

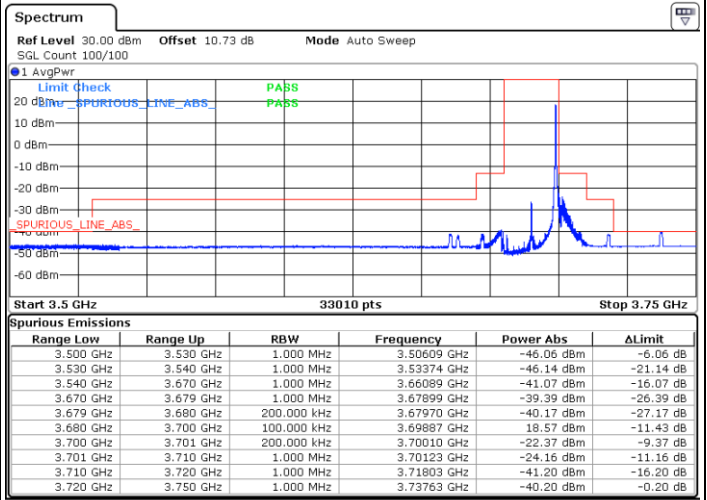
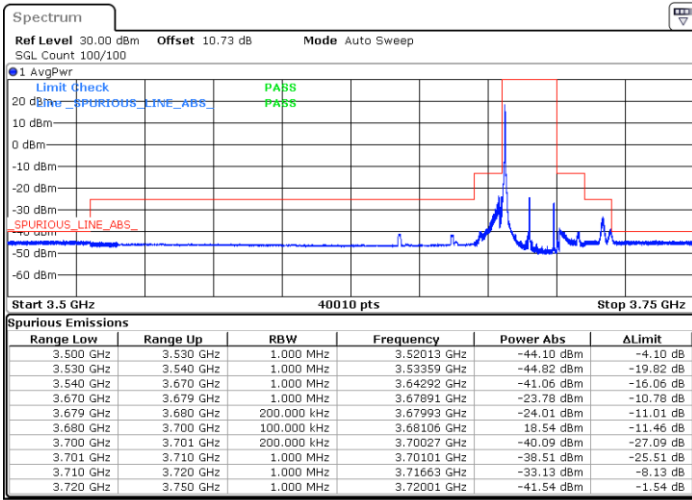


LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

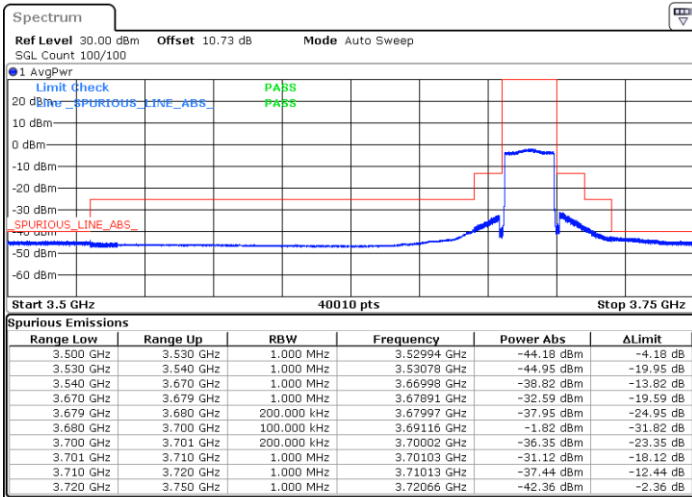


Date: 8. JAN. 2023 04:58:54

Date: 8. JAN. 2023 13:01:10

Highest Channel / FullIRB

N/A



Date: 8. JAN. 2023 05:09:01

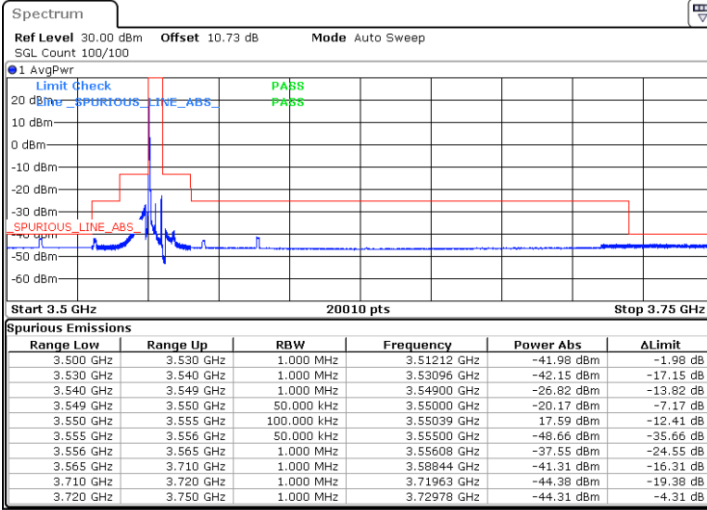


LTE Band 48 / 5MHz

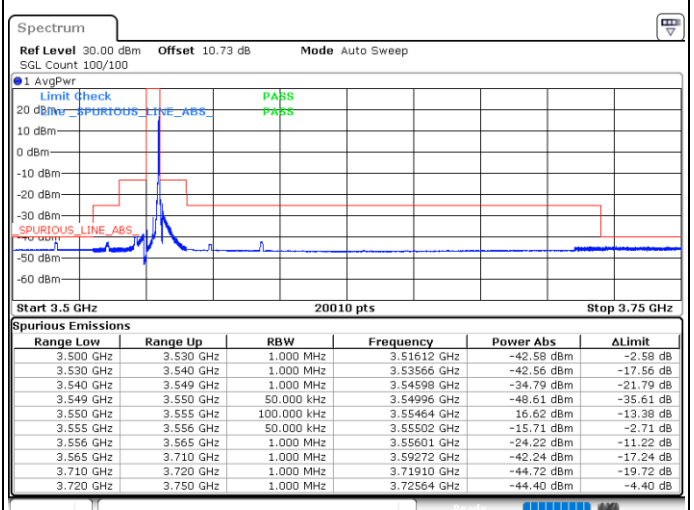
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



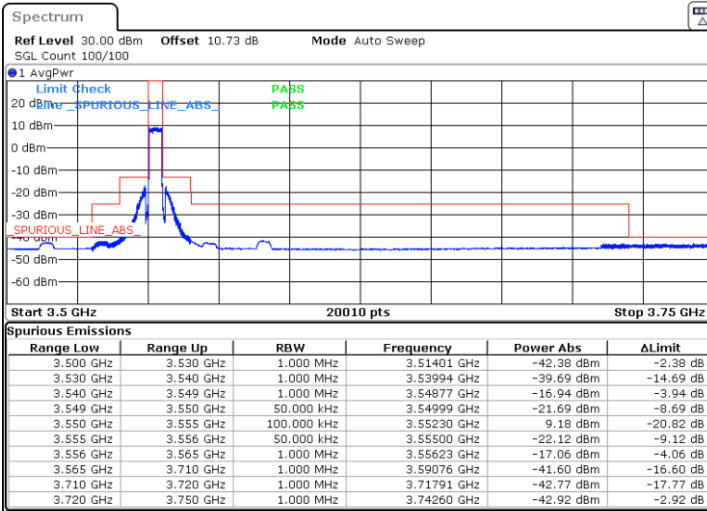
Date: 8. JAN. 2023 01:22:33



Date: 8. JAN. 2023 01:24:58

Lowest Channel / FullRB

N/A



Date: 7. JAN. 2023 12:53:13

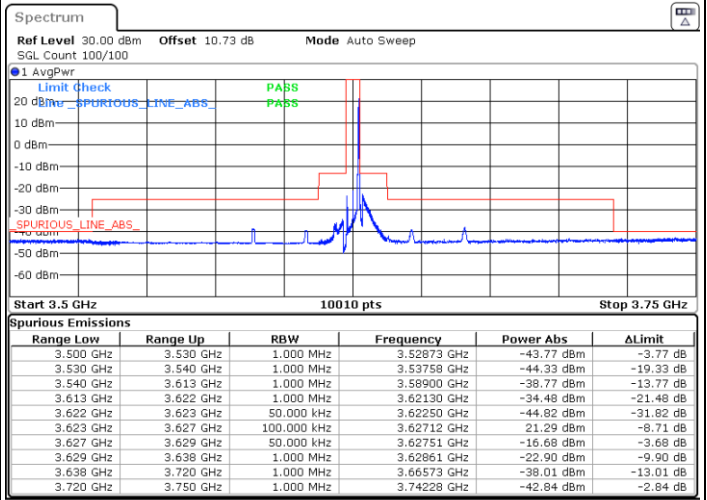
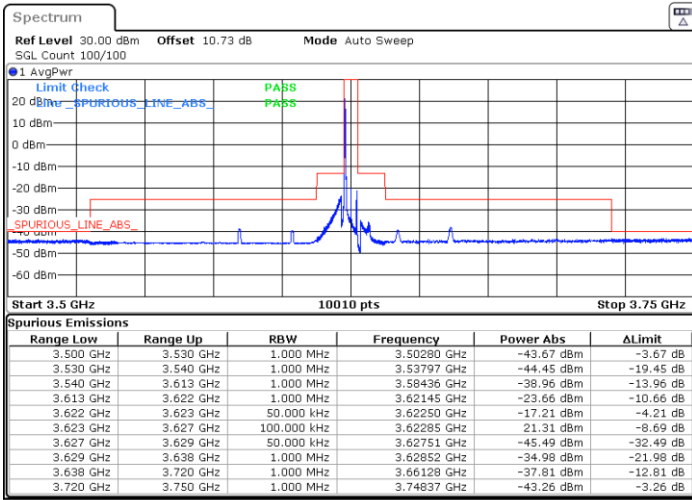


LTE Band 48 / 5MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

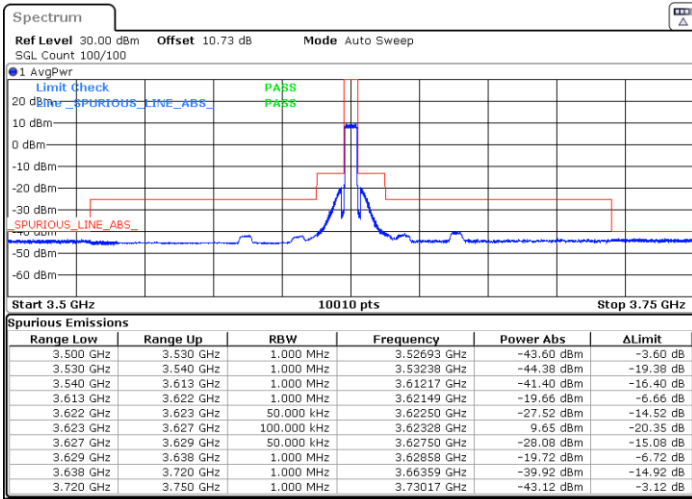


Date: 7. JAN. 2023 12:58:15

Date: 7. JAN. 2023 12:59:55

Middle Channel / FullIRB

N/A



Date: 7. JAN. 2023 13:08:16

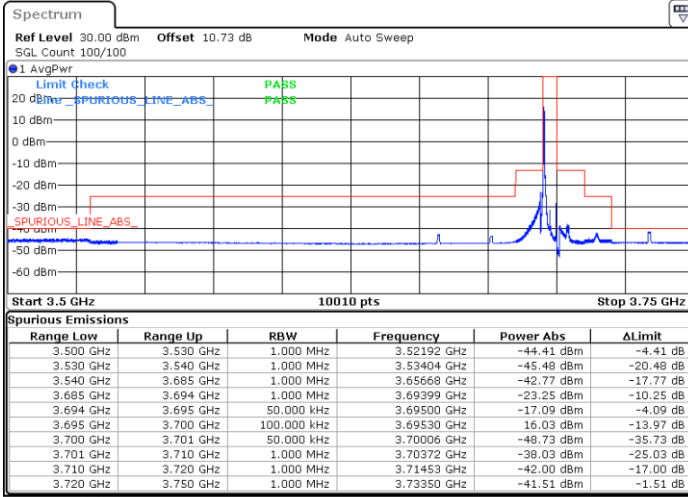


LTE Band 48 / 5MHz

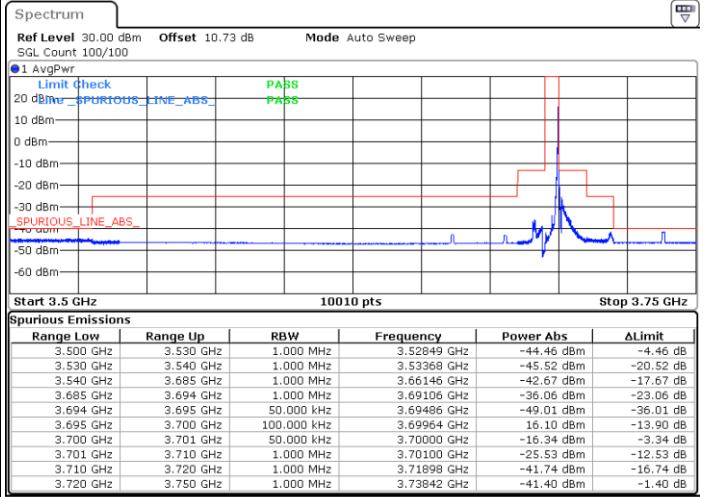
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



