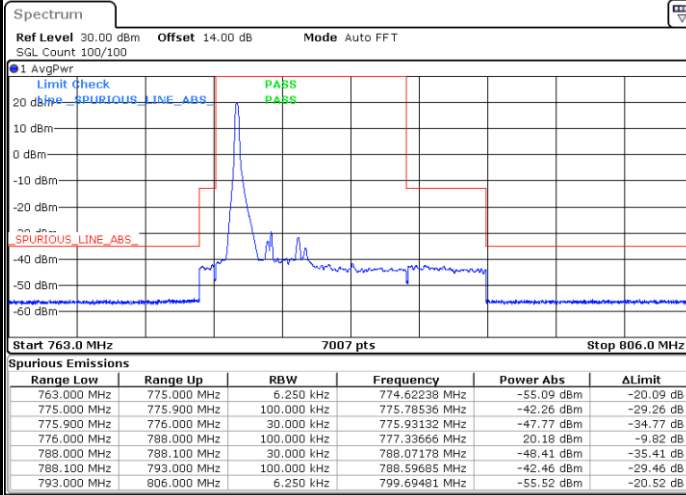




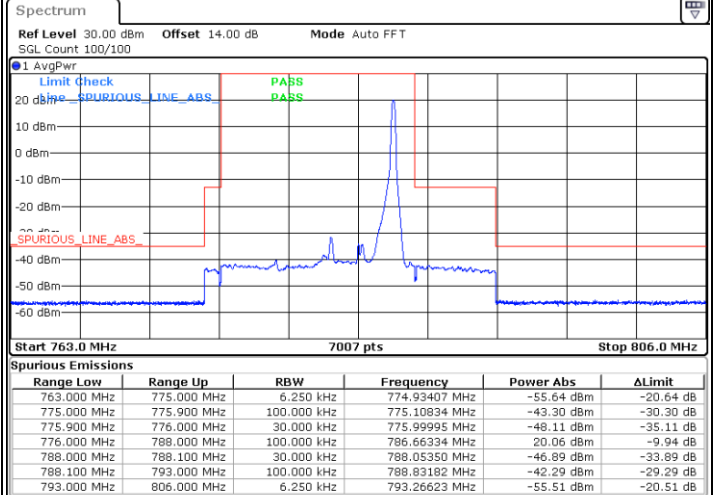
## LTE Band 13 / 5MHz / 64QAM

## Lowest Band Edge / 1 RB



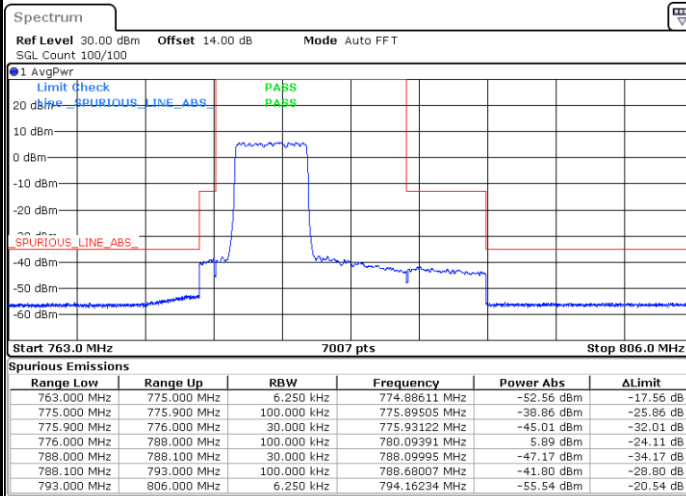
Date: 20 JUN 2025 14:59:49

## Highest Band Edge / 1 RB



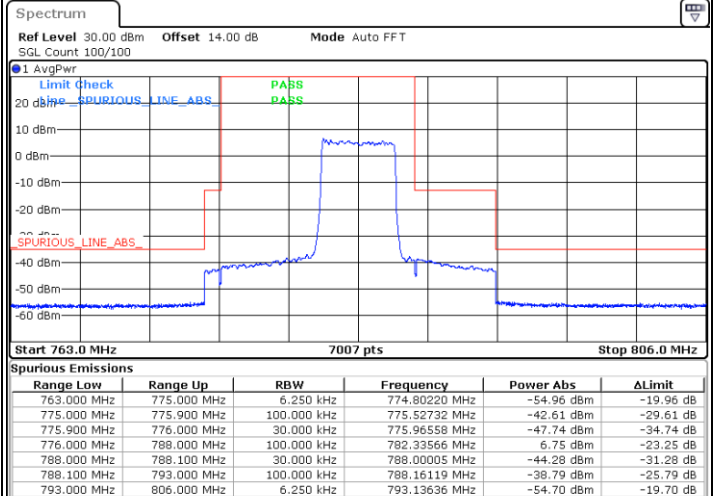
Date: 20 JUN 2025 15:07:12

## Lowest Band Edge / Full RB



Date: 20 JUN 2025 15:01:51

## Highest Band Edge / Full RB

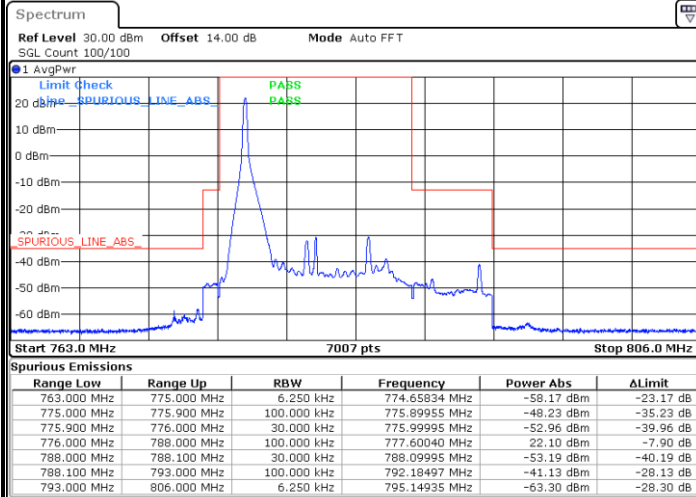


Date: 20 JUN 2025 15:09:13



## LTE Band 13 / 10MHz / QPSK

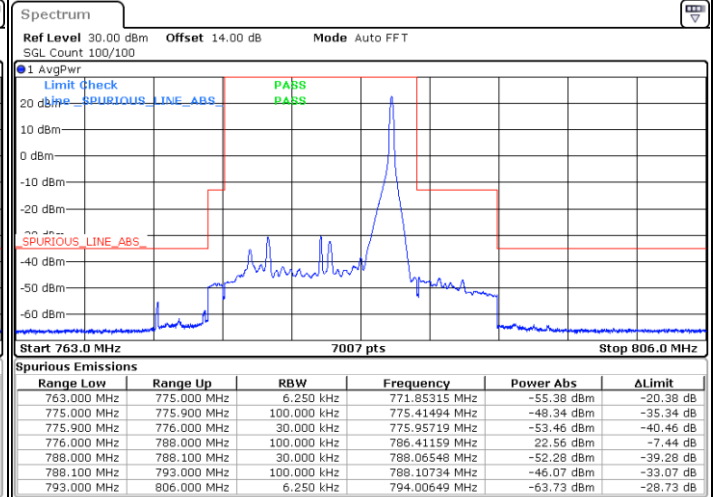
## Band Edge / 1 RB



Date: 20 JUN 2025 15:11:37

## LTE Band 13 / 10MHz / QPSK

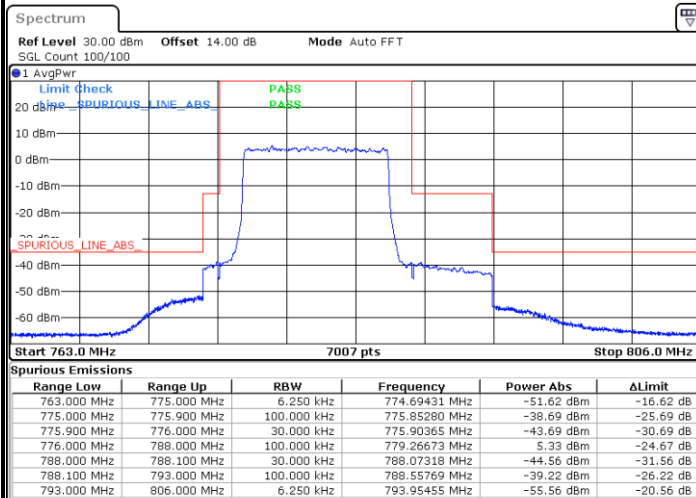
## Band Edge / 1 RB



Date: 20 JUN 2025 15:13:37

## LTE Band 13 / 10MHz / QPSK

## Band Edge / Full RB



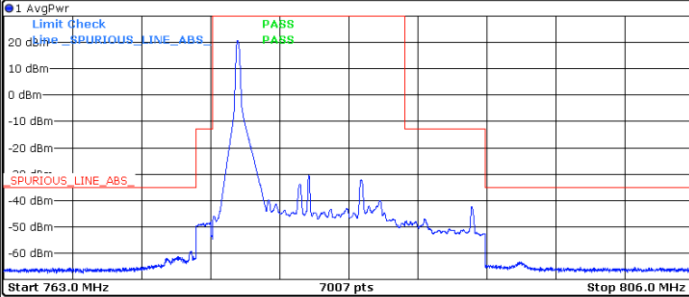
Date: 20 JUN 2025 15:15:37



## LTE Band 13 / 10MHz / 16QAM

## Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT  
