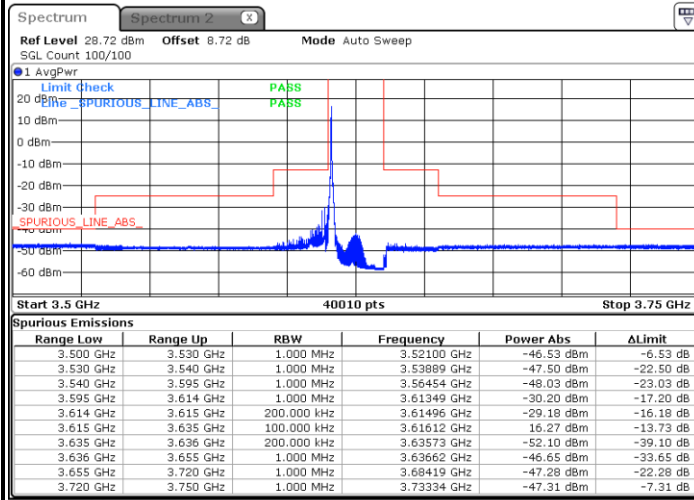




## LTE Band 48 / 20MHz

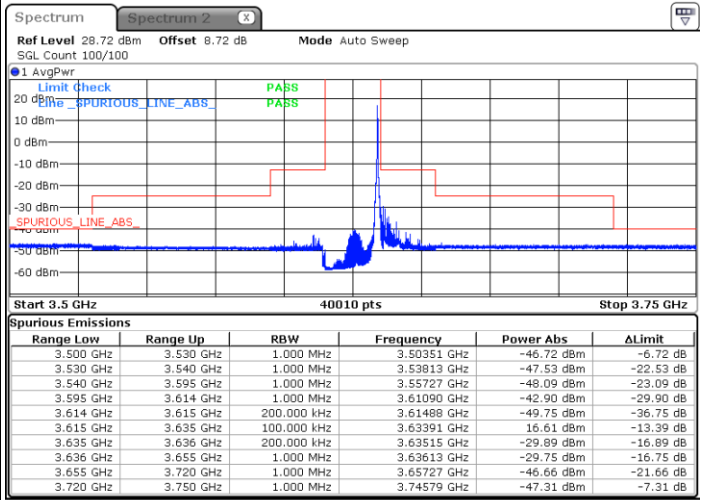
## 64QAM

## Middle Channel / 1RB0



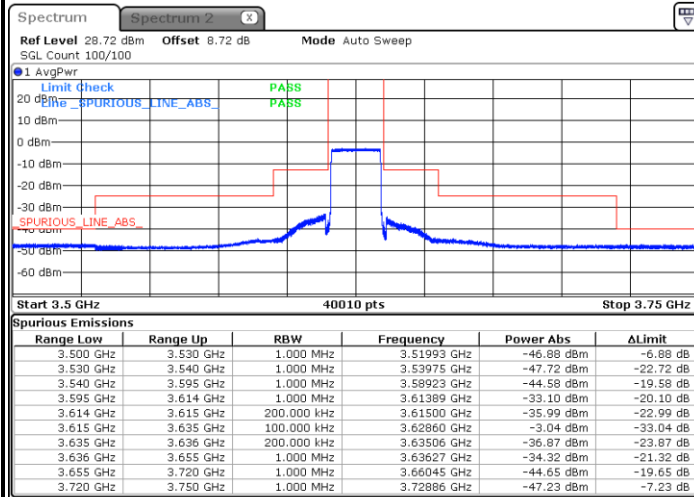
Date: 29.SEP.2022 08:04:10

## Middle Channel / 1RBmax



Date: 29.SEP.2022 08:08:42

## Middle Channel / FullRB



Date: 29.SEP.2022 05:01:17

N/A

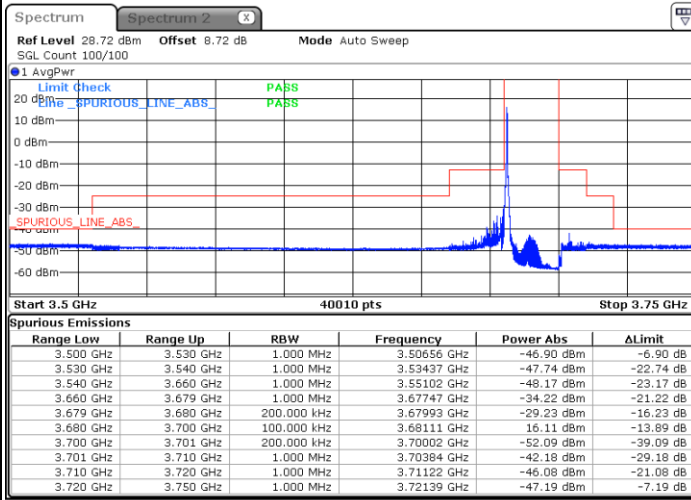


## LTE Band 48 / 20MHz

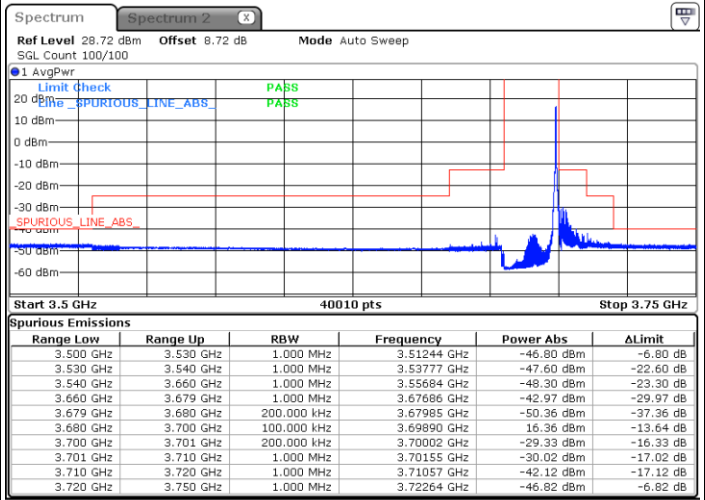
## 64QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



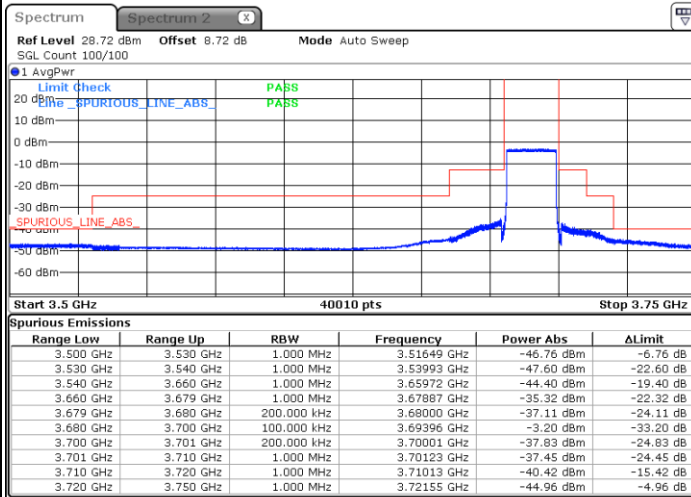
Date: 29.SEP.2022 08:40:46



Date: 29.SEP.2022 08:49:41

## Highest Channel / FullIRB

## N/A



Date: 29.SEP.2022 08:36:23

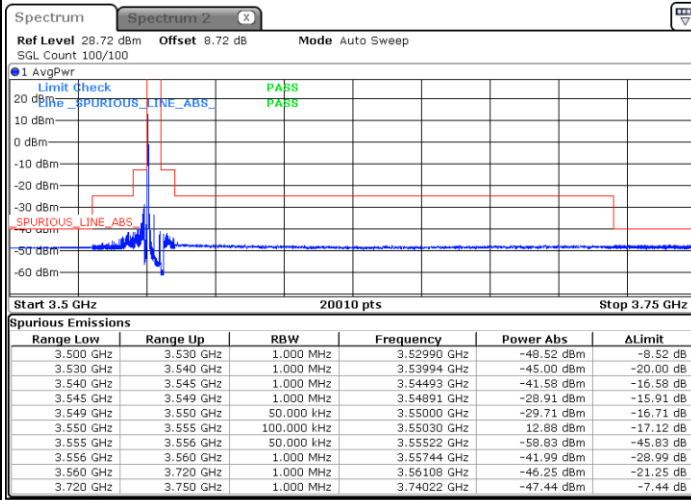


## LTE Band 48 / 5MHz

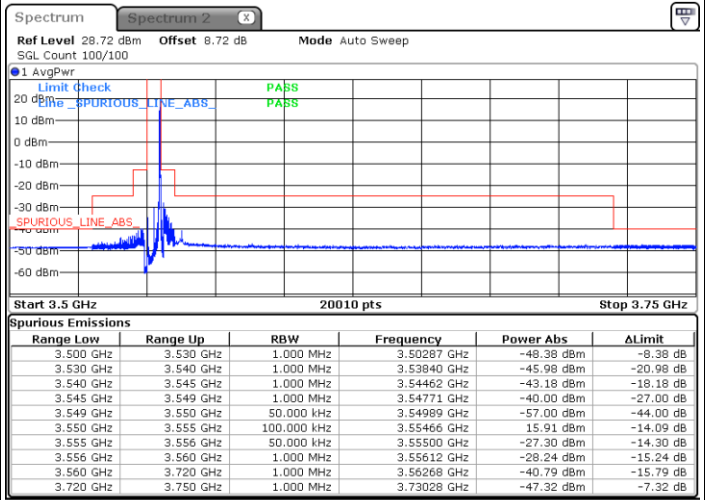
## 256QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