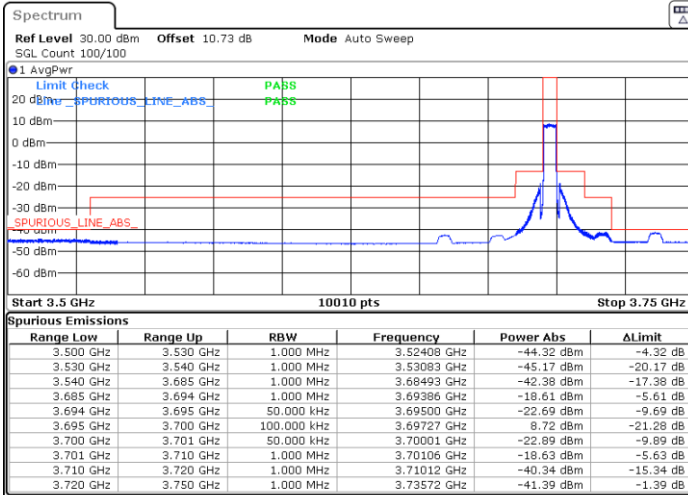
Date: 8. JAN. 2023 01:31:41



Date: 8. JAN. 2023 01:33:03

Highest Channel / FullIRB

N/A



Date: 7. JAN. 2023 13:23:24

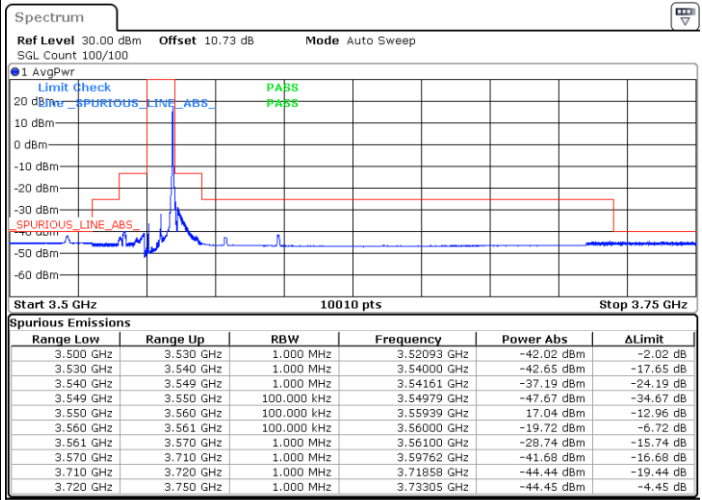
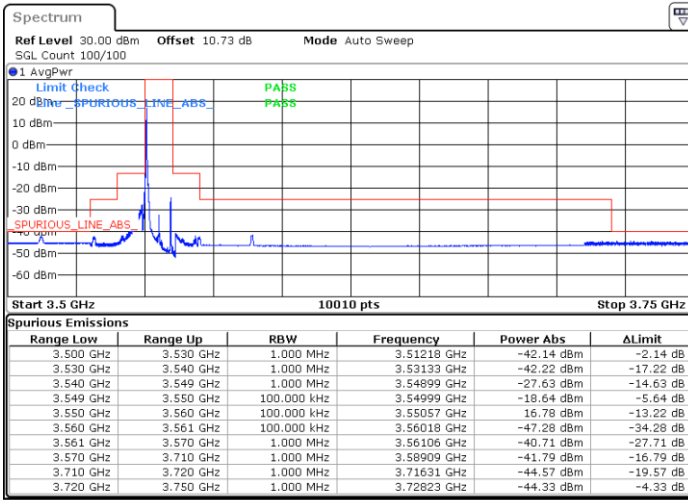


LTE Band 48 / 10MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

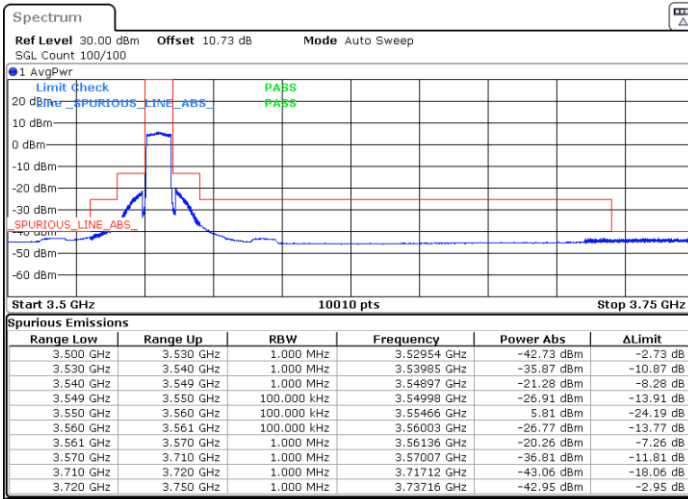


Date: 8. JAN. 2023 03:25:24

Date: 8. JAN. 2023 03:26:42

Lowest Channel / FullIRB

N/A



Date: 7. JAN. 2023 13:38:33

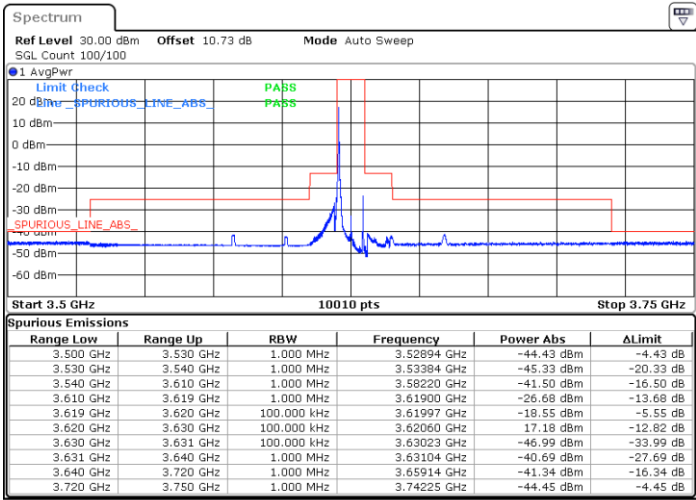


LTE Band 48 / 10MHz

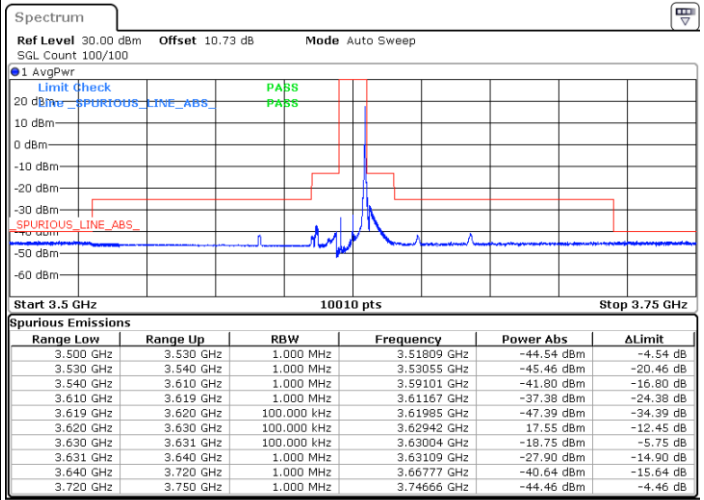
64QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



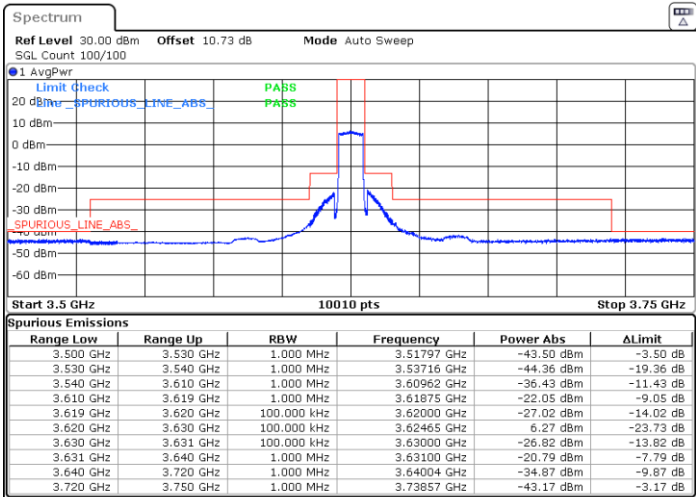
Date: 8.JAN.2023 03:47:03



Date: 8.JAN.2023 03:47:56

Middle Channel / FullIRB

N/A



Date: 7.JAN.2023 13:50:16

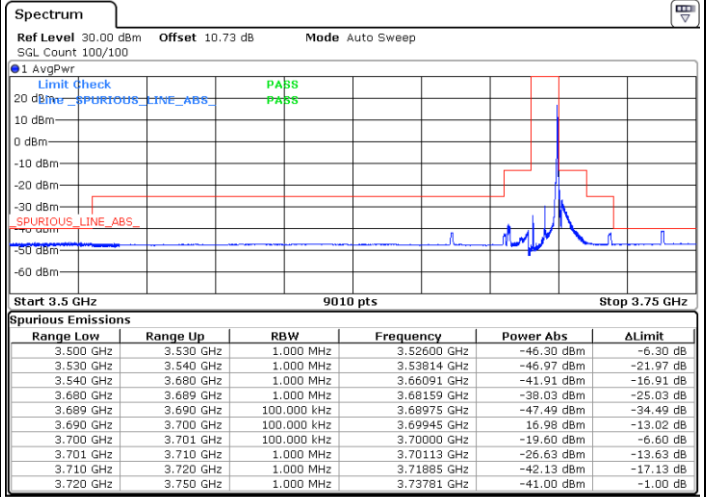
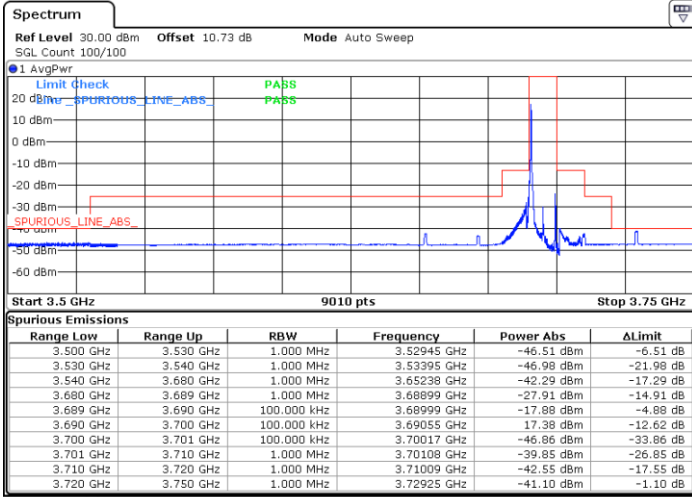