SGL Count 100/100

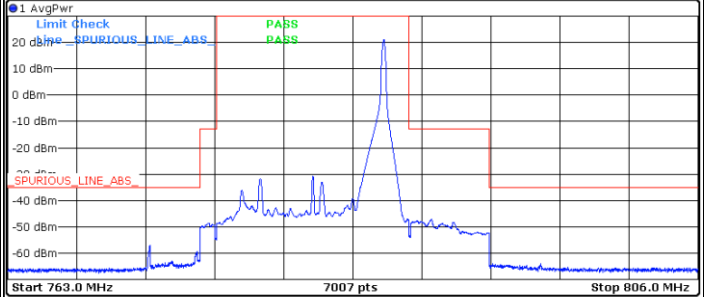
| Range Low   | Range Up    | RBW         | Frequency     | Power Abs  | ΔLimit    |
|-------------|-------------|-------------|---------------|------------|-----------|
| 763.000 MHz | 775.000 MHz | 6.250 kHz   | 774.71828 MHz | -59.44 dBm | -24.44 dB |
| 775.000 MHz | 775.900 MHz | 100.000 kHz | 775.89955 MHz | -48.22 dBm | -35.22 dB |
| 775.900 MHz | 776.000 MHz | 30.000 kHz  | 775.94451 MHz | -53.33 dBm | -40.33 dB |
| 776.000 MHz | 788.000 MHz | 100.000 kHz | 777.55245 MHz | 20.73 dBm  | -9.27 dB  |
| 788.000 MHz | 788.100 MHz | 30.000 kHz  | 788.09995 MHz | -47.66 dBm | -34.66 dB |
| 788.100 MHz | 793.000 MHz | 100.000 kHz | 792.16049 MHz | -42.33 dBm | -29.33 dB |
| 793.000 MHz | 806.000 MHz | 6.250 kHz   | 795.21429 MHz | -63.38 dBm | -28.38 dB |

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## LTE Band 13 / 10MHz / 16QAM

## Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT  
SGL Count 100/100

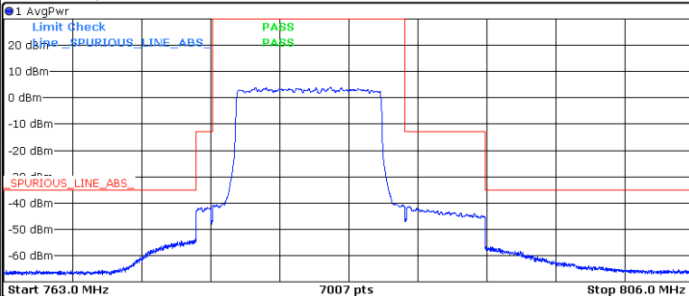
| Range Low   | Range Up    | RBW         | Frequency     | Power Abs  | ΔLimit    |
|-------------|-------------|-------------|---------------|------------|-----------|
| 763.000 MHz | 775.000 MHz | 6.250 kHz   | 771.86513 MHz | -56.96 dBm | -21.96 dB |
| 775.000 MHz | 775.900 MHz | 100.000 kHz | 775.50395 MHz | -48.66 dBm | -35.66 dB |
| 775.900 MHz | 776.000 MHz | 30.000 kHz  | 775.90005 MHz | -54.36 dBm | -41.36 dB |
| 776.000 MHz | 788.000 MHz | 100.000 kHz | 786.42359 MHz | 21.00 dBm  | -9.00 dB  |
| 788.000 MHz | 788.100 MHz | 30.000 kHz  | 788.01703 MHz | -53.30 dBm | -40.30 dB |
| 788.100 MHz | 793.000 MHz | 100.000 kHz | 789.38497 MHz | -47.22 dBm | -34.22 dB |
| 793.000 MHz | 806.000 MHz | 6.250 kHz   | 793.20130 MHz | -64.14 dBm | -29.14 dB |