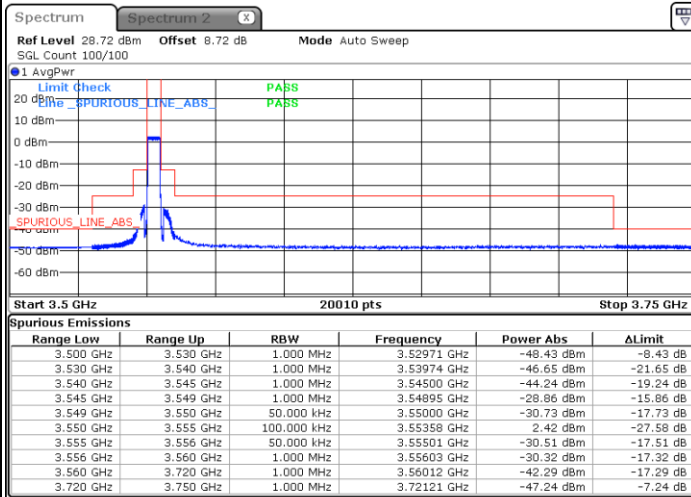
Date: 28.SEP.2022 23:56:49



Date: 29.SEP.2022 00:15:04

## Lowest Channel / FullRB

## N/A



Date: 29.SEP.2022 00:26:03

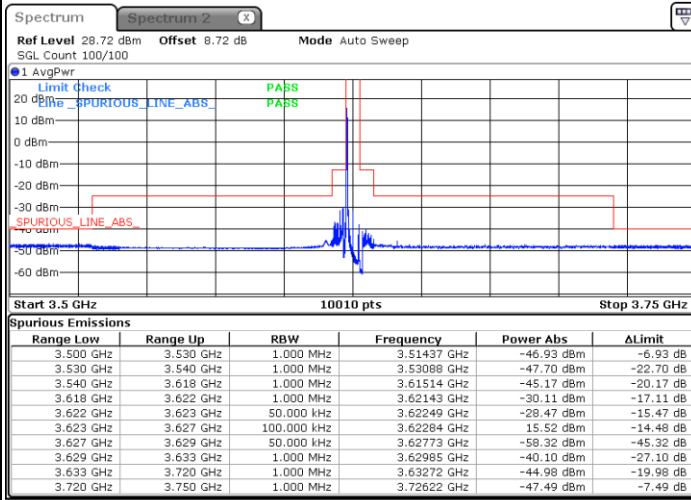


## LTE Band 48 / 5MHz

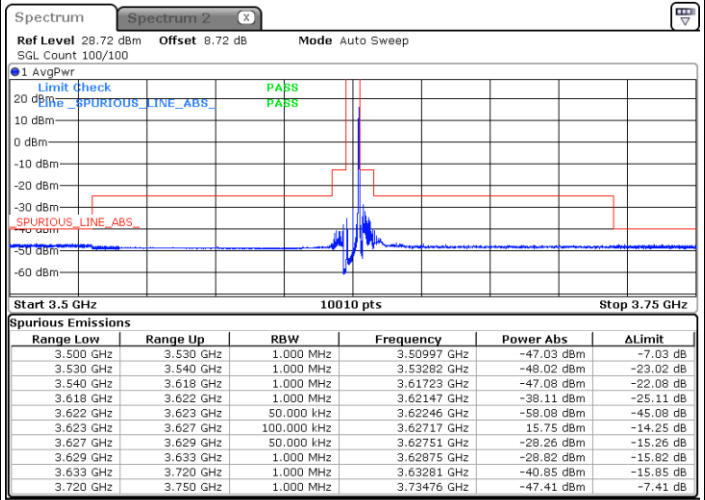
## 256QAM

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



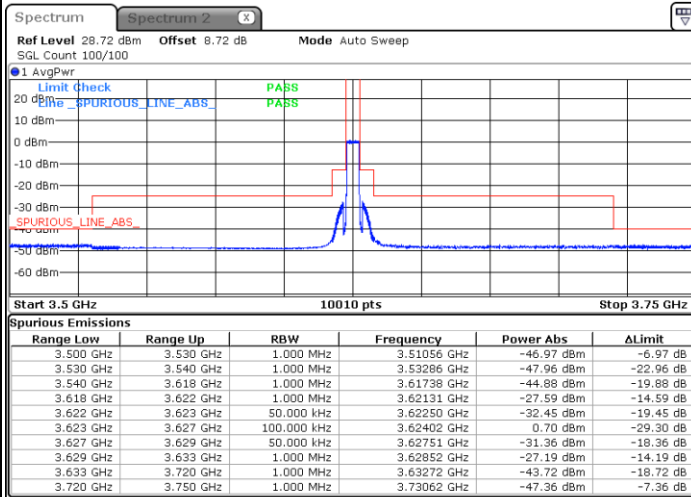
Date: 29.SEP.2022 00:45:26



Date: 29.SEP.2022 00:46:42

## Middle Channel / FullRB

## N/A



Date: 29.SEP.2022 00:28:17

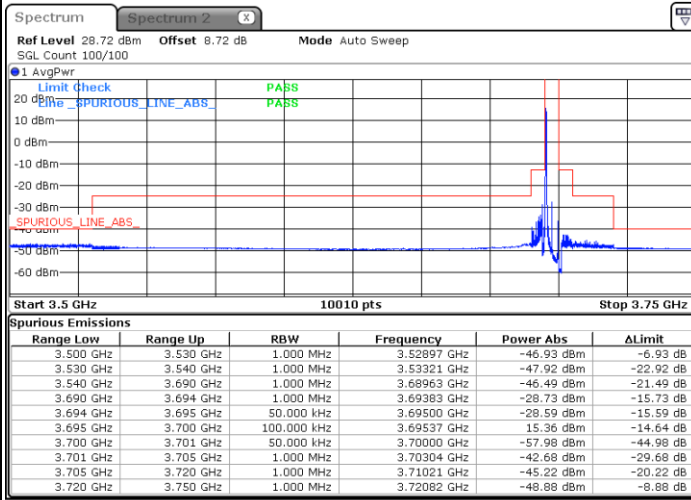


## LTE Band 48 / 5MHz

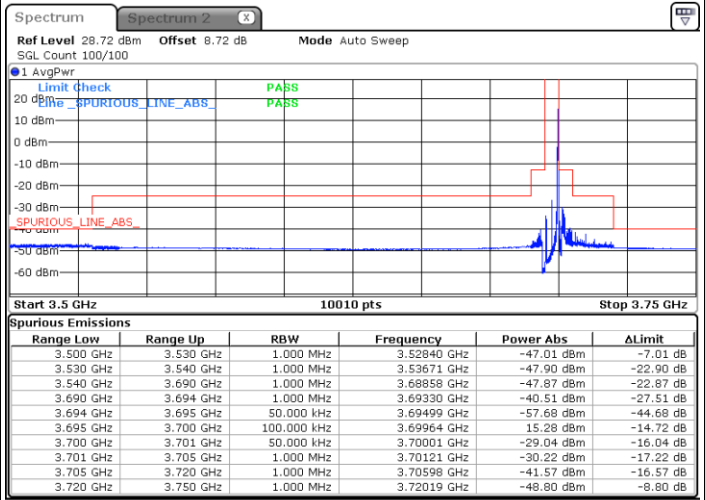
## 256QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