LTE Band 48 / 10MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

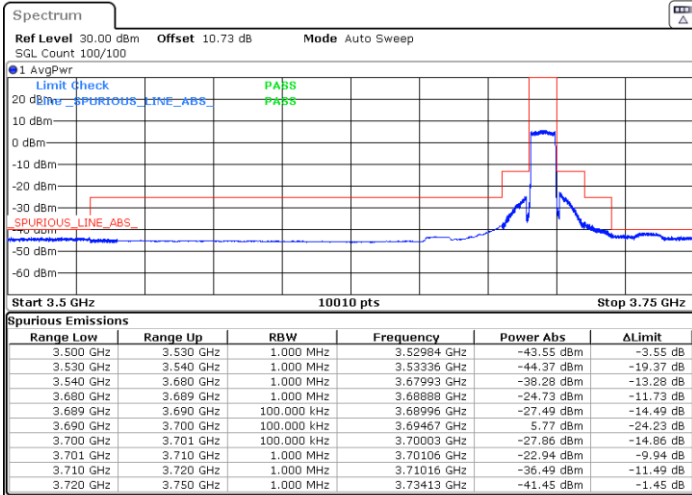


Date: 8. JAN. 2023 14:06:17

Date: 8. JAN. 2023 13:53:07

Highest Channel / FullIRB

N/A



Date: 7. JAN. 2023 14:08:46

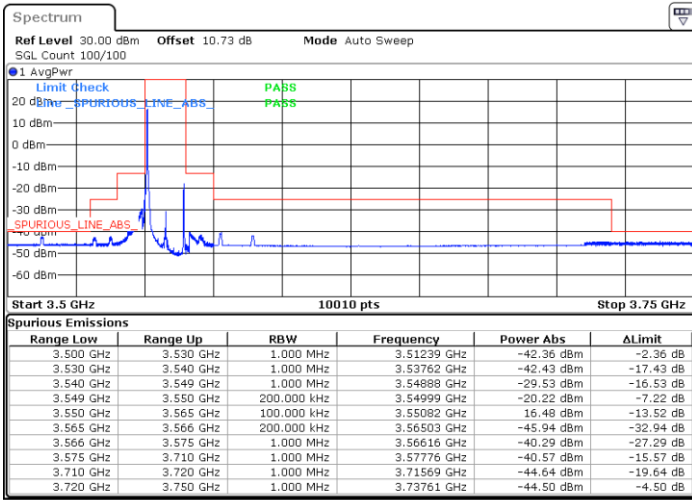


LTE Band 48 / 15MHz

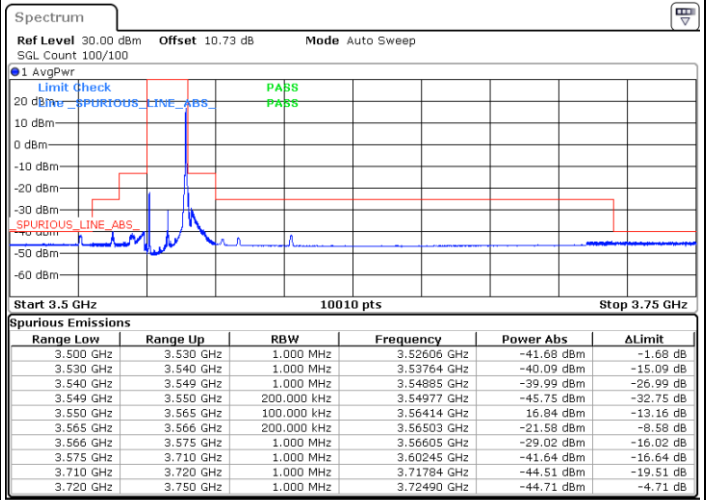
64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



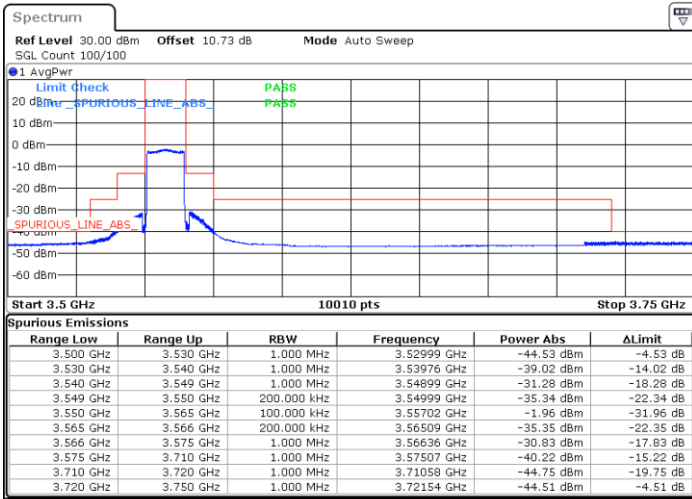
Date: 8. JAN. 2023 04:12:50



Date: 8. JAN. 2023 04:13:58

Lowest Channel / FullIRB

N/A



Date: 8. JAN. 2023 04:22:28

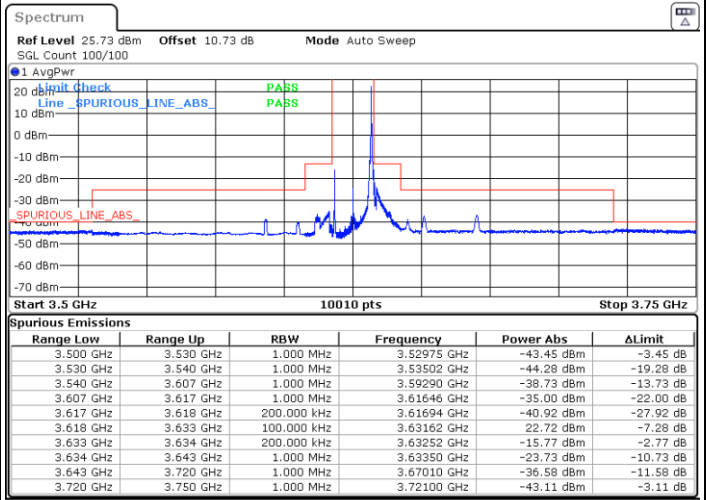
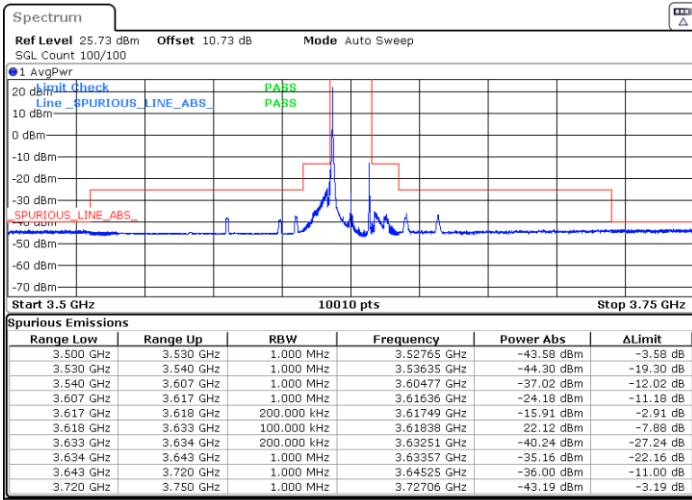


LTE Band 48 / 15MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

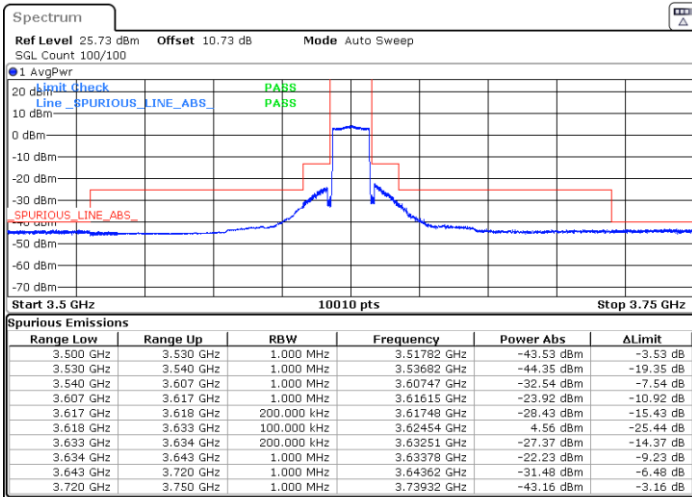


Date: 7. JAN. 2023 15:38:03

Date: 7. JAN. 2023 15:46:26

Middle Channel / FullIRB

N/A



Date: 7. JAN. 2023 15:36:23

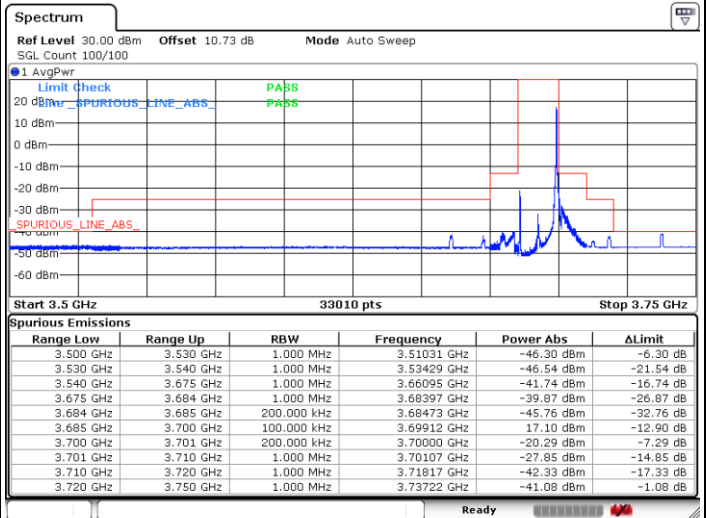
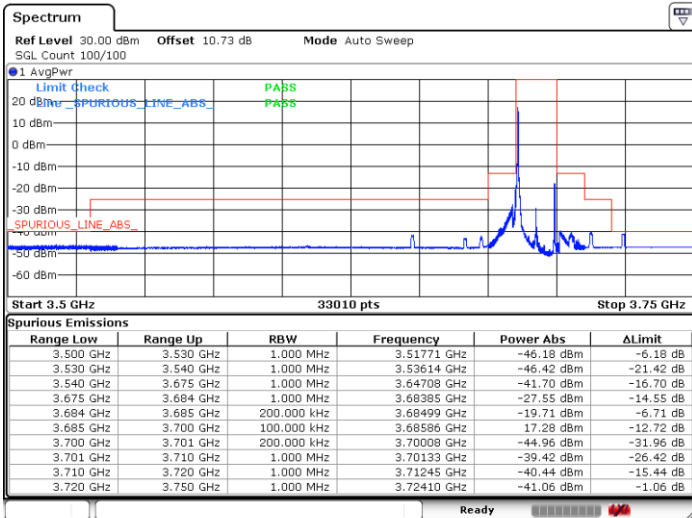


LTE Band 48 / 15MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

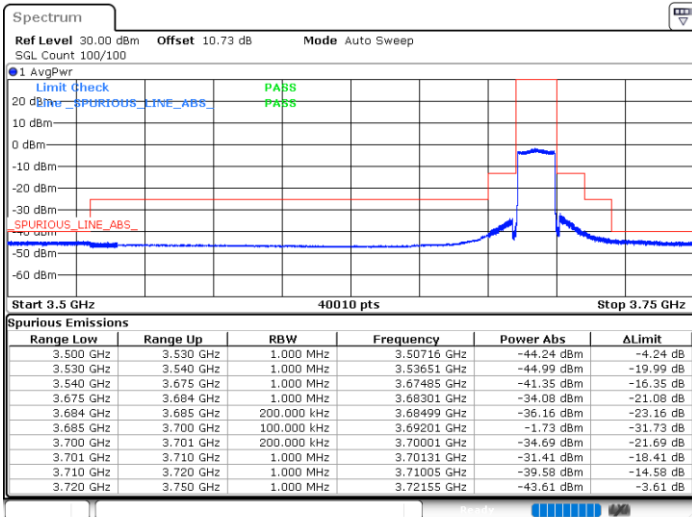


Date: 8. JAN. 2023 13:39:45

Date: 8. JAN. 2023 13:14:06

Highest Channel / FullIRB

N/A



Date: 8. JAN. 2023 04:35:28

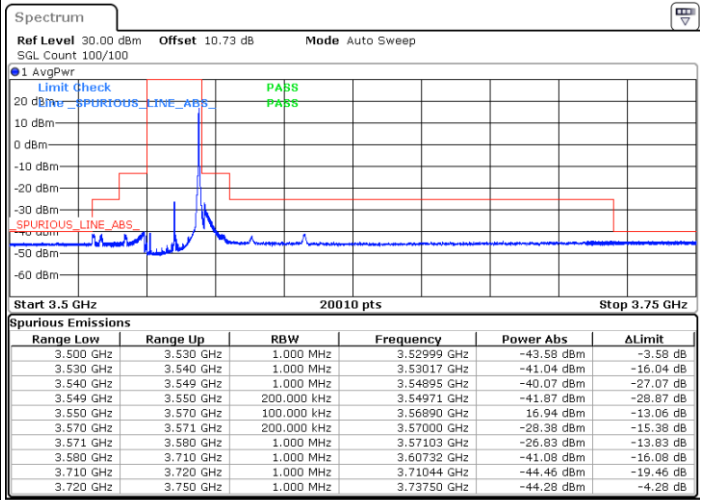
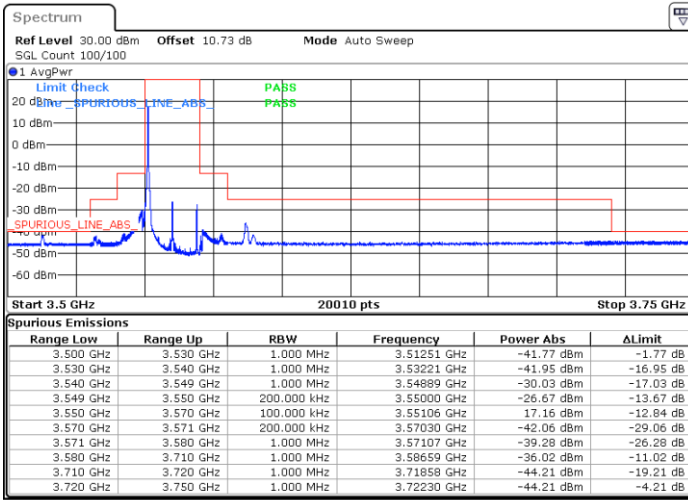