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## LTE Band 13 / 10MHz / 16QAM

## Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT  
SGL Count 100/100

| Range Low   | Range Up    | RBW         | Frequency     | Power Abs  | ΔLimit    |
|-------------|-------------|-------------|---------------|------------|-----------|
| 763.000 MHz | 775.000 MHz | 6.250 kHz   | 774.93407 MHz | -53.72 dBm | -18.72 dB |
| 775.000 MHz | 775.900 MHz | 100.000 kHz | 775.30435 MHz | -41.74 dBm | -28.74 dB |
| 775.900 MHz | 776.000 MHz | 30.000 kHz  | 775.90644 MHz | -46.71 dBm | -33.71 dB |
| 776.000 MHz | 788.000 MHz | 100.000 kHz | 783.34266 MHz | 3.94 dBm   | -26.06 dB |
| 788.000 MHz | 788.100 MHz | 30.000 kHz  | 788.07827 MHz | -45.62 dBm | -32.62 dB |
| 788.100 MHz | 793.000 MHz | 100.000 kHz | 788.28357 MHz | -41.36 dBm | -28.36 dB |
| 793.000 MHz | 806.000 MHz | 6.250 kHz   | 793.40909 MHz | -56.61 dBm | -21.61 dB |

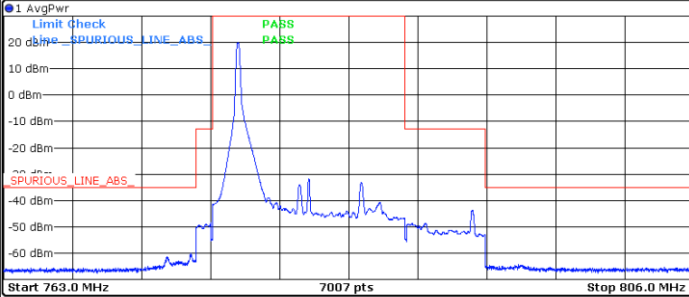
Date: 20.JUN.2025 15:16:17



## LTE Band 13 / 10MHz / 64QAM

## Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT  
SGL Count 100/100

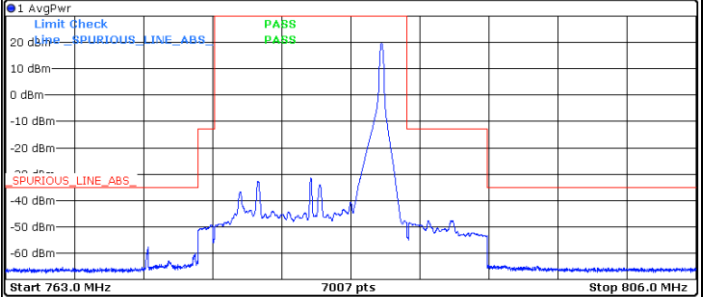
| Range Low   | Range Up    | RBW         | Frequency     | Power Abs  | ΔLimit    |
|-------------|-------------|-------------|---------------|------------|-----------|
| 763.000 MHz | 775.000 MHz | 6.250 kHz   | 774.64635 MHz | -60.07 dBm | -25.07 dB |
| 775.000 MHz | 775.900 MHz | 100.000 kHz | 775.89955 MHz | -48.52 dBm | -35.52 dB |
| 775.900 MHz | 776.000 MHz | 30.000 kHz  | 775.92193 MHz | -54.63 dBm | -41.63 dB |
| 776.000 MHz | 788.000 MHz | 100.000 kHz | 777.58841 MHz | 19.93 dBm  | -10.07 dB |
| 788.000 MHz | 788.100 MHz | 30.000 kHz  | 788.05719 MHz | -54.66 dBm | -41.66 dB |
| 788.100 MHz | 793.000 MHz | 100.000 kHz | 792.18007 MHz | -43.71 dBm | -30.71 dB |
| 793.000 MHz | 806.000 MHz | 6.250 kHz   | 795.04545 MHz | -64.40 dBm | -29.40 dB |

