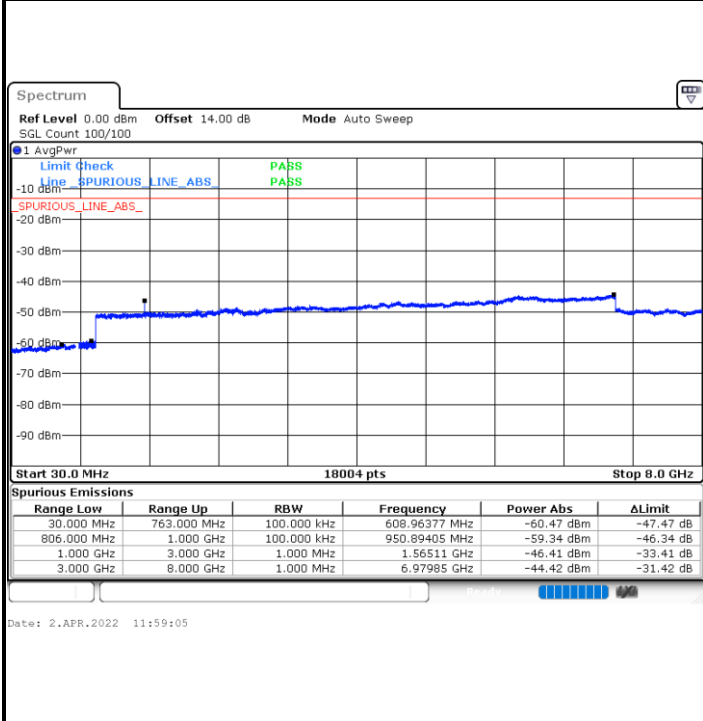
Conducted Spurious Emission



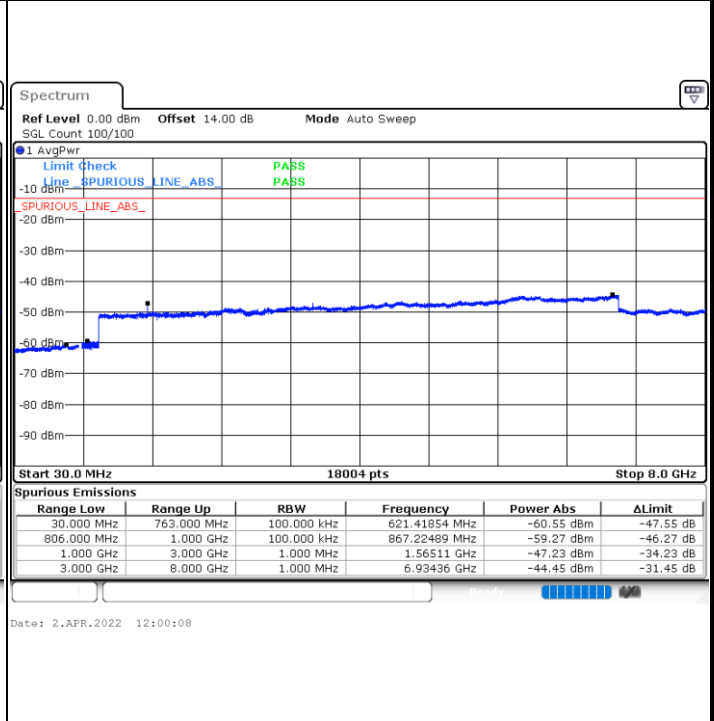


LTE Band 13 / 5MHz

Highest Channel / QPSK

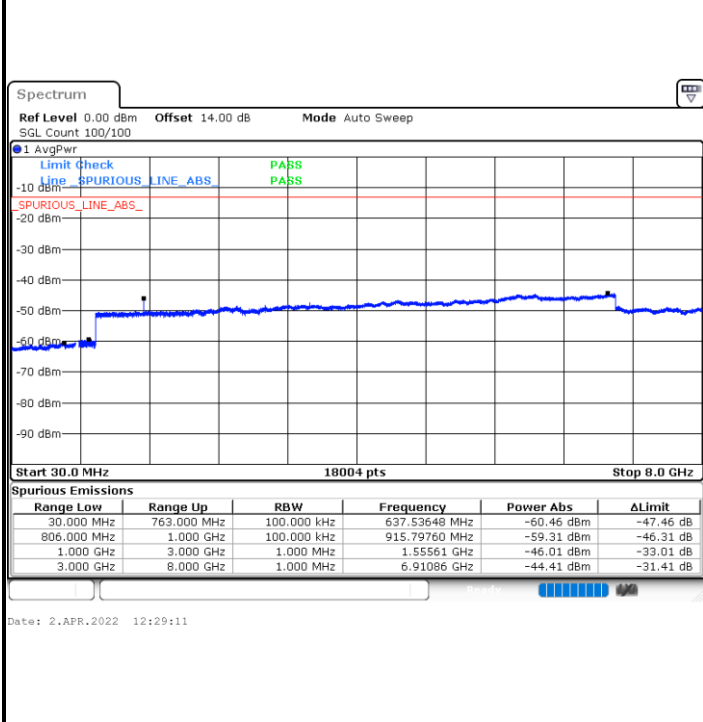


Highest Channel / 16QAM