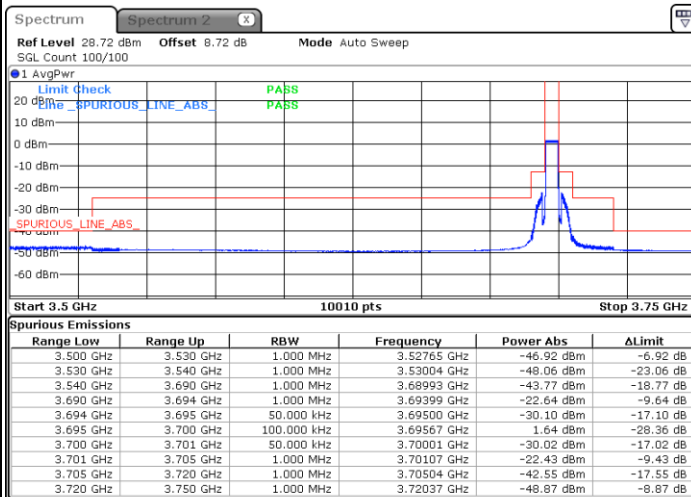
Date: 29.SEP.2022 02:42:44



Date: 29.SEP.2022 02:32:48

## Highest Channel / FullIRB

## N/A



Date: 29.SEP.2022 02:34:11

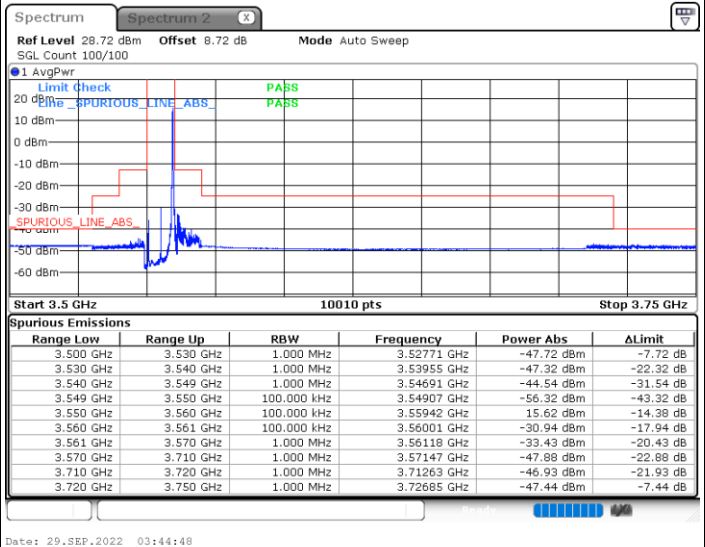
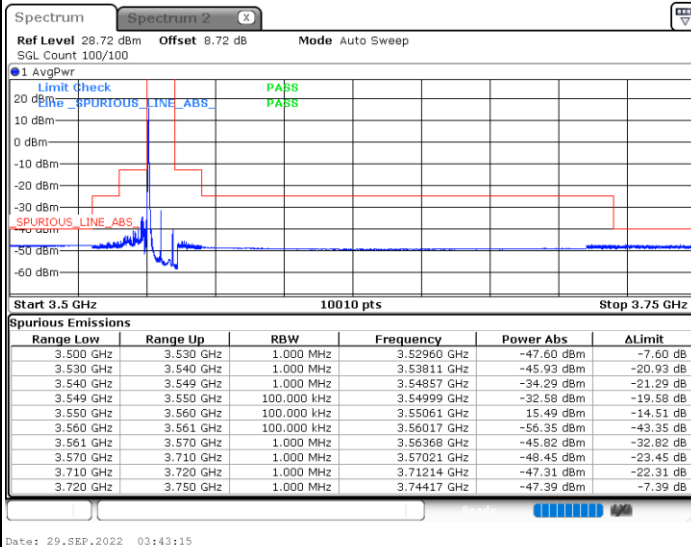


## LTE Band 48 / 10MHz

## 256QAM

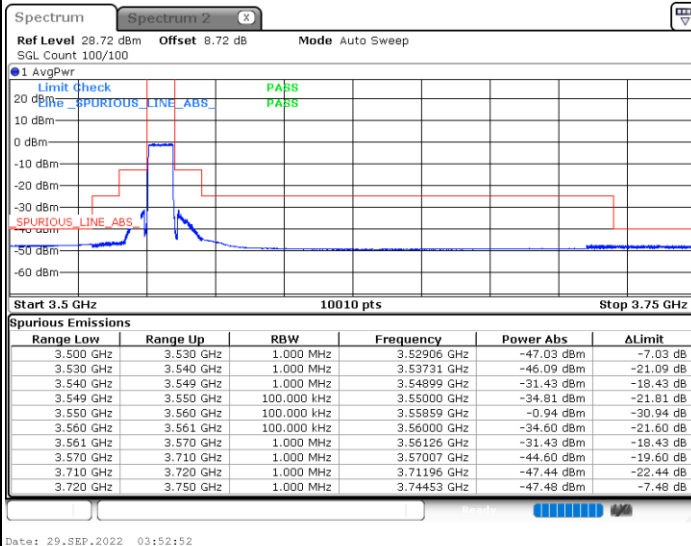
## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