LTE Band 48 / 20MHz

64QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax

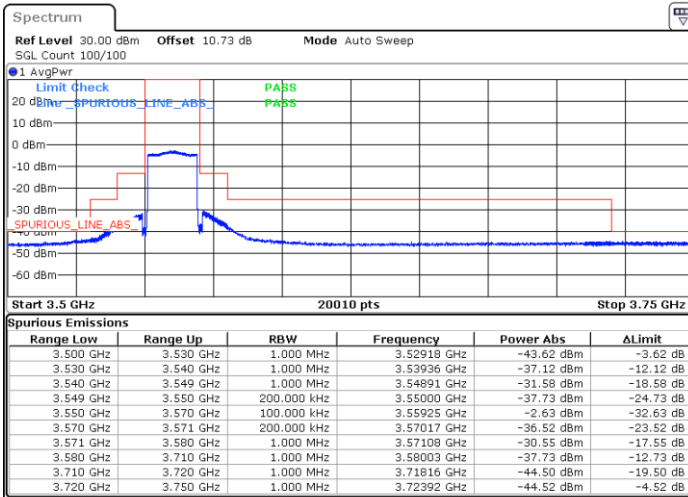


Date: 8. JAN. 2023 04:45:26

Date: 8. JAN. 2023 04:47:07

Lowest Channel / FullIRB

N/A



Date: 8. JAN. 2023 04:55:32

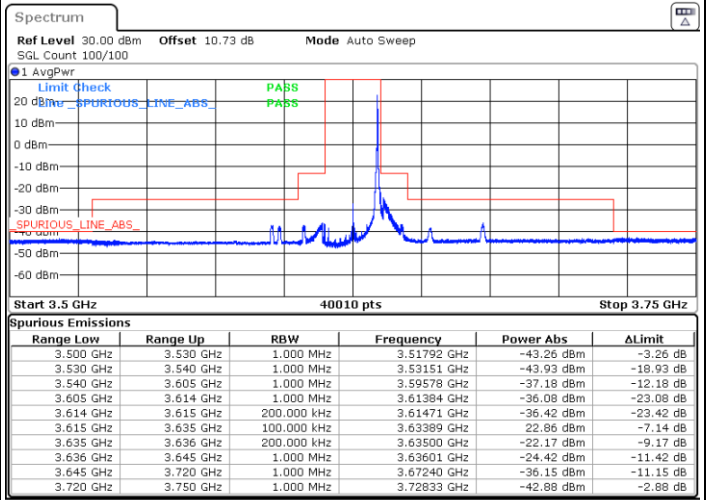
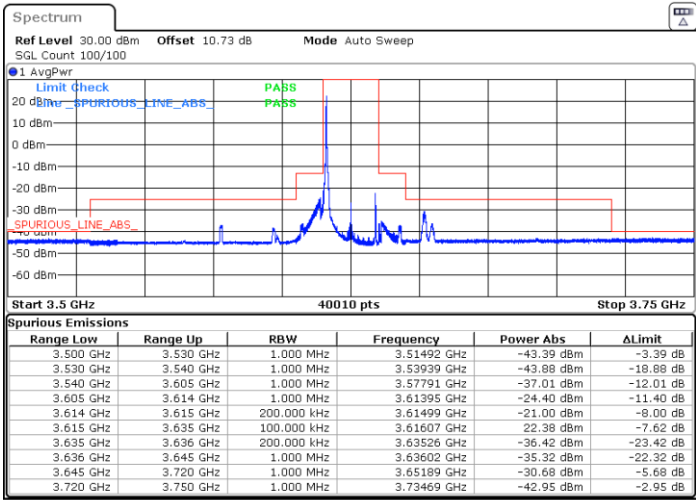


LTE Band 48 / 20MHz

64QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax

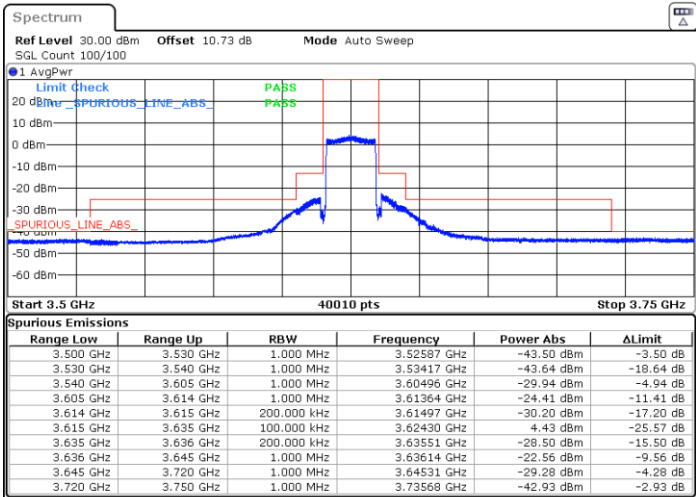


Date: 7. JAN. 2023 14:28:58

Date: 7. JAN. 2023 14:30:38

Middle Channel / FullIRB

N/A



Date: 7. JAN. 2023 14:39:02

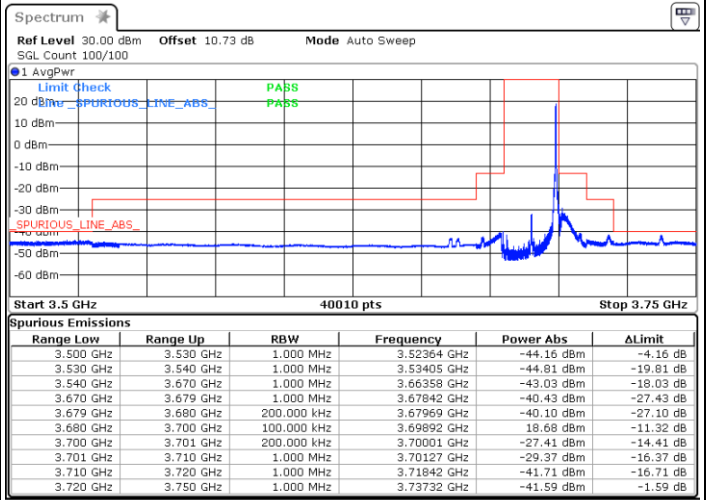
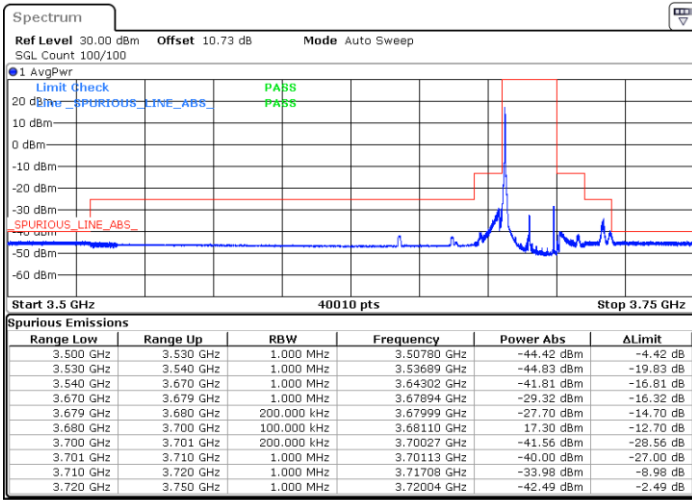


LTE Band 48 / 20MHz

64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax

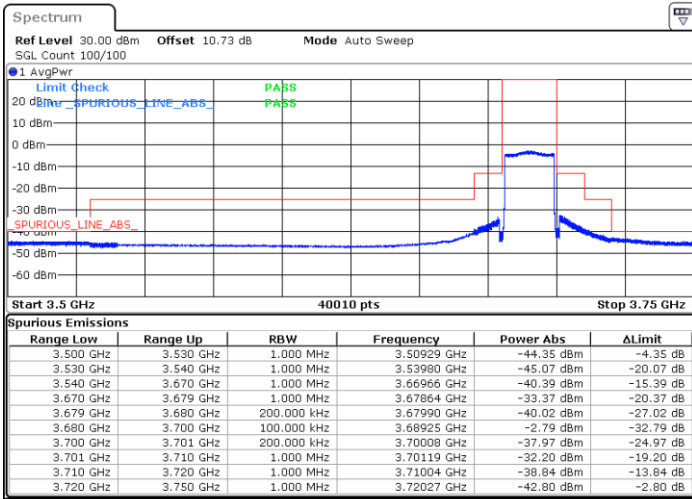


Date: 8. JAN. 2023 05:00:35

Date: 8. JAN. 2023 05:18:50

Highest Channel / FullIRB

N/A



Date: 8. JAN. 2023 05:10:42



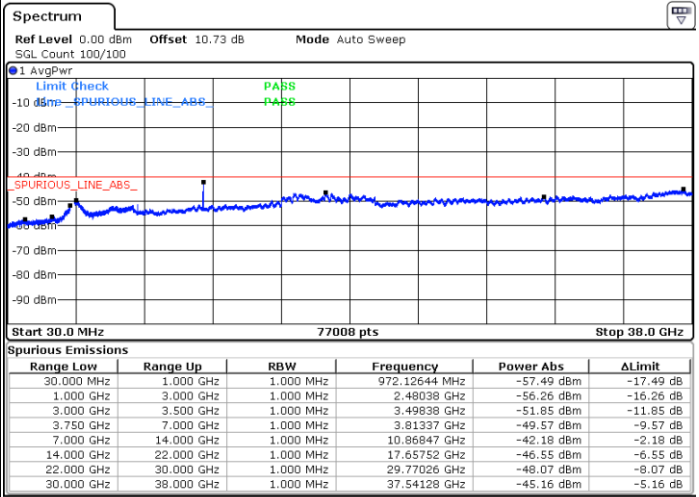
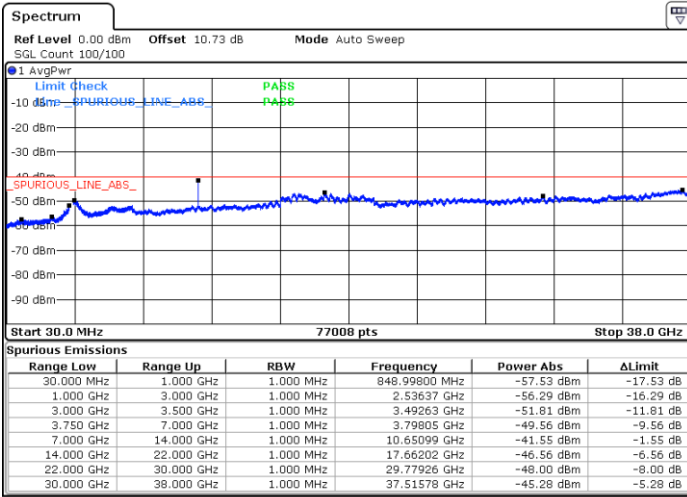
Conducted Spurious Emission