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## LTE Band 13 / 10MHz / 64QAM

## Band Edge / 1 RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT  
SGL Count 100/100

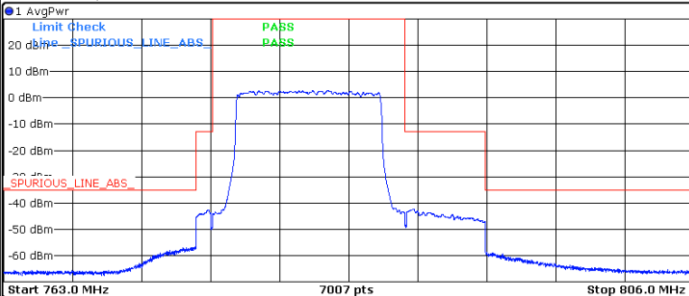
| Range Low   | Range Up    | RBW         | Frequency     | Power Abs  | ΔLimit    |
|-------------|-------------|-------------|---------------|------------|-----------|
| 763.000 MHz | 775.000 MHz | 6.250 kHz   | 771.86513 MHz | -57.70 dBm | -22.70 dB |
| 775.000 MHz | 775.900 MHz | 100.000 kHz | 775.78806 MHz | -49.42 dBm | -36.42 dB |
| 775.900 MHz | 776.000 MHz | 30.000 kHz  | 775.99995 MHz | -54.70 dBm | -41.70 dB |
| 776.000 MHz | 788.000 MHz | 100.000 kHz | 786.39960 MHz | 19.66 dBm  | -10.34 dB |
| 788.000 MHz | 788.100 MHz | 30.000 kHz  | 788.00005 MHz | -54.04 dBm | -41.04 dB |
| 788.100 MHz | 793.000 MHz | 100.000 kHz | 790.74580 MHz | -47.82 dBm | -34.82 dB |
| 793.000 MHz | 806.000 MHz | 6.250 kHz   | 793.05844 MHz | -64.74 dBm | -29.74 dB |

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## LTE Band 13 / 10MHz / 64QAM

## Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.00 dB Mode Auto FFT  
SGL Count 100/100

| Range Low   | Range Up    | RBW         | Frequency     | Power Abs  | ΔLimit    |
|-------------|-------------|-------------|---------------|------------|-----------|
| 763.000 MHz | 775.000 MHz | 6.250 kHz   | 774.99810 MHz | -56.75 dBm | -21.75 dB |
| 775.000 MHz | 775.900 MHz | 100.000 kHz | 775.73591 MHz | -42.63 dBm | -29.63 dB |
| 775.900 MHz | 776.000 MHz | 30.000 kHz  | 775.99995 MHz | -48.65 dBm | -35.65 dB |
| 776.000 MHz | 788.000 MHz | 100.000 kHz | 782.25175 MHz | 2.73 dBm   | -27.27 dB |
| 788.000 MHz | 788.100 MHz | 30.000 kHz  | 788.09995 MHz | -47.94 dBm | -34.94 dB |
| 788.100 MHz | 793.000 MHz | 100.000 kHz | 788.52832 MHz | -42.37 dBm | -29.37 dB |
| 793.000 MHz | 806.000 MHz | 6.250 kHz   | 793.00649 MHz | -58.77 dBm | -23.77 dB |