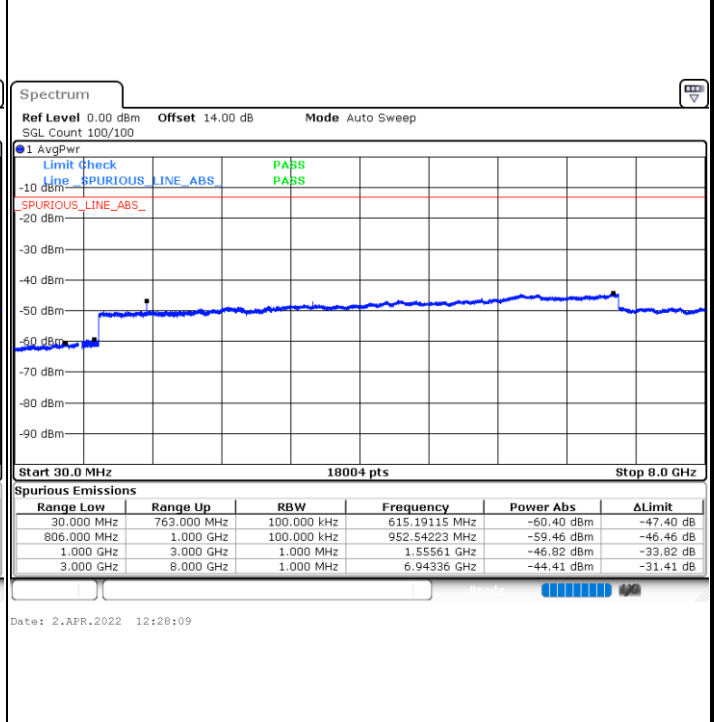


LTE Band 13 / 10MHz

Middle Channel / QPSK



Middle Channel / 16QAM

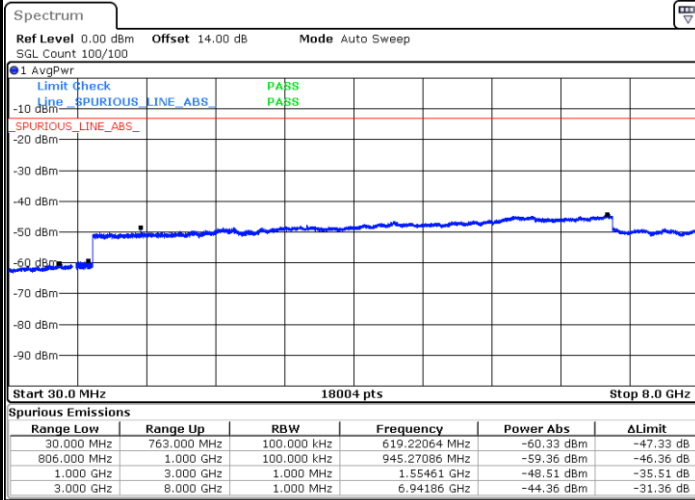




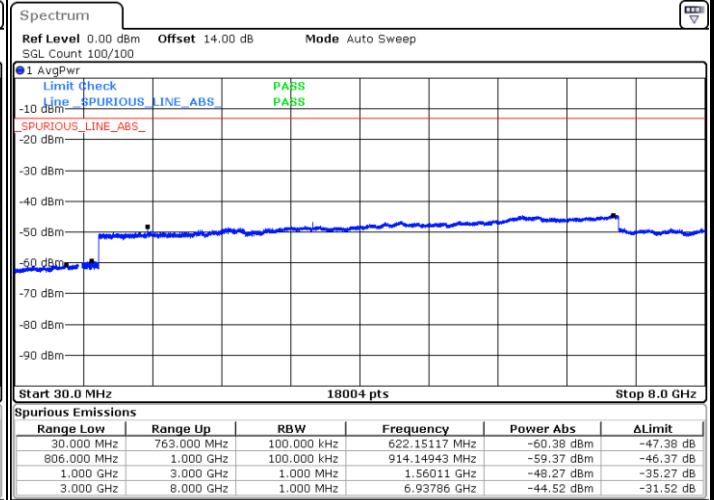
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