## Lowest Channel / FullIRB

## N/A



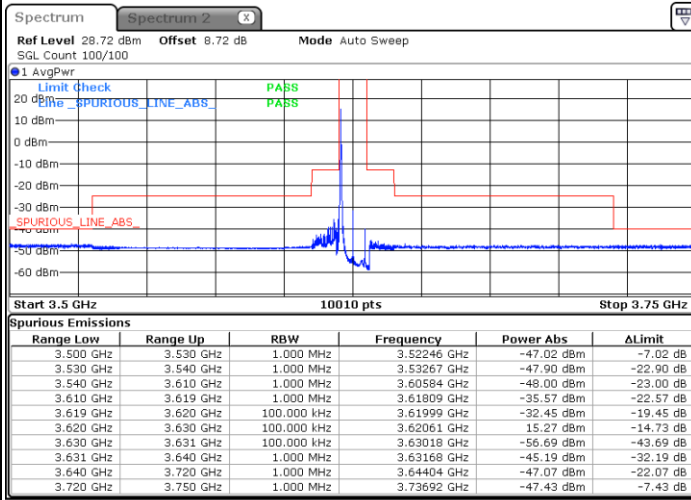


## LTE Band 48 / 10MHz

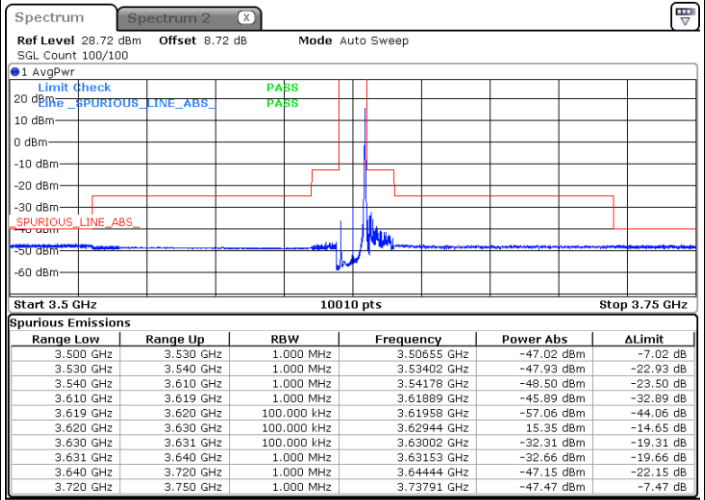
## 256QAM

## MiddleChannel / 1RB0

## Middle Channel / 1RBmax



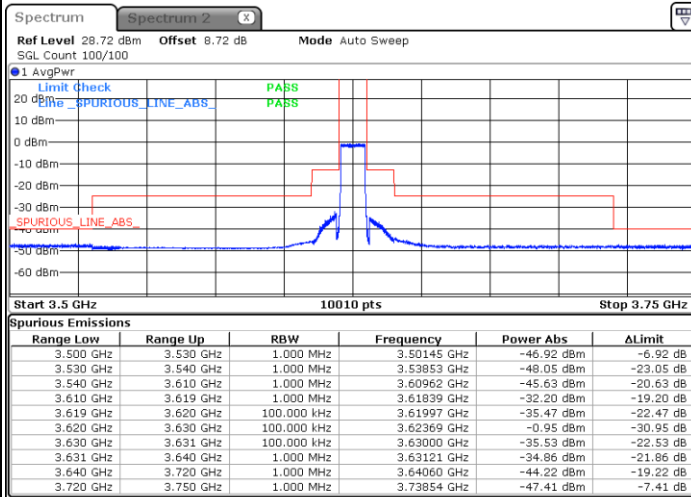
Date: 29.SEP.2022 02:48:55



Date: 29.SEP.2022 03:02:07

## Middle Channel / FullRB

## N/A



Date: 29.SEP.2022 02:47:56

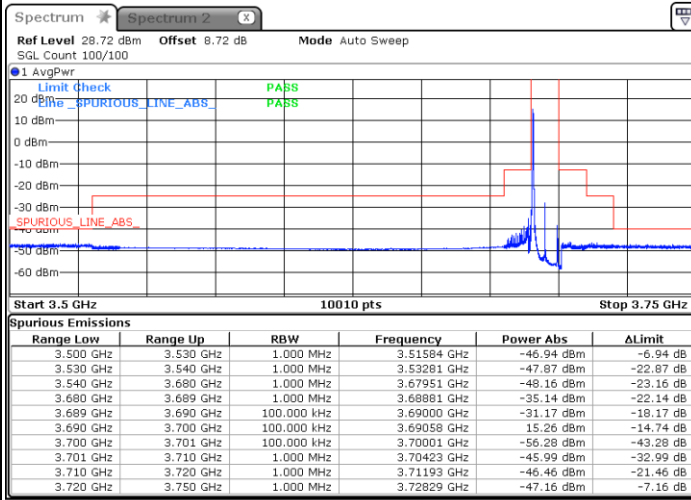


## LTE Band 48 / 10MHz

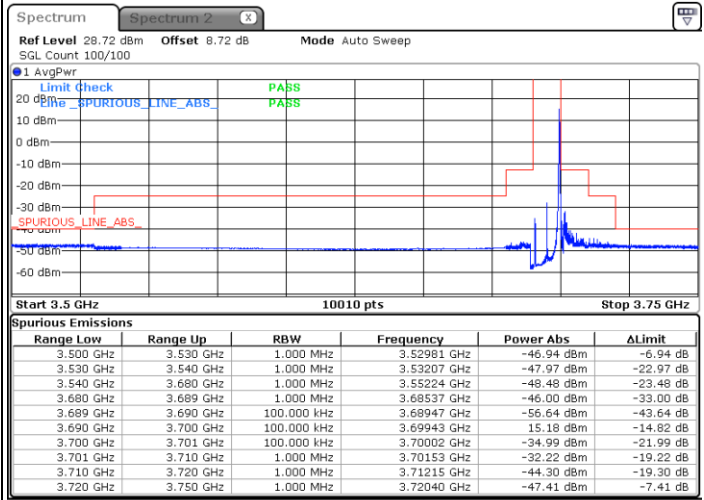
## 256QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



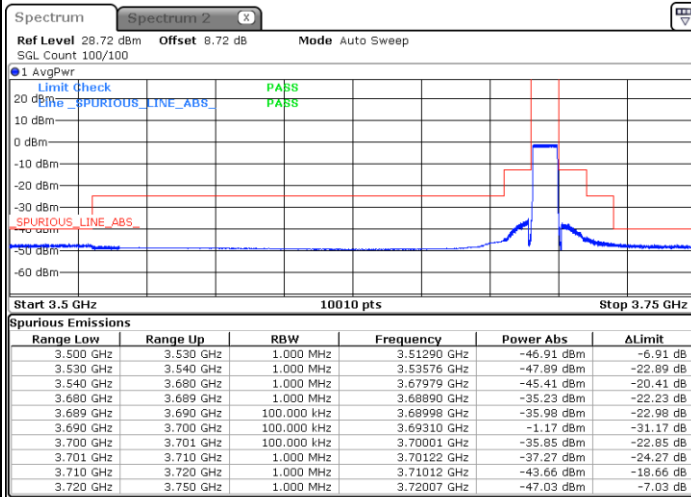
Date: 29.SEP.2022 03:26:40



Date: 29.SEP.2022 03:37:44

## Highest Channel / FullIRB

## N/A



Date: 29.SEP.2022 03:57:27

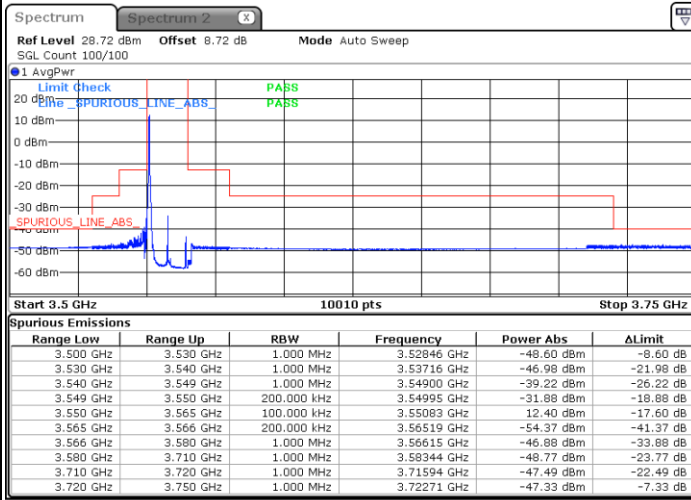


## LTE Band 48 / 15MHz

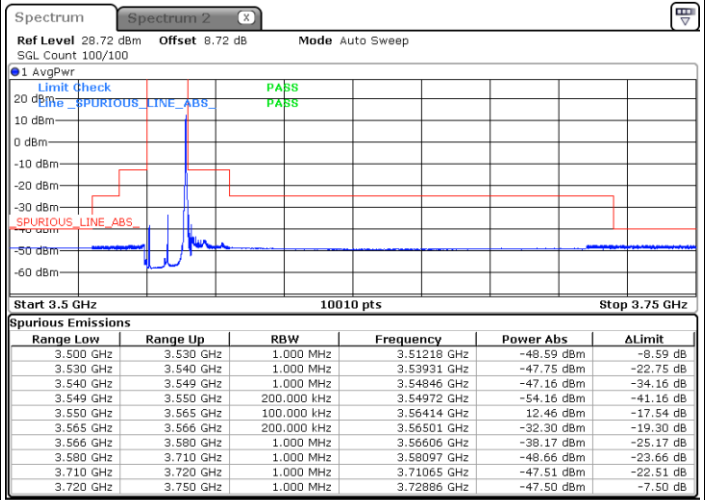
## 256QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