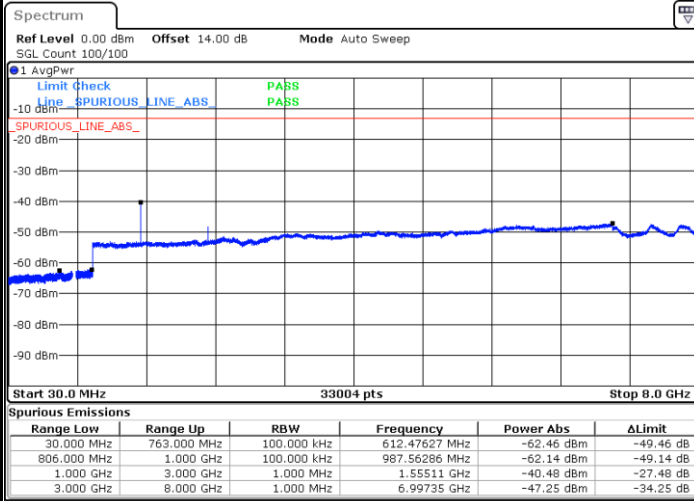
Date: 20.JUN.2025 15:16:57



# Conducted Spurious Emission

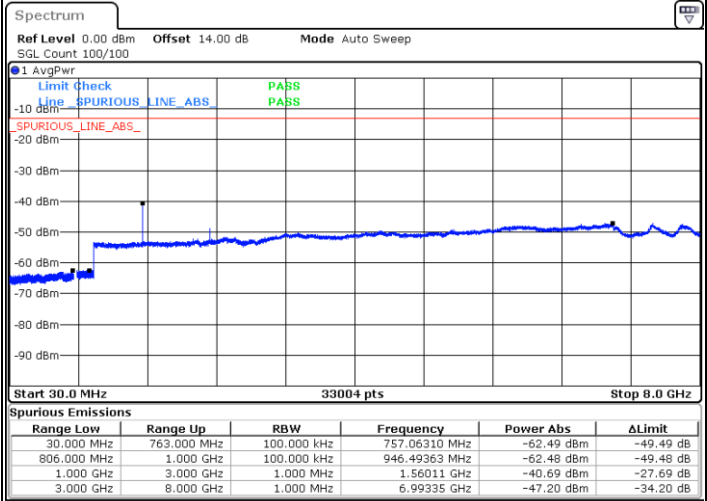
## LTE Band 13 / 5MHz

### Lowest Channel / QPSK



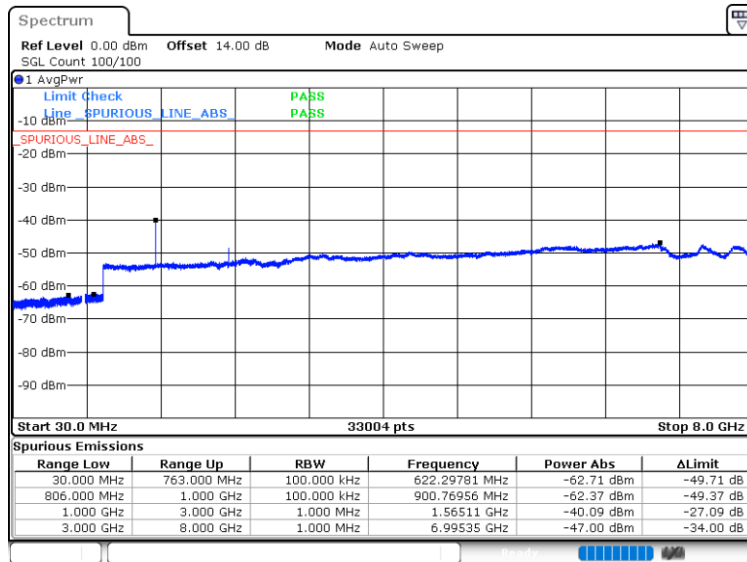
Date: 20.JUN.2025 15:02:51

### Middle Channel / QPSK



Date: 20.JUN.2025 15:03:50

### Highest Channel / QPSK

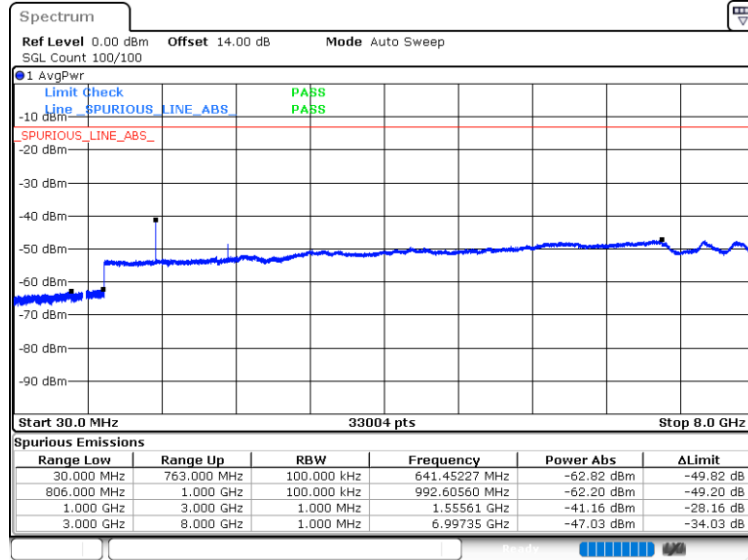


Date: 20.JUN.2025 15:10:13



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 20 JUN 2025 15:17:56

## 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    | 0.0003                              | PASS    |
| 40               | Normal Voltage    | 0.0006                              |         |
| 30               | Normal Voltage    | 0.0001                              |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                              |         |
| 10               | Normal Voltage    | 0.0019                              |         |
| 0                | Normal Voltage    | 0.0010                              |         |
| -10              | Normal Voltage    | 0.0012                              |         |
| -20              | Normal Voltage    | 0.0018                              |         |
| -30              | Normal Voltage    | 0.0028                              |         |
| 20               | Maximum Voltage   | 0.0015                              |         |
| 20               | Normal Voltage    | 0.0000                              |         |
| 20               | Battery End Point | 0.0024                              |         |

**Note:**

1. Normal Voltage =3.92 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.53 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

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

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

| LTE Band 12 / 10MHz / QPSK / ANT1 |                   |             |               |                   |                   |                    |                      |                       |                    |
|-----------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                           | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                            | 1406              | -64.20      | -13           | -51.20            | -74.28            | -67.45             | 4.00                 | 9.40                  | H                  |
|                                   | 2109              | -62.76      | -13           | -49.76            | -75.59            | -66.33             | 4.88                 | 10.60                 | H                  |
|                                   | 2812              | -61.73      | -13           | -48.73            | -77.03            | -66.66             | 5.52                 | 12.60                 | H                  |
|                                   | 1406              | -64.19      | -13           | -51.19            | -73.83            | -67.44             | 4.00                 | 9.40                  | V                  |
|                                   | 2109              | -63.04      | -13           | -50.04            | -75.82            | -66.61             | 4.88                 | 10.60                 | V                  |