LTE Band 48 / 5MHz

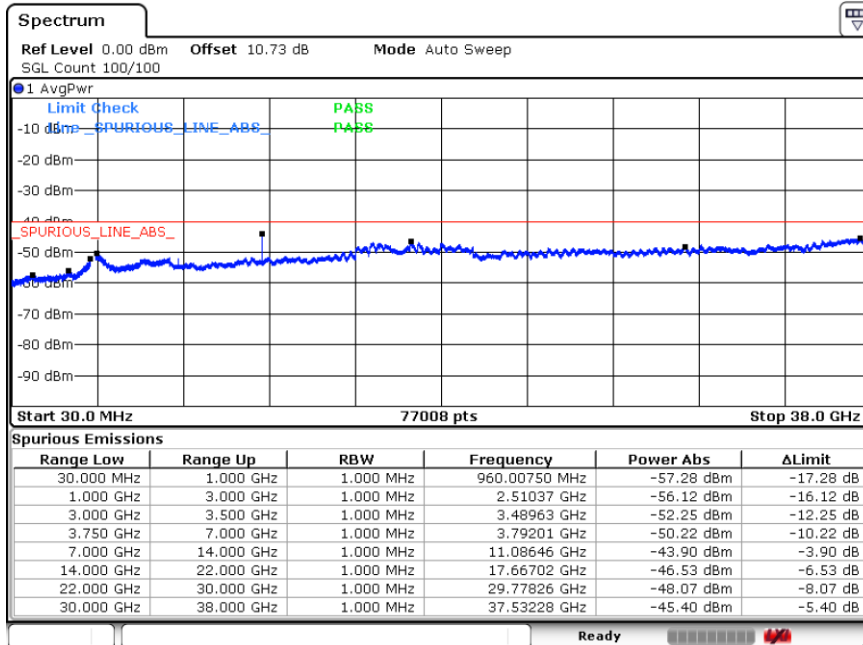
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



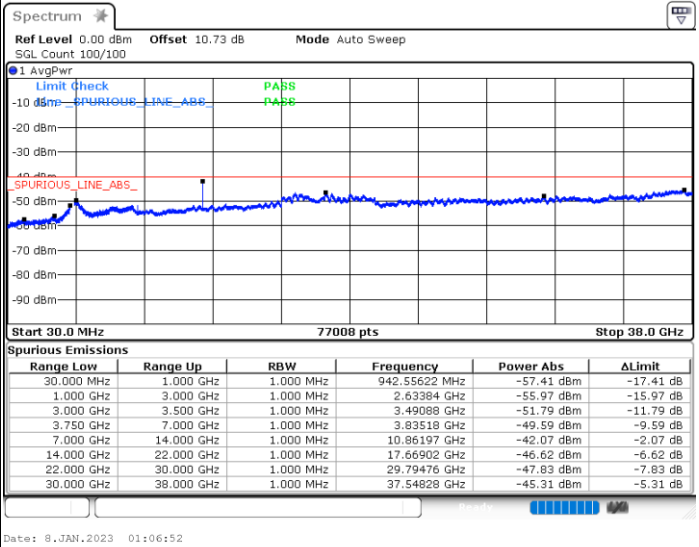
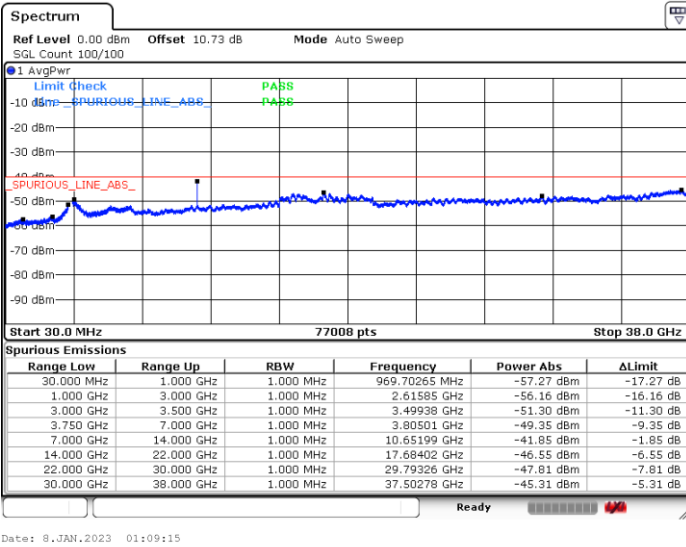


LTE Band 48 / 10MHz

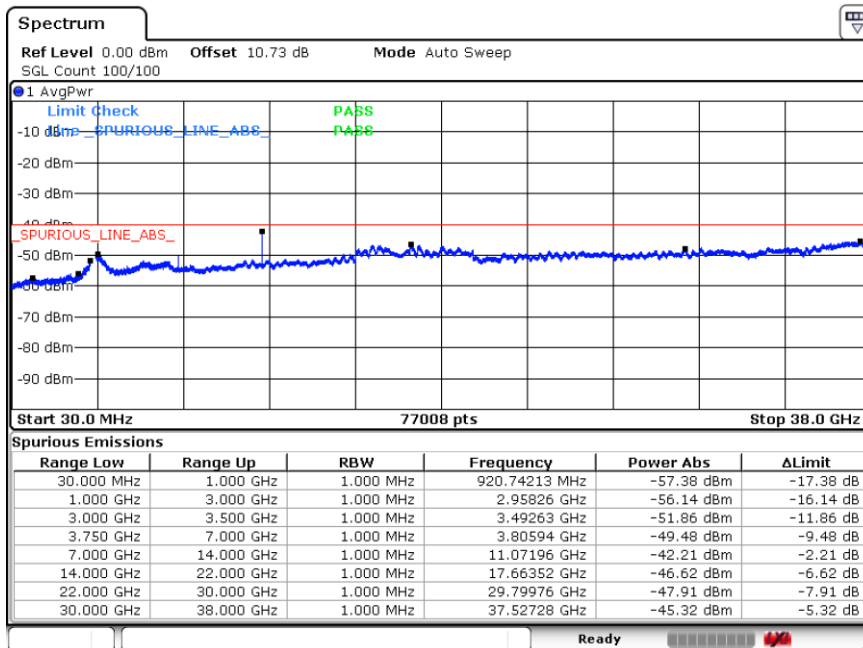
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



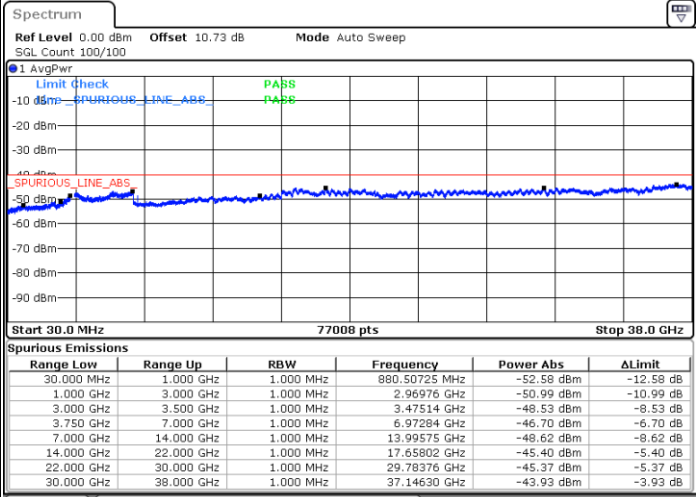
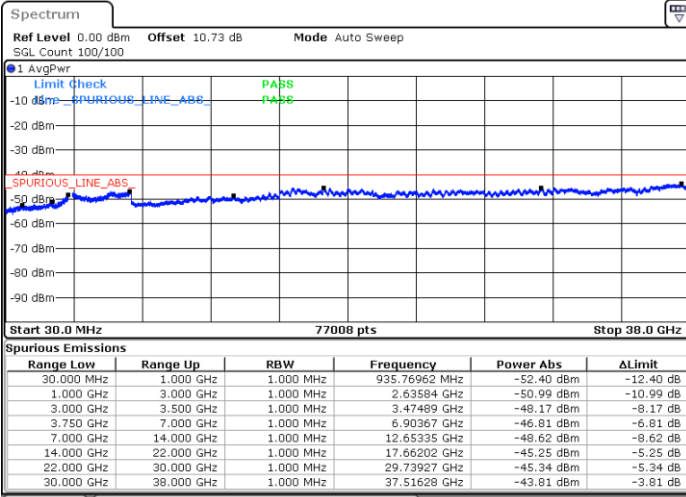


LTE Band 48 / 15MHz

QPSK / 1RB0

Lowest Channel

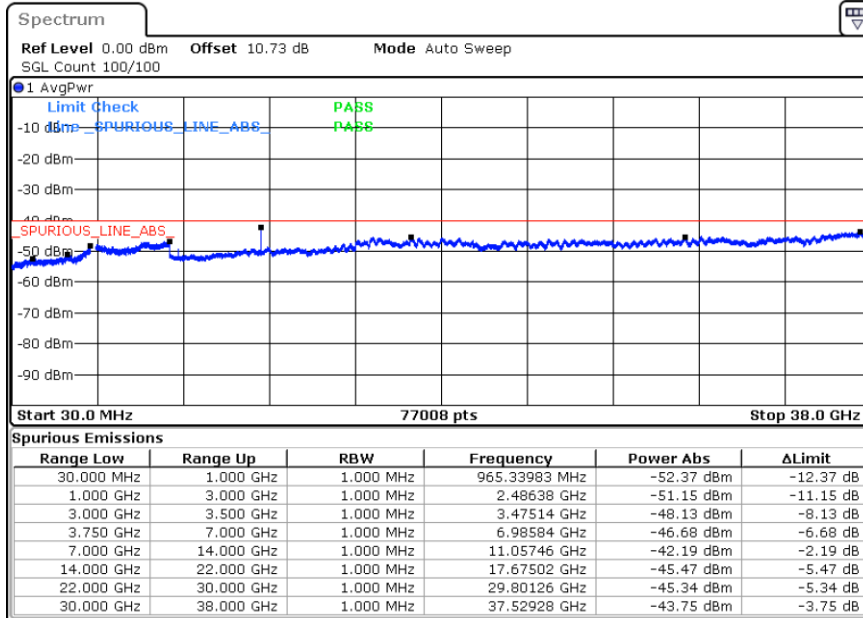
Middle Channel



Date: 8.JAN.2023 00:30:27

Date: 8.JAN.2023 00:32:11

Highest Channel



Date: 8.JAN.2023 00:40:45

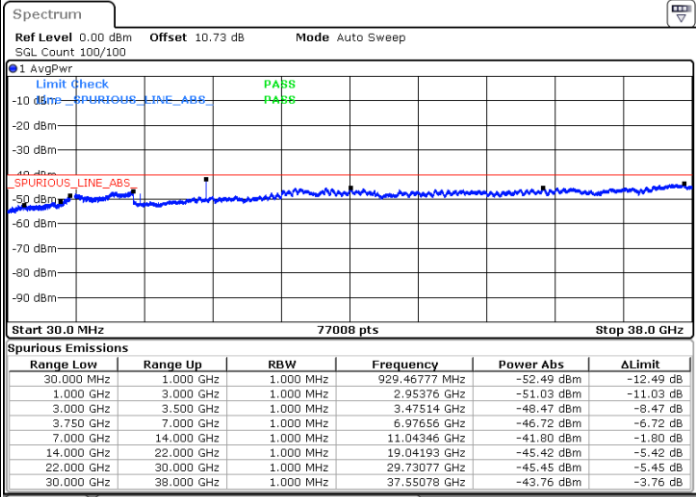
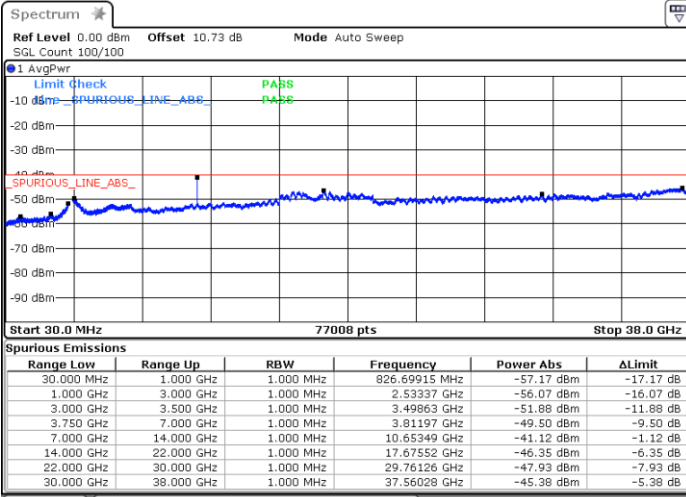