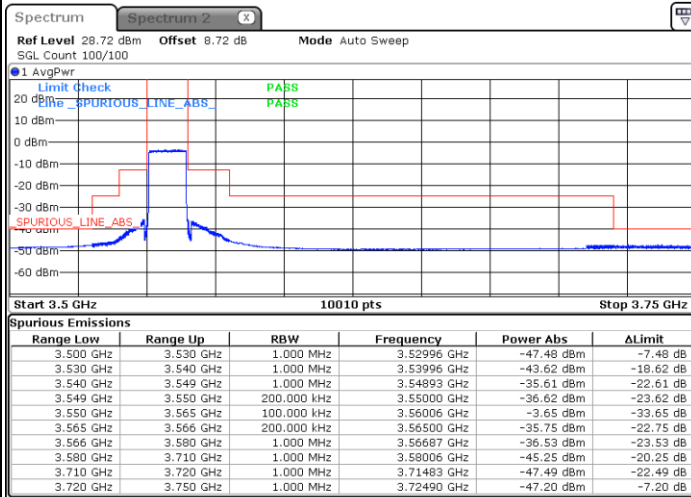
Date: 29.SEP.2022 04:24:57



Date: 29.SEP.2022 04:41:52

## Lowest Channel / FullRB

## N/A



Date: 29.SEP.2022 04:27:14

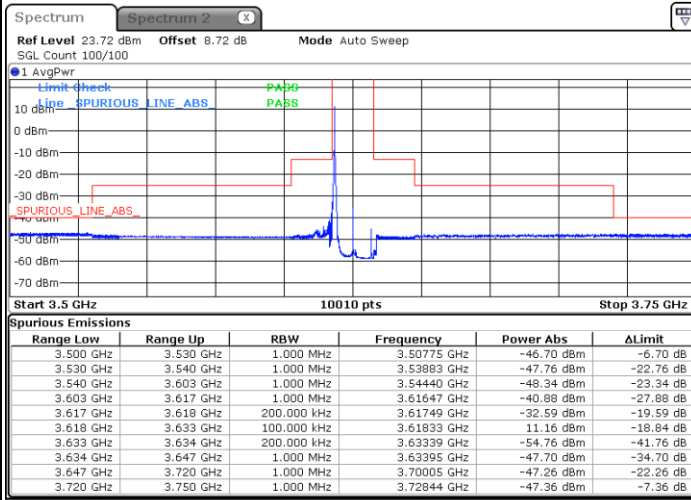


## LTE Band 48 / 15MHz

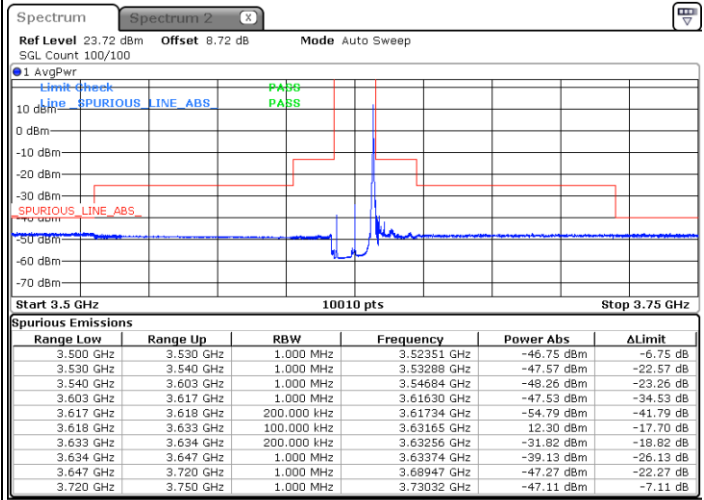
## 256QAM

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



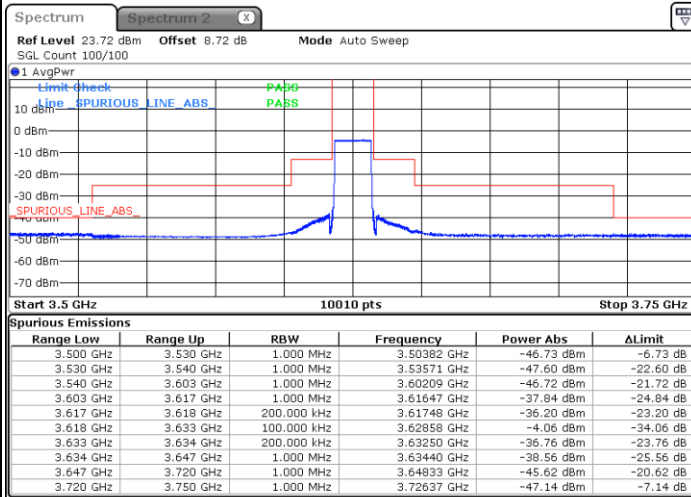
Date: 29.SEP.2022 04:04:37



Date: 29.SEP.2022 04:12:18

## Middle Channel / FullRB

N/A



Date: 29.SEP.2022 04:03:27

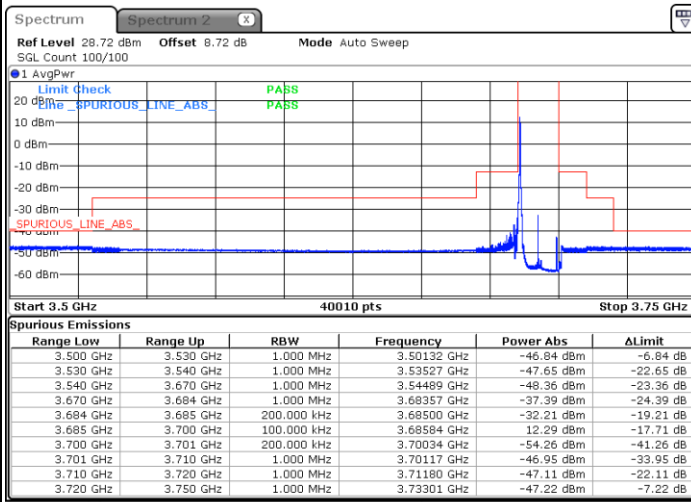


## LTE Band 48 / 15MHz

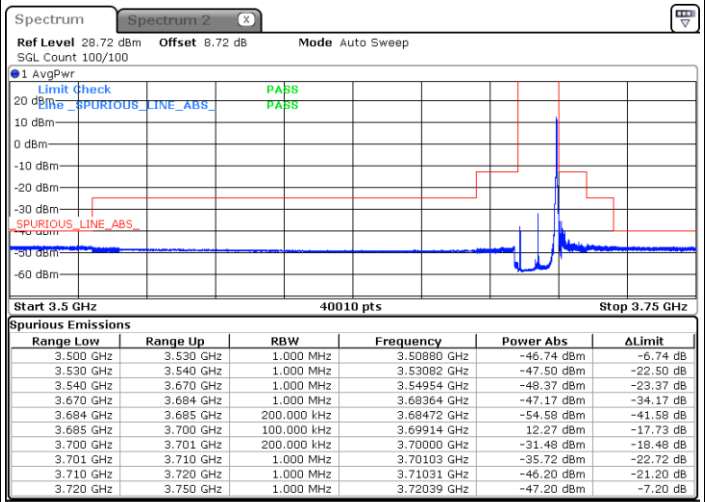
## 256QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



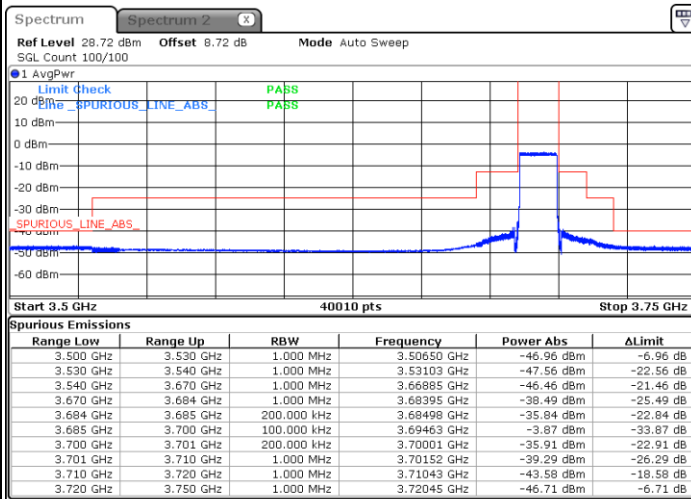
Date: 29.SEP.2022 04:48:14



Date: 29.SEP.2022 04:46:59

## Highest Channel / FullRB

## N/A



Date: 29.SEP.2022 04:56:38

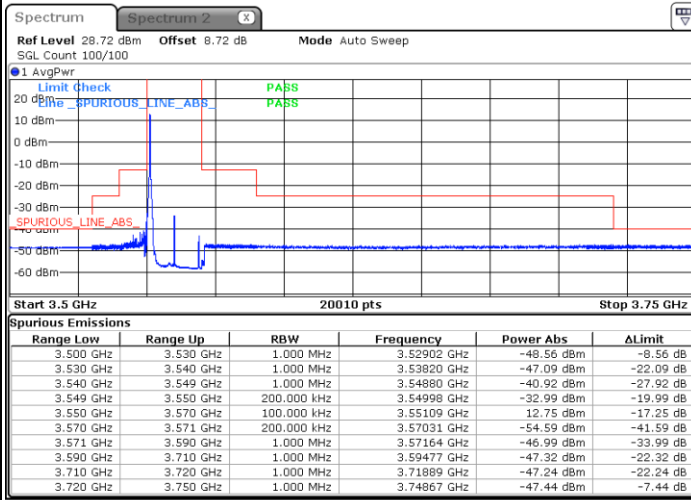


## LTE Band 48 / 20MHz

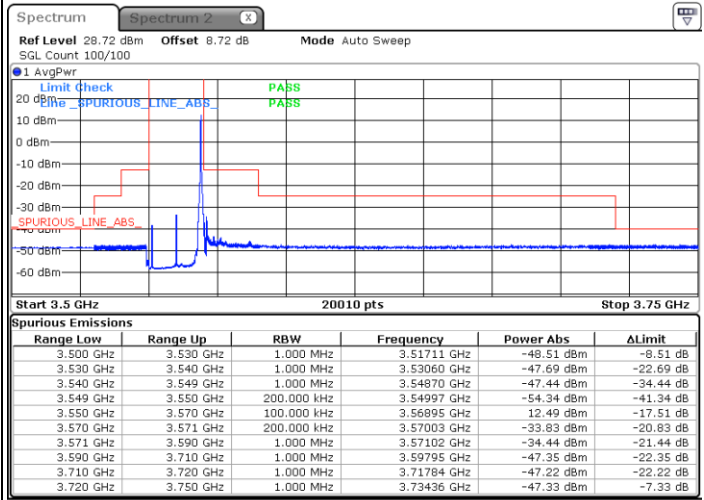
## 256QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