|                                   | 2812              | -61.38      | -13           | -48.38            | -76.87            | -66.31             | 5.52                 | 12.60                 | V                  |

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

| LTE Band 13 / 5MHz / QPSK / ANT0 |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                          | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                           | 1559.5            | -65.13      | -42.15        | -22.98            | -74.68            | -68.38             | 4.00                 | 9.40                  | H                  |
|                                  | 2339.25           | -62.57      | -13           | -49.57            | -76.89            | -66.14             | 4.88                 | 10.60                 | H                  |
|                                  | 3119              | -61.15      | -13           | -48.15            | -77.63            | -66.08             | 5.52                 | 12.60                 | H                  |
|                                  | 1559.5            | -64.87      | -42.15        | -22.72            | -74.50            | -68.12             | 4.00                 | 9.40                  | V                  |
|                                  | 2339.25           | -62.84      | -13           | -49.84            | -77.16            | -66.41             | 4.88                 | 10.60                 | V                  |
|                                  | 3119              | -61.14      | -13           | -48.14            | -77.66            | -66.07             | 5.52                 | 12.60                 | V                  |

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

| LTE Band 13 / 10MHz / QPSK / ANT0 |                   |             |               |                   |                   |                    |                      |                       |                    |
|-----------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                           | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                            | 1559.5            | -65.50      | -42.15        | -23.35            | -75.05            | -68.75             | 4.00                 | 9.40                  | H                  |
|                                   | 2339.25           | -62.94      | -13           | -49.94            | -77.26            | -66.51             | 4.88                 | 10.60                 | H                  |
|                                   | 3119              | -61.16      | -13           | -48.16            | -77.64            | -66.09             | 5.52                 | 12.60                 | H                  |
|                                   | 1559.5            | -65.31      | -42.15        | -23.16            | -74.94            | -68.56             | 4.00                 | 9.40                  | V                  |
|                                   | 2339.25           | -62.81      | -13           | -49.81            | -77.13            | -66.38             | 4.88                 | 10.60                 | V                  |
|                                   | 3119              | -61.27      | -13           | -48.27            | -77.79            | -66.20             | 5.52                 | 12.60                 | V                  |

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