LTE Band 48 / 20MHz

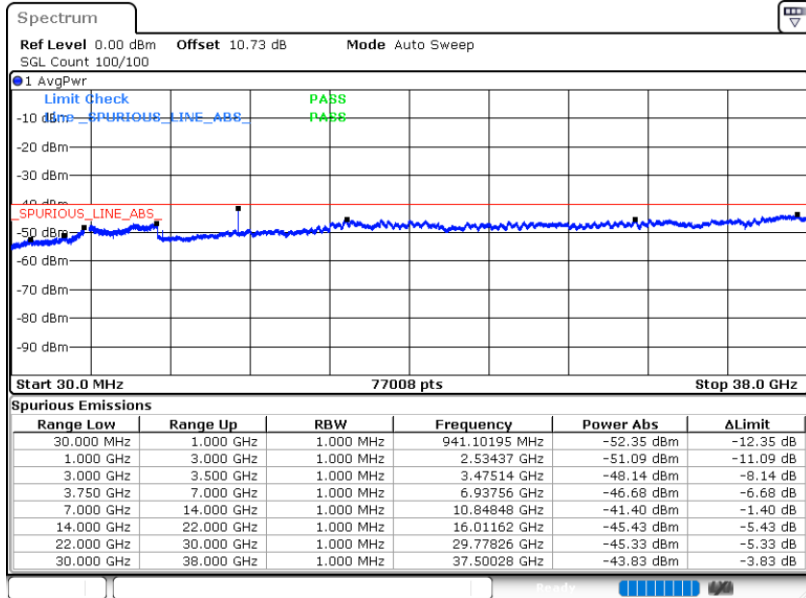
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

| Test Conditions | | LTE Band 48 (QPSK) / Middle Channel | Limit |
|------------------|-----------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0031 | PASS |
| 40 | Normal Voltage | 0.0028 | |
| 30 | Normal Voltage | 0.0015 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0008 | |
| 0 | Normal Voltage | 0.0006 | |
| -10 | Normal Voltage | 0.0015 | |
| -20 | Normal Voltage | 0.0029 | |
| -30 | Normal Voltage | 0.0024 | |
| 20 | Maximum Voltage | 0.0011 | |
| 20 | Normal Voltage | 0.0001 | |
| 20 | Minimum Voltage | 0.0012 | |

Note:

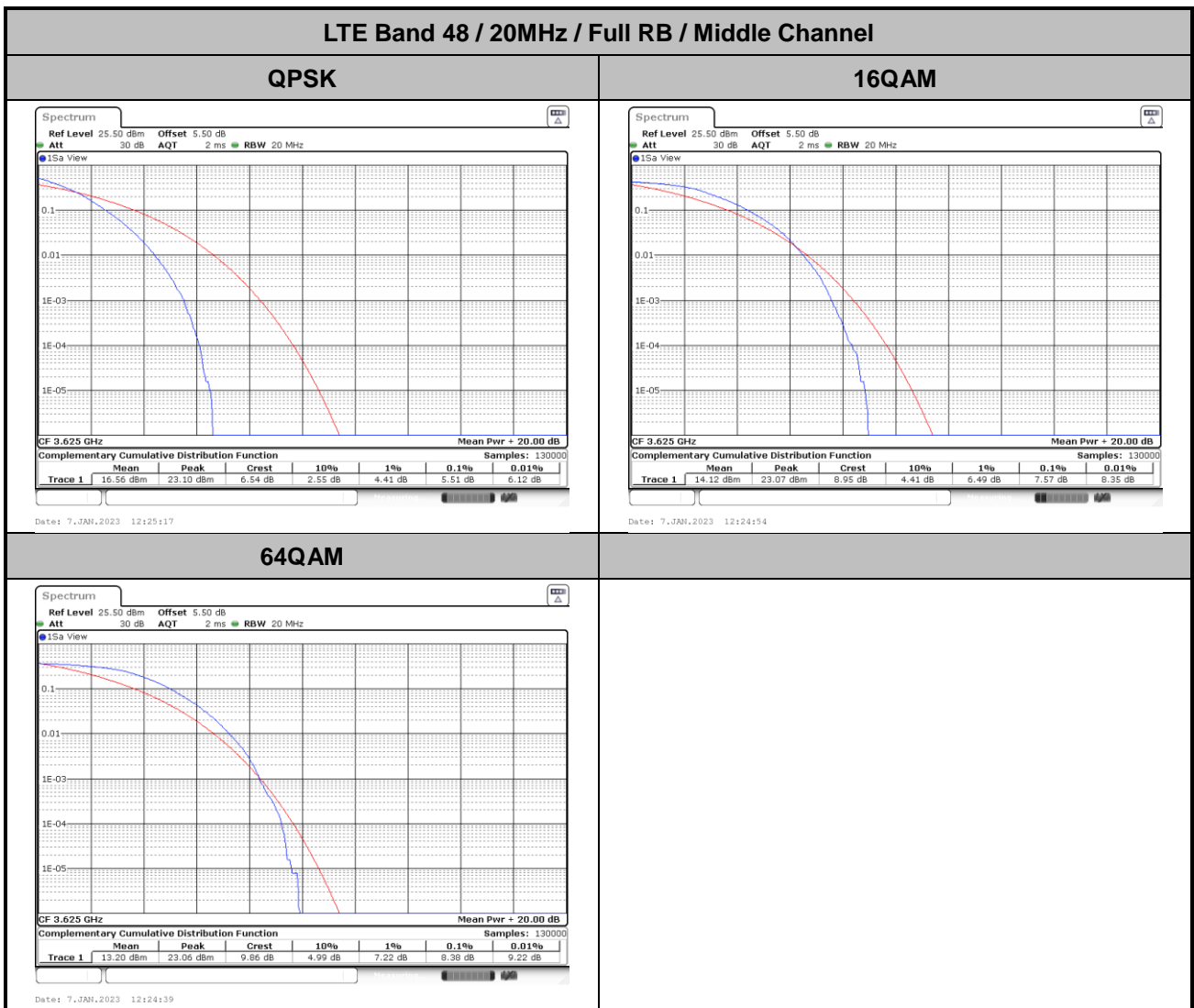
1. Normal Voltage =24 V. ; Minimum Voltage =20 V. ; Maximum Voltage =28 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 48 UL MIMO – Ant 2

Peak-to-Average Ratio

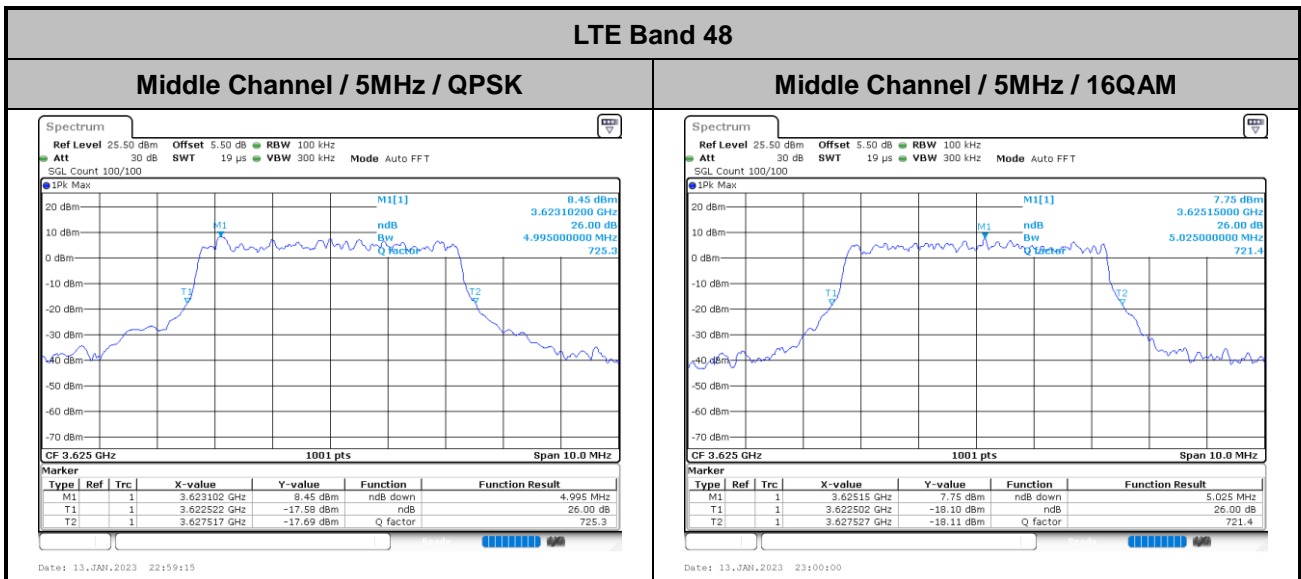
| Mode | LTE Band 48 / 20MHz | | | | |
|-----------|---------------------|-------|-------|-----|-------------|
| Mod. | QPSK | 16QAM | 64QAM | N/A | Limit: 13dB |
| RB Size | Full RB | | | | Result |
| Middle CH | 5.51 | 7.57 | 8.38 | | PASS |





26dB Bandwidth

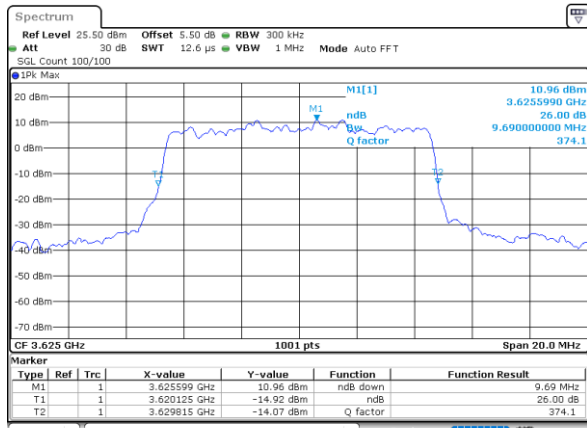
| Mode | LTE Band 48 : 26dB BW(MHz) | |
|------------------|----------------------------|--------------|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 5.00 | 5.03 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.69 | 9.65 |
| BW | 15MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 14.33 | 14.30 |
| BW | 20MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 18.66 | 18.94 |





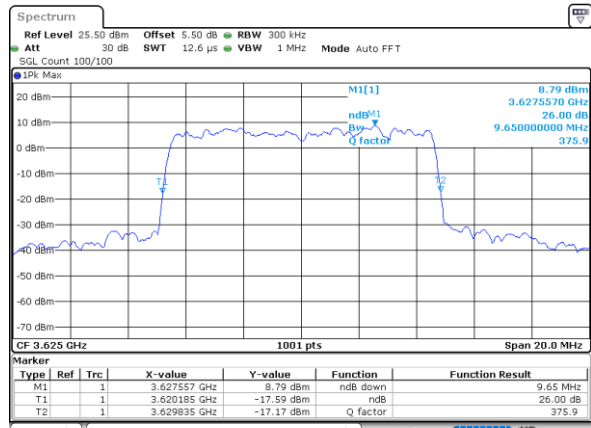
LTE Band 48

Middle Channel / 10MHz / QPSK



Date: 13_JAN_2023 22:54:48

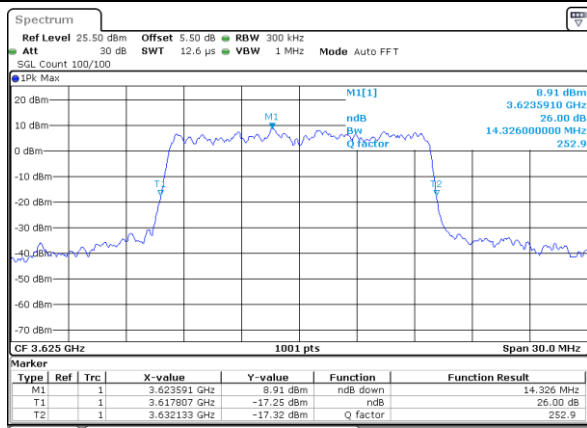
Middle Channel / 10MHz / 16QAM



Date: 13_JAN_2023 22:55:34

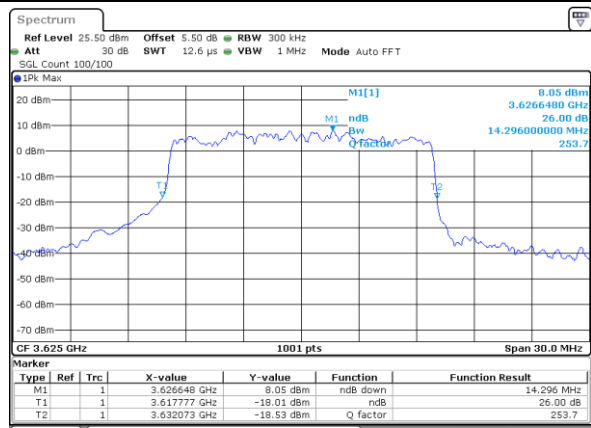
LTE Band 48

Middle Channel / 15MHz / QPSK



Date: 13_JAN_2023 22:56:54

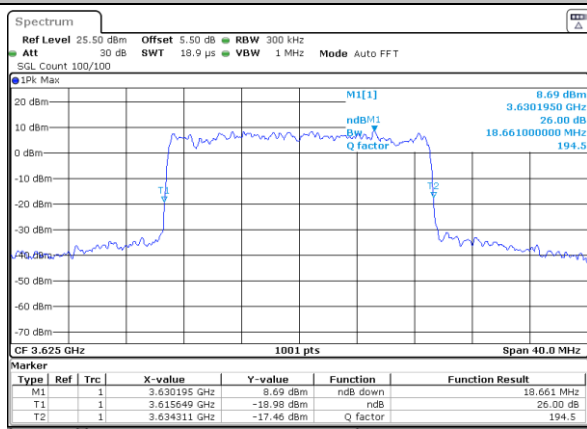
Middle Channel / 15MHz / 16QAM



Date: 13_JAN_2023 22:57:57

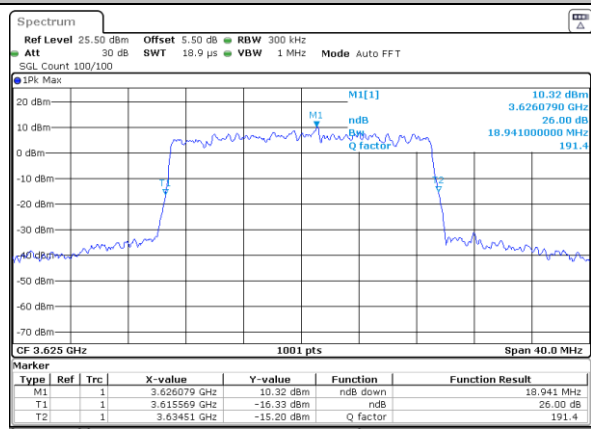
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 7_JAN_2023 12:23:54