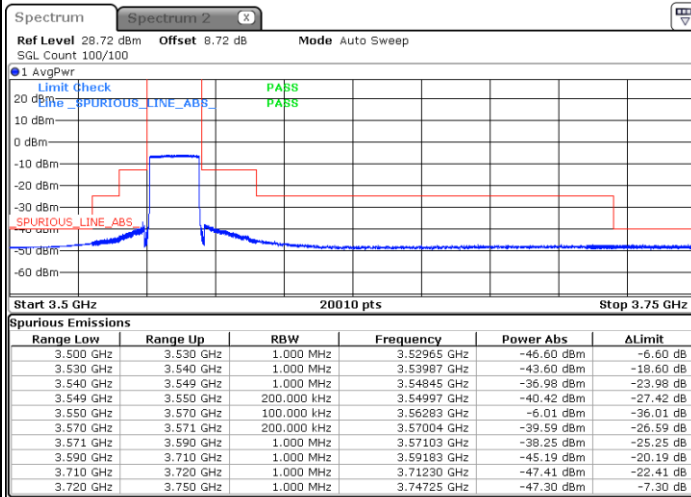
Date: 29.SEP.2022 08:19:39



Date: 29.SEP.2022 08:16:46

## Lowest Channel / FullRB

## N/A



Date: 29.SEP.2022 08:32:00

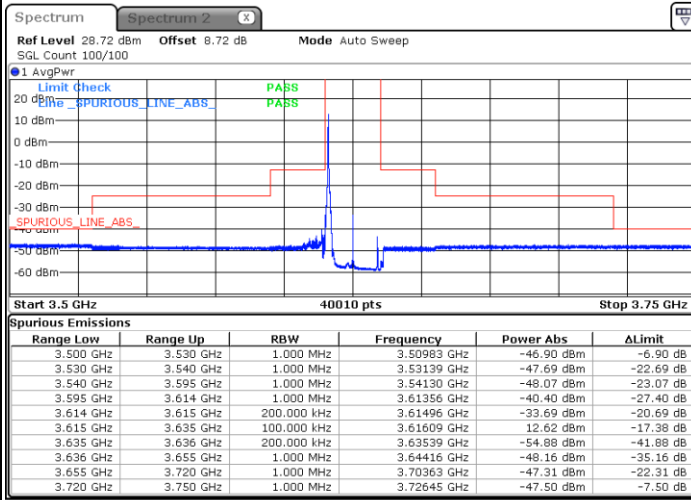


## LTE Band 48 / 20MHz

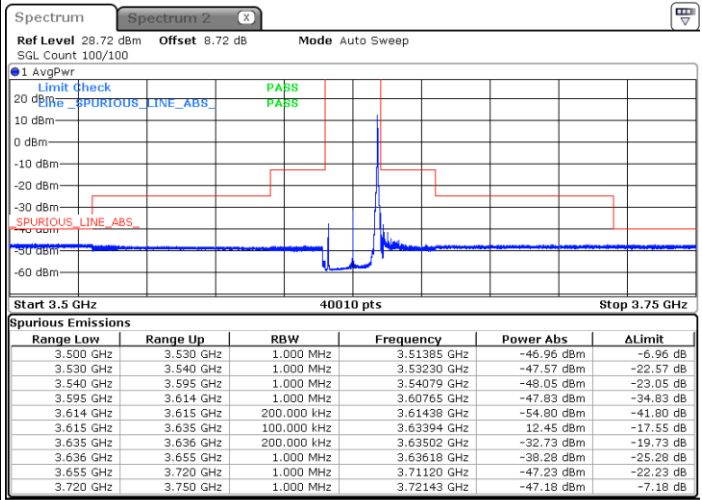
## 256QAM

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



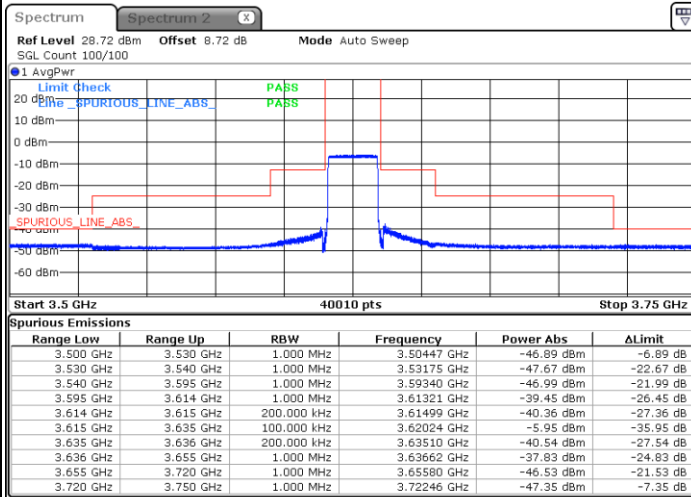
Date: 29.SEP.2022 05:06:31



Date: 29.SEP.2022 08:10:04

## Middle Channel / FullRB

## N/A



Date: 29.SEP.2022 05:05:12

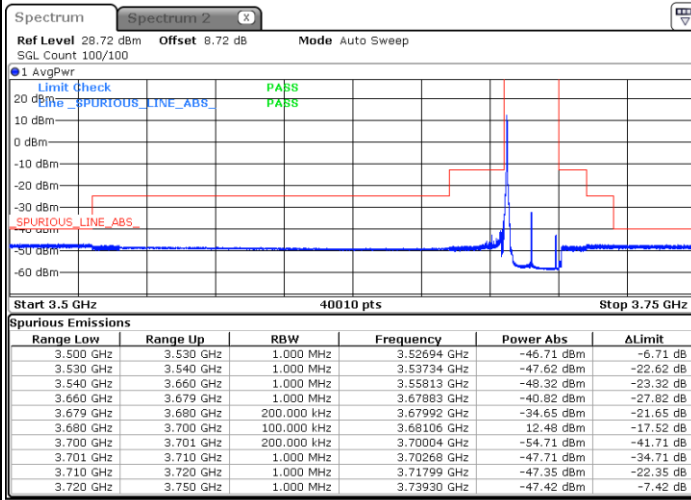


## LTE Band 48 / 20MHz

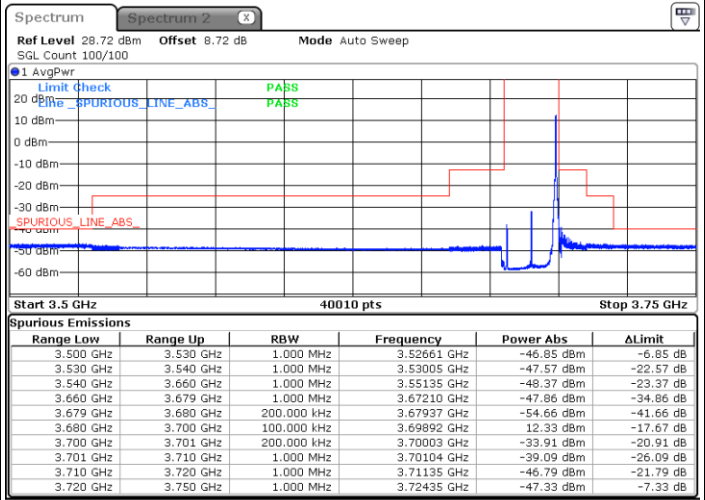
## 256QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