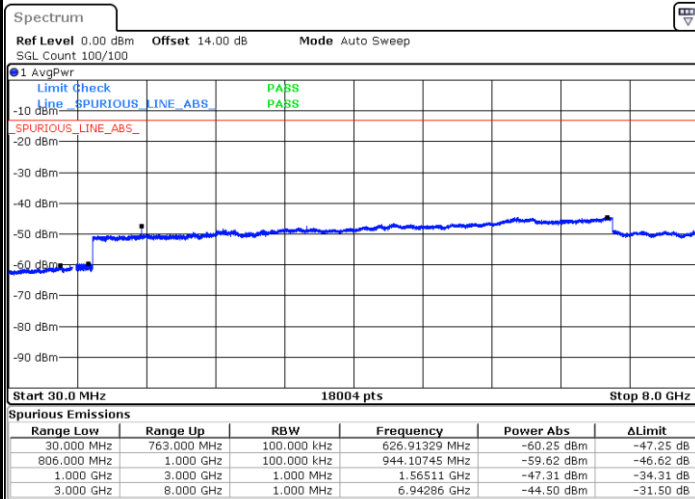


Date: 2.APR.2022 12:05:18



Date: 2.APR.2022 12:06:21

Highest Channel / 64QAM

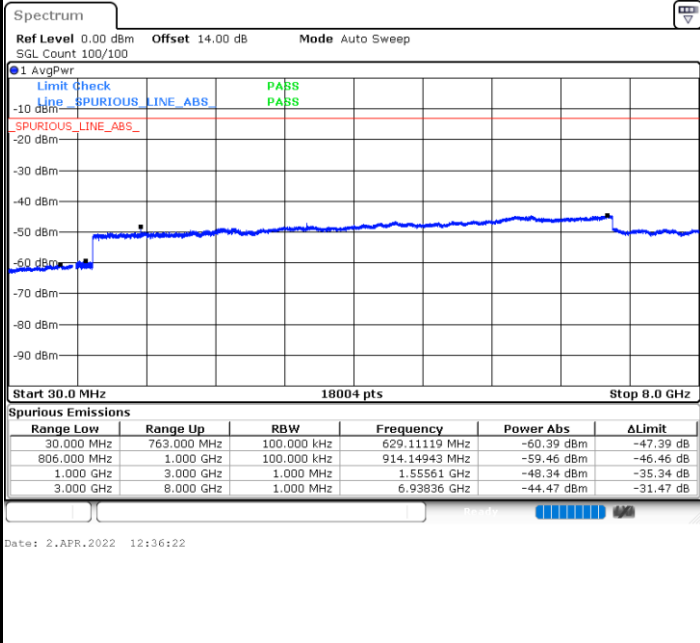


Date: 2.APR.2022 12:12:19



LTE Band 13 / 10MHz

Middle Channel / 64QAM





Frequency Stability

| Test Conditions | | LTE Band 13 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0090 | PASS |
| 40 | Normal Voltage | 0.0087 | |
| 30 | Normal Voltage | 0.0081 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0026 | |
| 0 | Normal Voltage | 0.0017 | |
| -10 | Normal Voltage | 0.0023 | |
| -20 | Normal Voltage | 0.0033 | |
| -30 | Normal Voltage | 0.0006 | |
| 20 | Maximum Voltage | 0.0004 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0019 | |

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

Peak-to-Average Ratio

| Mode | LTE Band 26 / 15MHz | | | | |
|------------|---------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 4.64 | 5.01 | 5.57 | 5.88 | PASS |
| Middle CH | 4.35 | 5.19 | 5.39 | 6.00 | |
| Highest CH | 4.67 | 5.25 | 5.77 | 6.03 | |
| Mode | LTE Band 26 / 15MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 5.80 | 6.32 | - | - | PASS |
| Middle CH | 6.17 | 6.46 | - | - | |
| Highest CH | 6.20 | 6.43 | - | - | |