Middle Channel / 20MHz / 16QAM

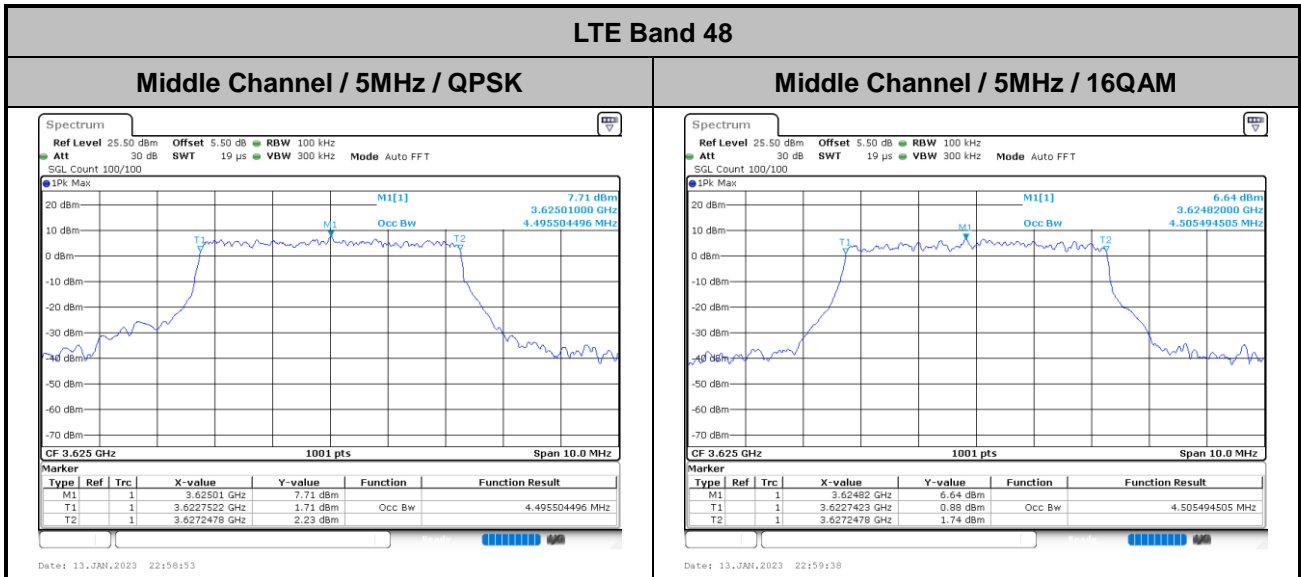


Date: 7_JAN_2023 12:24:22



Occupied Bandwidth

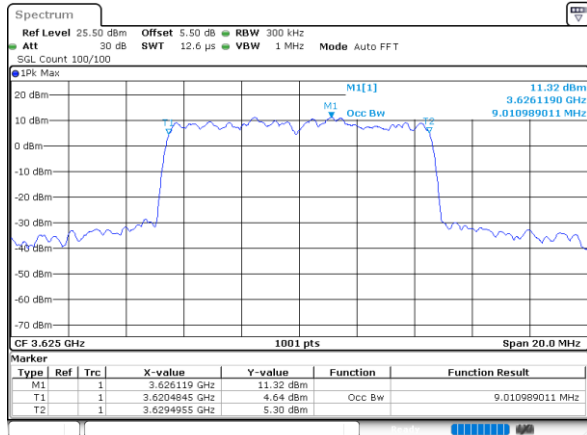
| Mode | LTE Band 48 : 99%OBW(MHz) | |
|------------------|---------------------------|--------------|
| BW | 5MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 4.50 | 4.51 |
| BW | 10MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 9.01 | 9.03 |
| BW | 15MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 13.37 | 13.40 |
| BW | 20MHz | |
| Mod. | QPSK | 16QAM |
| Middle CH | 17.86 | 17.90 |





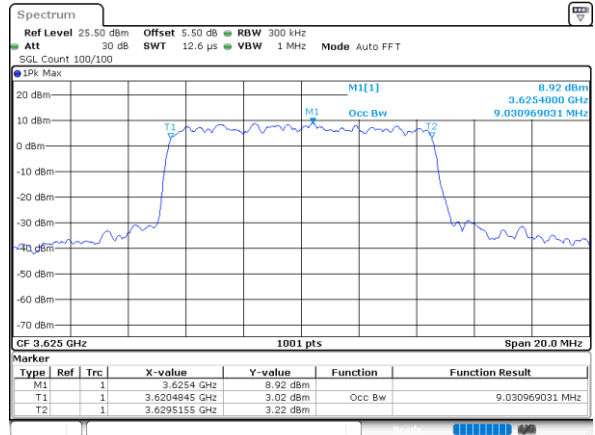
LTE Band 48

Middle Channel / 10MHz / QPSK



Date: 13_JAN_2023 22:54:25

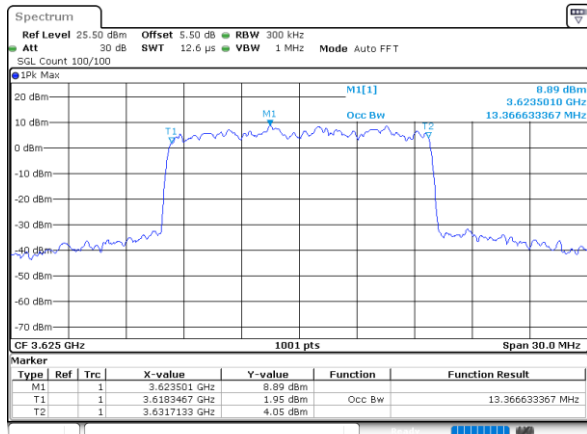
Middle Channel / 10MHz / 16QAM



Date: 13_JAN_2023 22:55:12

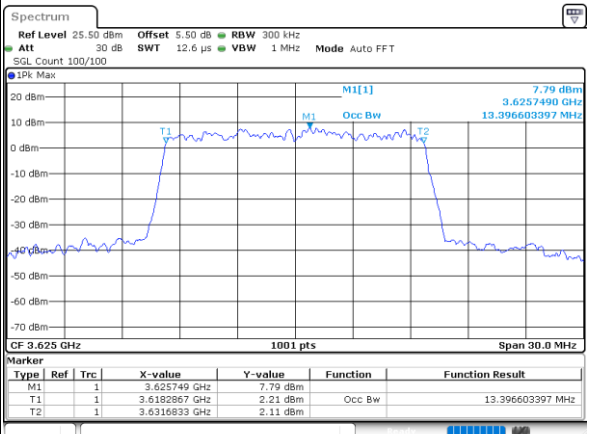
LTE Band 48

Middle Channel / 15MHz / QPSK



Date: 13_JAN_2023 22:56:06

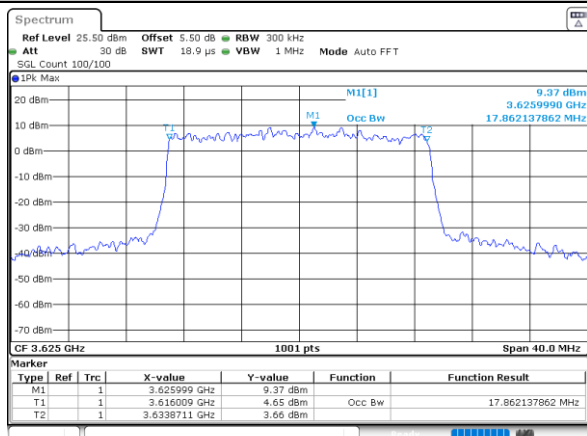
Middle Channel / 15MHz / 16QAM



Date: 13_JAN_2023 22:57:04

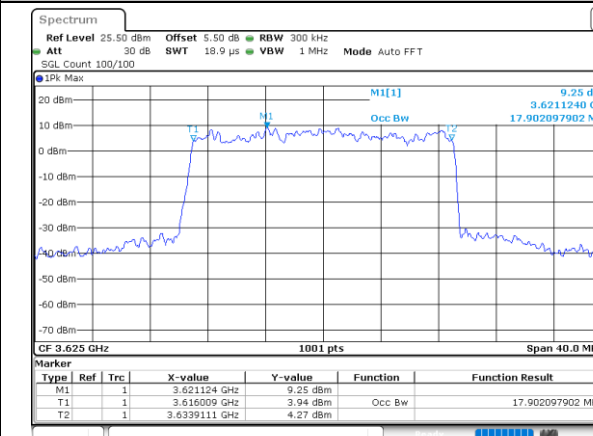
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 7_JAN_2023 12:23:40