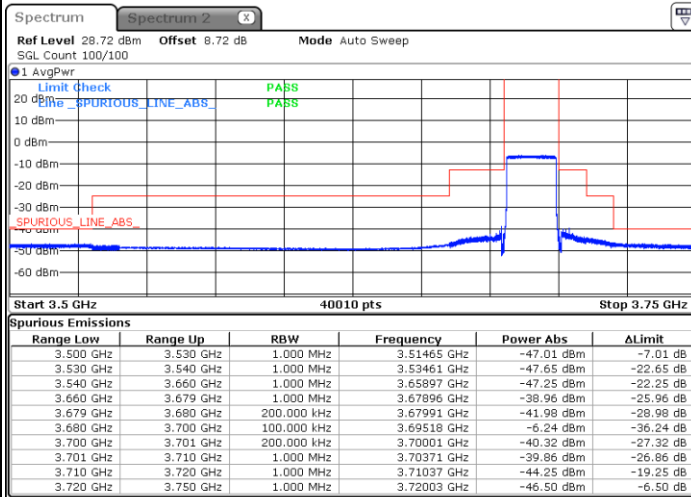
Date: 29.SEP.2022 08:39:20



Date: 29.SEP.2022 08:51:06

## Highest Channel / FullIRB

## N/A



Date: 29.SEP.2022 08:37:53



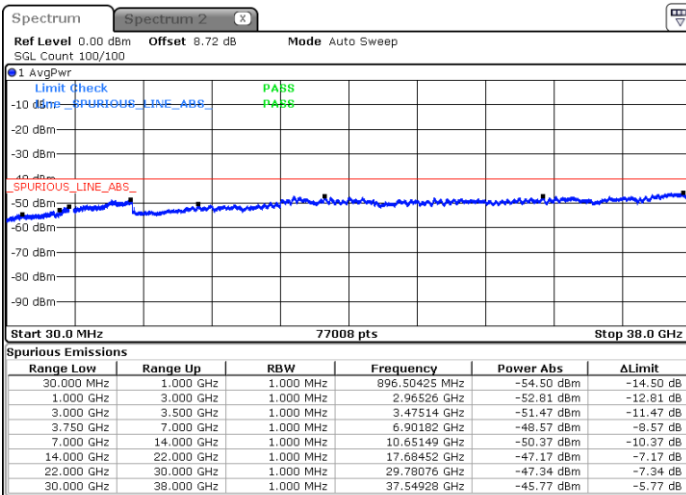
# Conducted Spurious Emission

LTE Band 48 / 5MHz

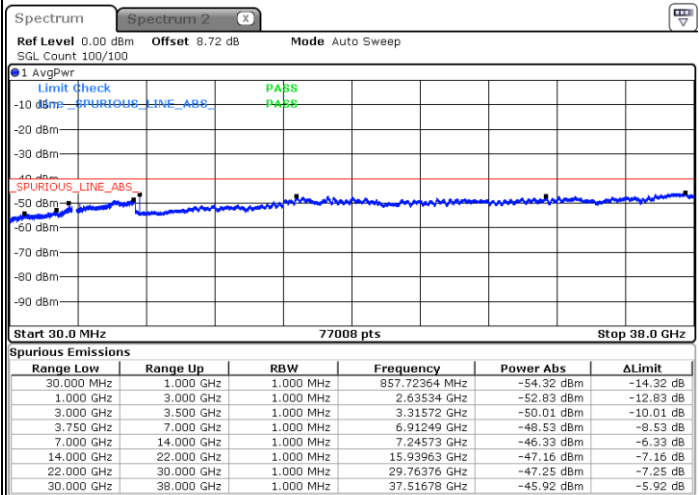
QPSK / 1RB0

Lowest Channel

Middle Channel

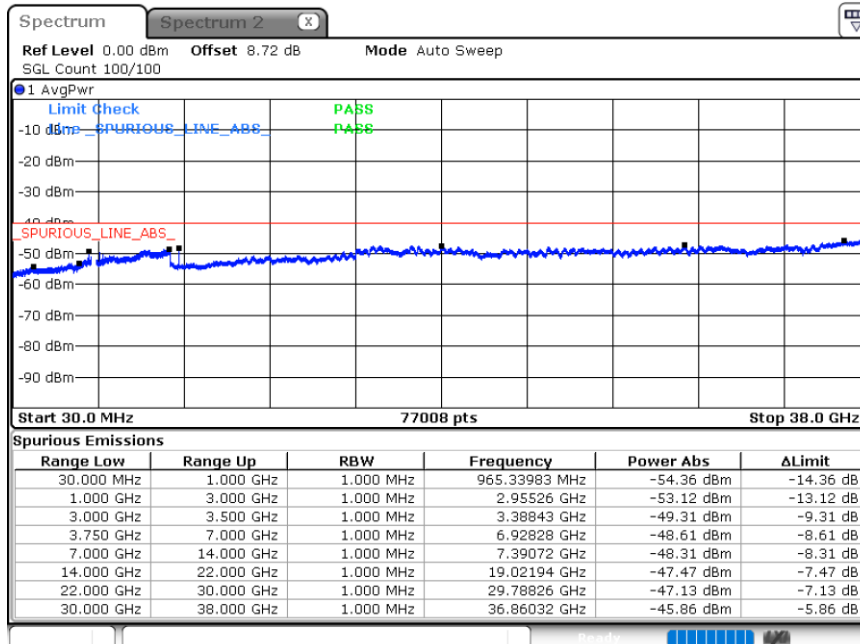


Date: 29.SEP.2022 10:19:25



Date: 29.SEP.2022 10:20:45

Highest Channel



Date: 29.SEP.2022 10:22:57

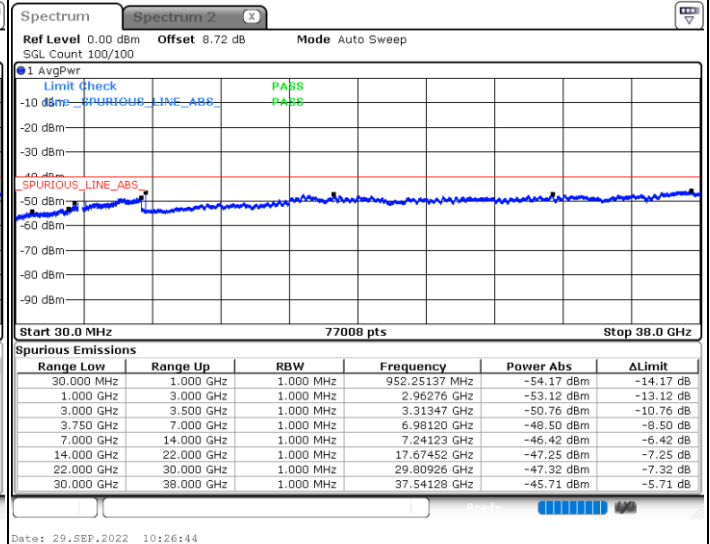
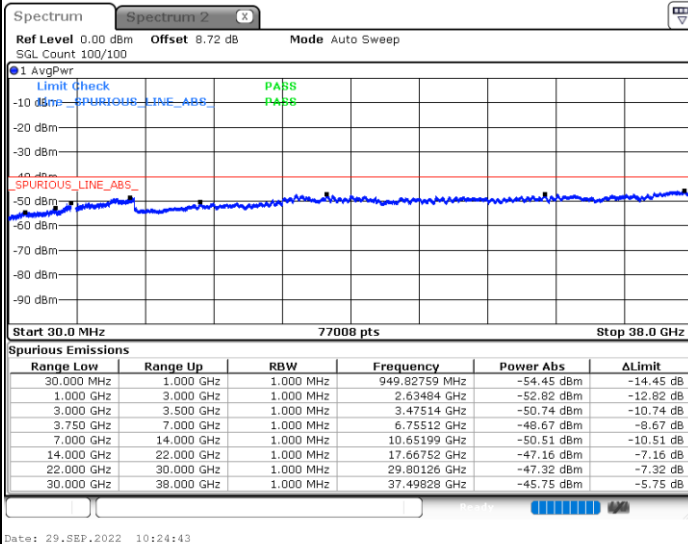