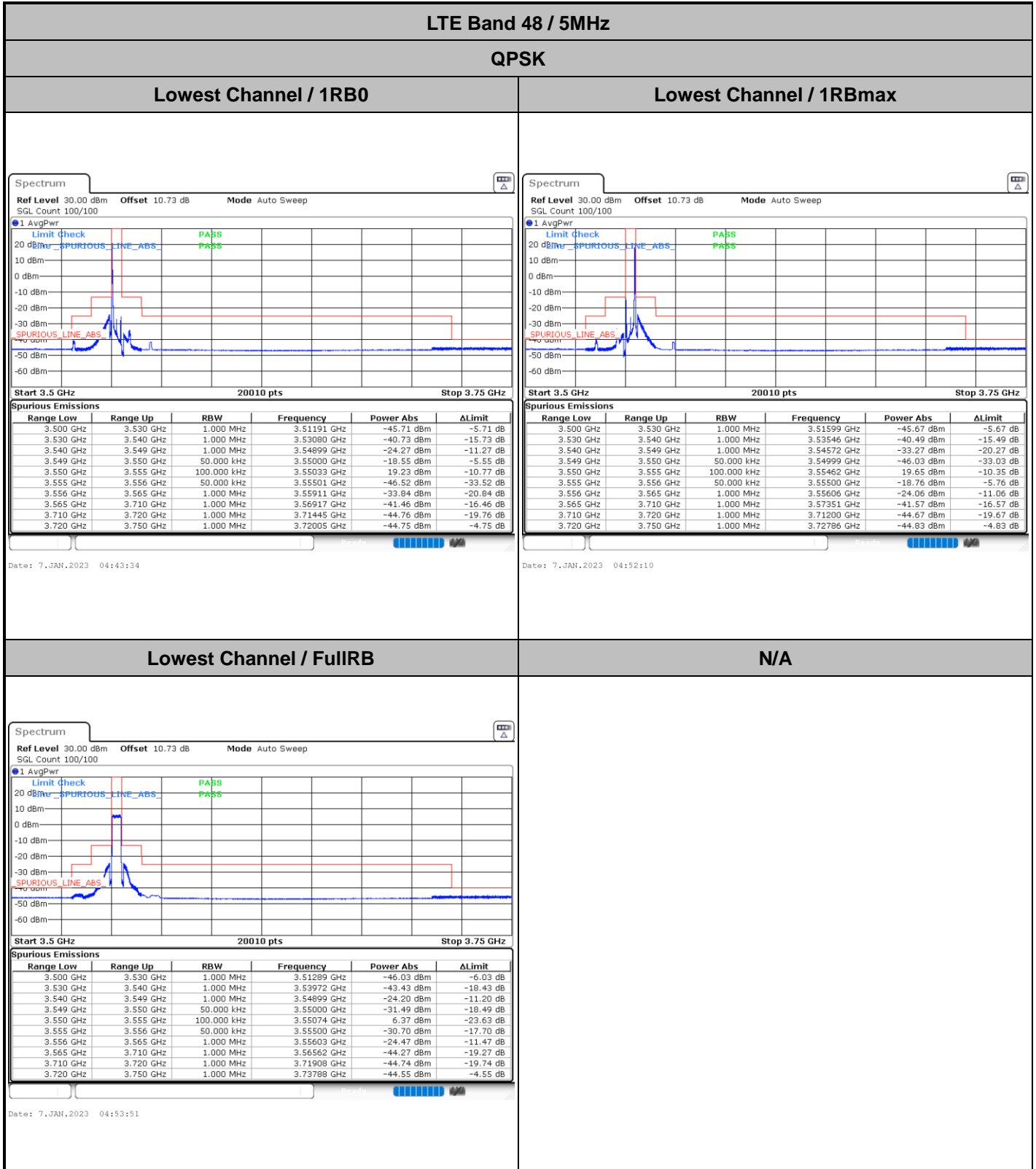
Middle Channel / 20MHz / 16QAM



Date: 7_JAN_2023 12:24:11



Conducted Band Edge



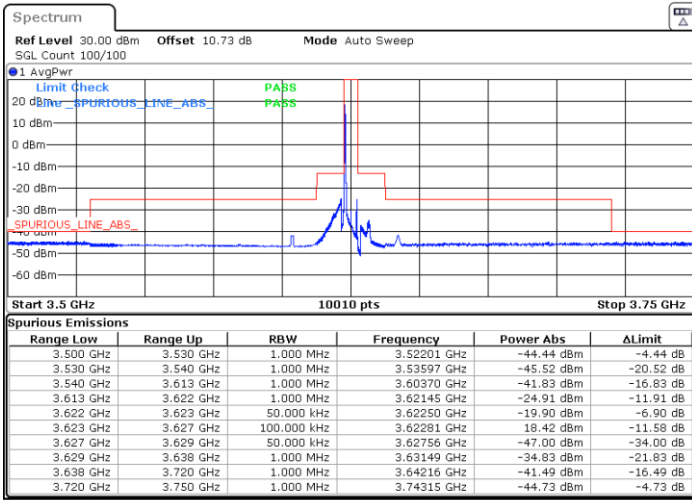


LTE Band 48 / 5MHz

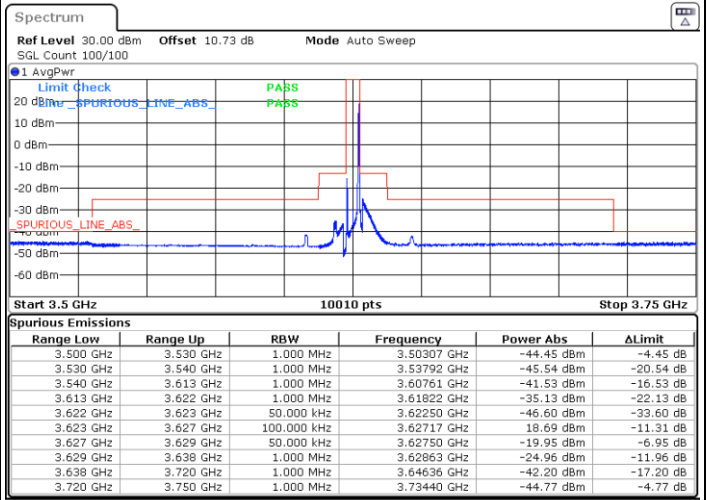
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



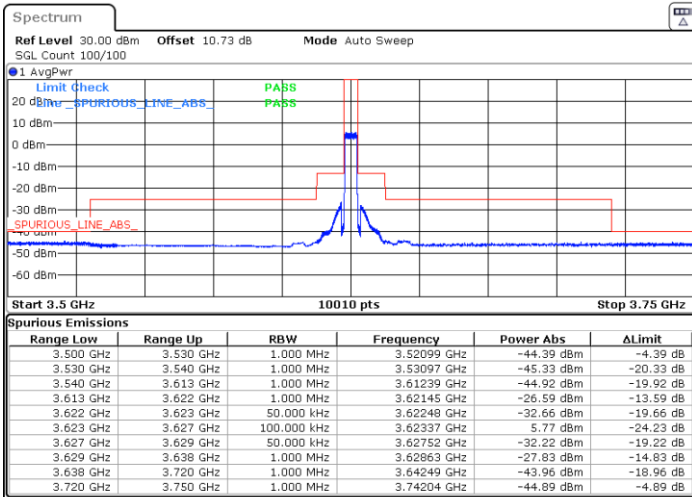
Date: 7. JAN. 2023 04:59:21



Date: 7. JAN. 2023 05:07:43

Middle Channel / FullIRB

N/A



Date: 7. JAN. 2023 05:09:23

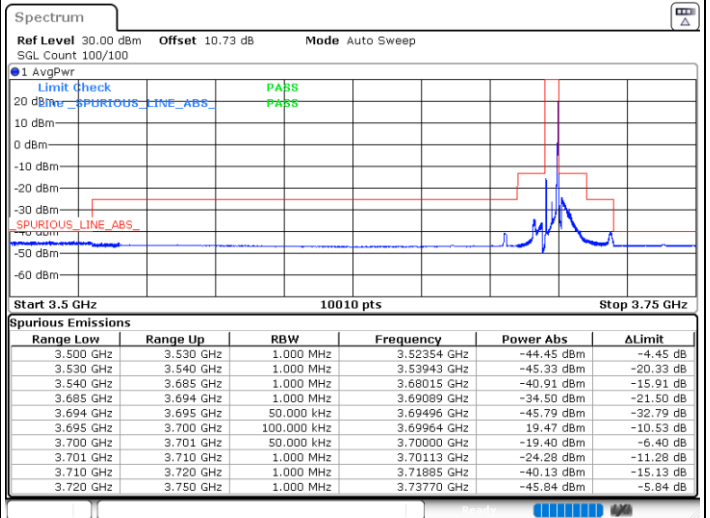
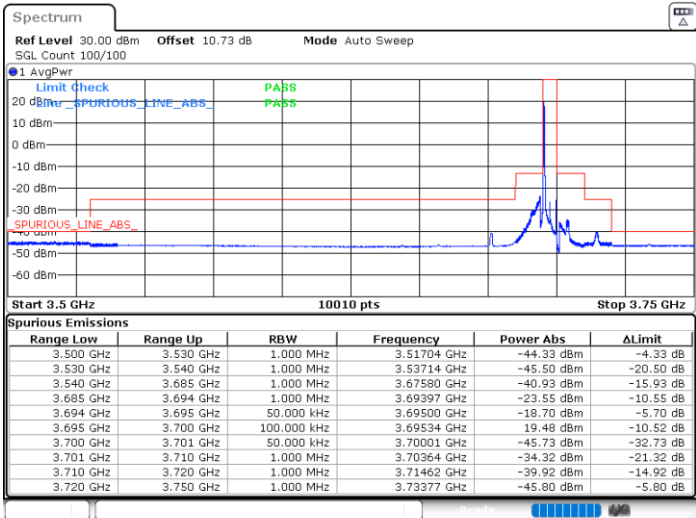


LTE Band 48 / 5MHz

QPSK

Highest Channel / 1RB0

Highest Channel / 1RBmax

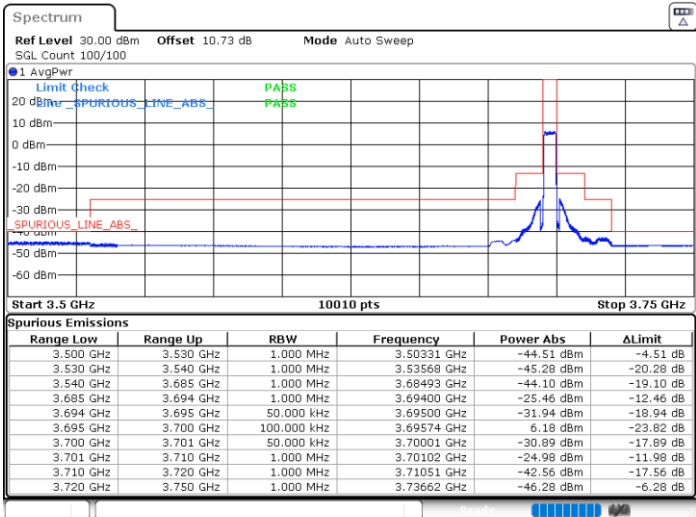


Date: 7. JAN. 2023 05:14:26

Date: 7. JAN. 2023 05:22:52

Highest Channel / FullIRB

N/A



Date: 7. JAN. 2023 05:24:33

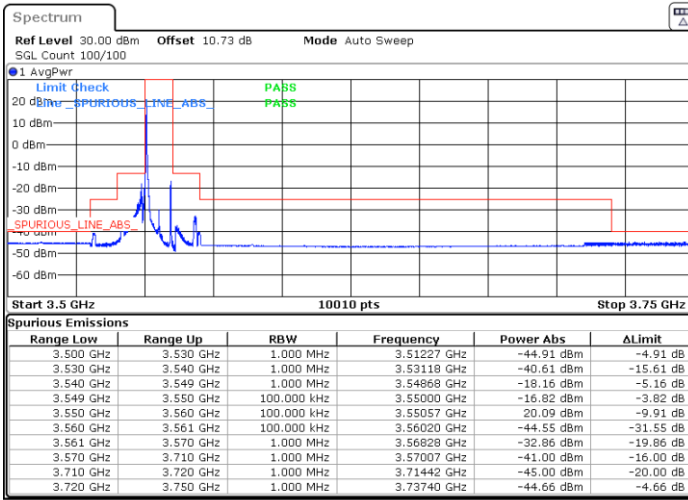


LTE Band 48 / 10MHz

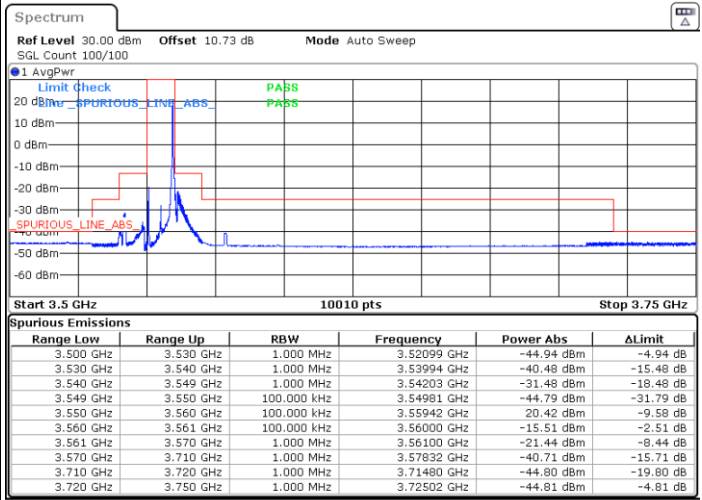
QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



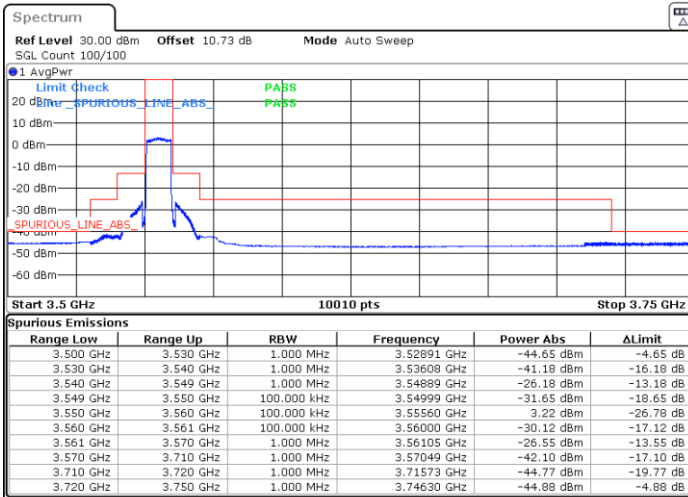
Date: 7. JAN. 2023 05:29:37



Date: 7. JAN. 2023 05:38:03

Lowest Channel / FullIRB

N/A



Date: 7. JAN. 2023 05:39:44