## LTE Band 48 / 10MHz

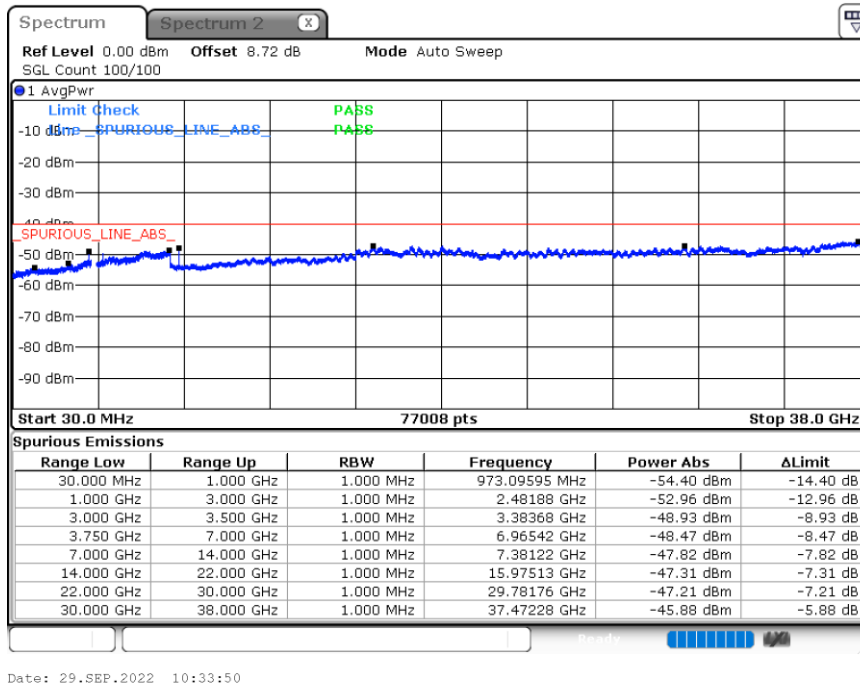
## QPSK / 1RB0

## Lowest Channel

## Middle Channel



## Highest Channel



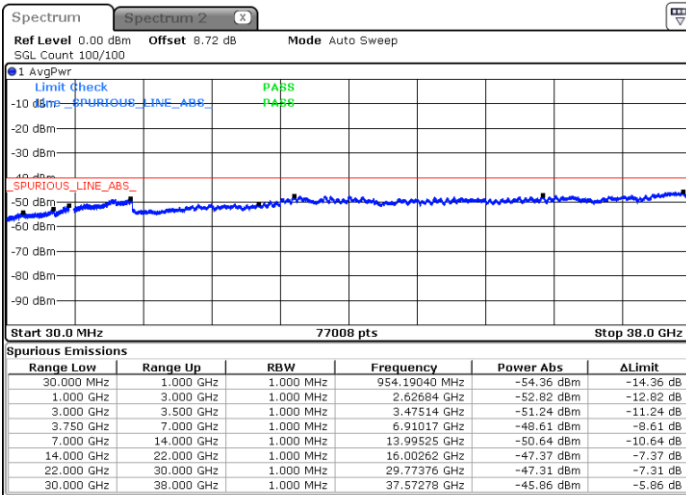


## LTE Band 48 / 15MHz

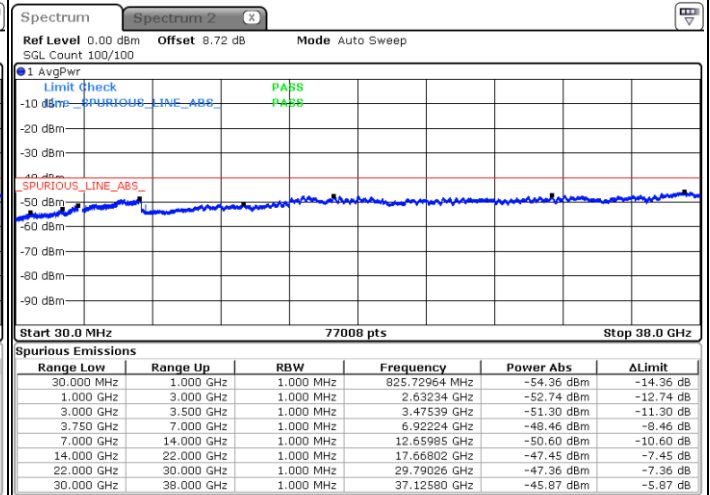
## QPSK / 1RB0

## Lowest Channel

## Middle Channel

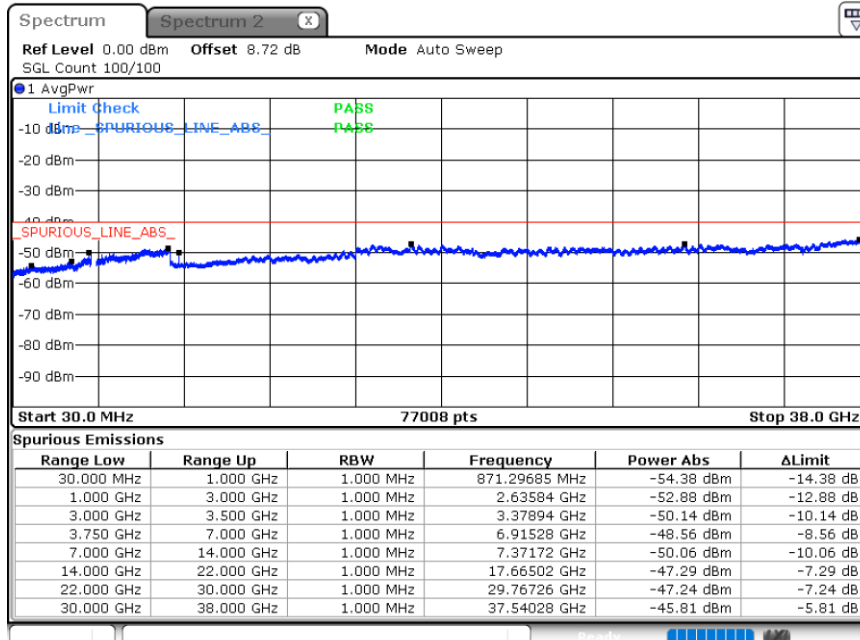


Date: 29.SEP.2022 10:38:08



Date: 29.SEP.2022 10:39:43

## Highest Channel



Date: 29.SEP.2022 10:41:58

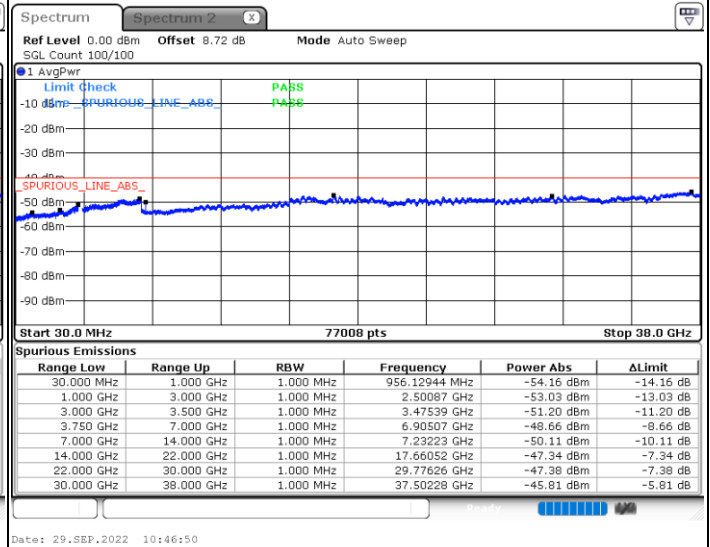
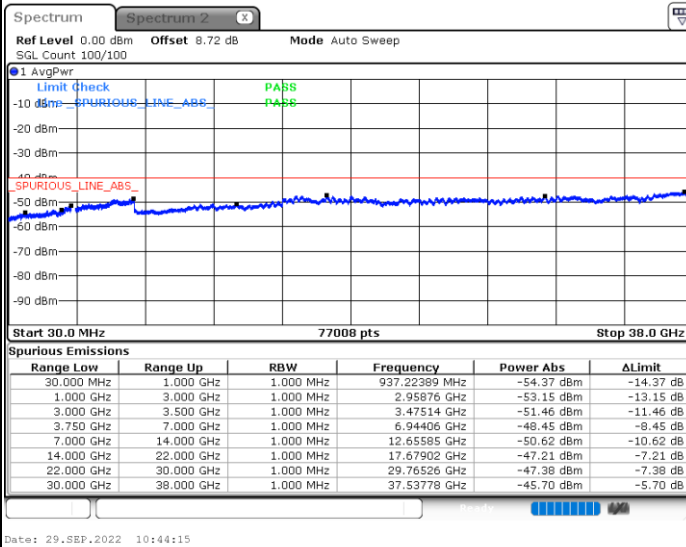


## LTE Band 48 / 20MHz

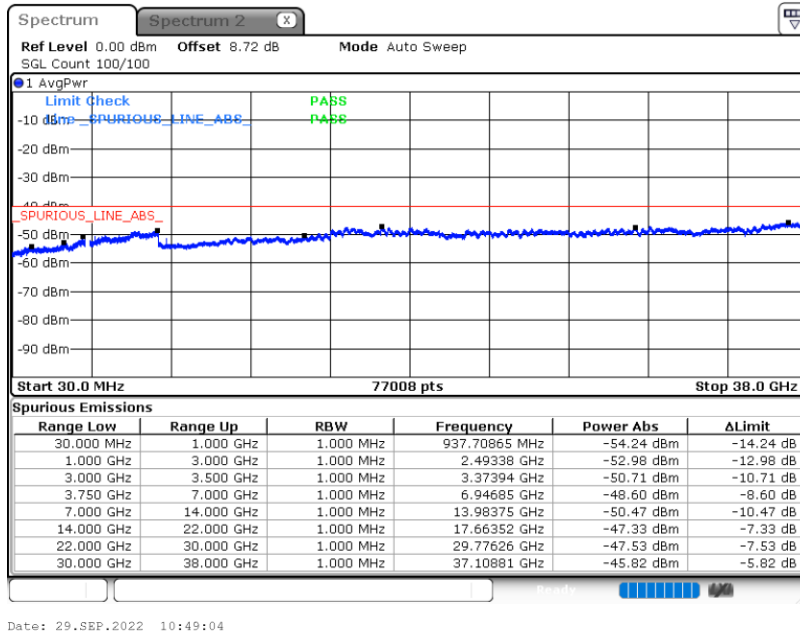
## QPSK / 1RB0

## 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               | Battery End Point | 0.0012                              |         |

**Note:**

1. Normal Voltage =3.88 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.27 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |               |                     |         |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | Zhaohui Liang | Temperature :       | 22~25°C |
|                 |               | Relative Humidity : | 48~52%  |

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

| LTE Band 48 / 20MHz / QPSK(Ant.10) |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                            | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                             | 7332.00              | -58.01          | -40              | -18.01                  | -66.25                  | -61.31                   | 8.30                       | 11.60                       | H                     |
|                                    | 10998.00             | -55.04          | -40              | -15.04                  | -68.83                  | -56.56                   | 10.48                      | 12.00                       | H                     |
|                                    | 14664.00             | -54.26          | -40              | -14.26                  | -69.37                  | -55.96                   | 11.80                      | 13.50                       | H                     |
|                                    | 7332.00              | -57.39          | -40              | -17.39                  | -66.38                  | -60.69                   | 8.30                       | 11.60                       | V                     |
|                                    | 10998.00             | -53.91          | -40              | -13.91                  | -68.46                  | -55.43                   | 10.48                      | 12.00                       | V                     |
|                                    | 14664.00             | -55.25          | -40              | -15.25                  | -70.34                  | -56.95                   | 11.80                      | 13.50                       | V                     |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.