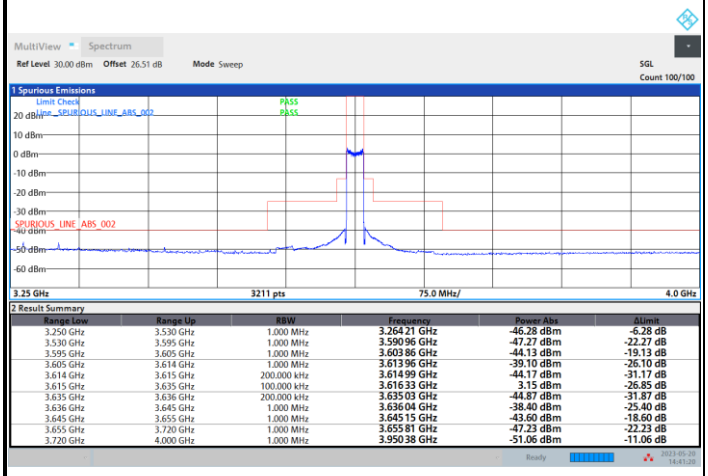
## LTE B48 / 20MHz / Middle Channel / MASK

### QPSK




2 Result Summary

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.250 GHz | 3.530 GHz | 1.000 MHz | 3.264 21 GHz | -46.28 dBm | -6.28 dB |
| 3.530 GHz | 3.595 GHz | 1.000 MHz | 3.590 96 GHz | -47.27 dBm | -22.27 dB |
| 3.595 GHz | 3.605 GHz | 1.000 MHz | 3.603 86 GHz | -44.13 dBm | -19.13 dB |
| 3.605 GHz | 3.614 GHz | 1.000 MHz | 3.613 96 GHz | -39.10 dBm | -26.10 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.614 99 GHz | -44.17 dBm | -31.17 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.616 33 GHz | 3.15 dBm | -26.85 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.635 03 GHz | -44.87 dBm | -31.87 dB |
| 3.636 GHz | 3.645 GHz | 1.000 MHz | 3.636 04 GHz | -38.40 dBm | -25.40 dB |
| 3.645 GHz | 3.655 GHz | 1.000 MHz | 3.645 15 GHz | -43.60 dBm | -18.60 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.655 81 GHz | -47.23 dBm | -22.23 dB |
| 3.720 GHz | 4.000 GHz | 1.000 MHz | 3.950 38 GHz | -51.06 dBm | -11.06 dB |

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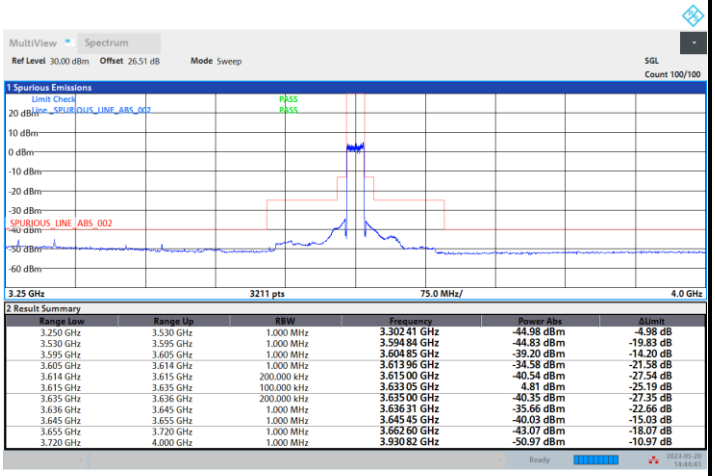
### 16QAM




2 Result Summary

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.250 GHz | 3.530 GHz | 1.000 MHz | 3.302 41 GHz | -44.98 dBm | -4.98 dB |
| 3.530 GHz | 3.595 GHz | 1.000 MHz | 3.594 84 GHz | -44.83 dBm | -19.83 dB |
| 3.595 GHz | 3.605 GHz | 1.000 MHz | 3.604 85 GHz | -39.20 dBm | -14.20 dB |
| 3.605 GHz | 3.614 GHz | 1.000 MHz | 3.613 96 GHz | -34.58 dBm | -21.58 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.615 00 GHz | -40.54 dBm | -27.54 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.633 05 GHz | 4.81 dBm | -25.19 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.635 00 GHz | -40.35 dBm | -27.35 dB |
| 3.636 GHz | 3.645 GHz | 1.000 MHz | 3.636 31 GHz | -35.66 dBm | -22.66 dB |
| 3.645 GHz | 3.655 GHz | 1.000 MHz | 3.645 45 GHz | -40.03 dBm | -15.03 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.662 60 GHz | -43.07 dBm | -18.07 dB |
| 3.720 GHz | 4.000 GHz | 1.000 MHz | 3.930 82 GHz | -50.97 dBm | -10.97 dB |

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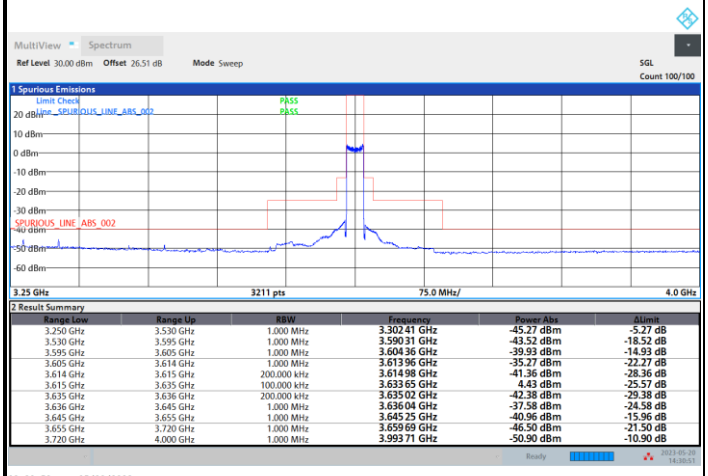
### 64QAM




2 Result Summary

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.250 GHz | 3.530 GHz | 1.000 MHz | 3.302 41 GHz | -45.27 dBm | -5.27 dB |
| 3.530 GHz | 3.595 GHz | 1.000 MHz | 3.590 31 GHz | -43.52 dBm | -18.52 dB |
| 3.595 GHz | 3.605 GHz | 1.000 MHz | 3.604 36 GHz | -39.93 dBm | -14.93 dB |
| 3.605 GHz | 3.614 GHz | 1.000 MHz | 3.613 96 GHz | -35.27 dBm | -22.27 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.614 98 GHz | -41.36 dBm | -28.36 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.633 65 GHz | 4.43 dBm | -25.57 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.635 02 GHz | -42.38 dBm | -29.38 dB |
| 3.636 GHz | 3.645 GHz | 1.000 MHz | 3.636 04 GHz | -37.58 dBm | -24.58 dB |
| 3.645 GHz | 3.655 GHz | 1.000 MHz | 3.645 25 GHz | -40.96 dBm | -15.96 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.659 69 GHz | -46.50 dBm | -21.50 dB |
| 3.720 GHz | 4.000 GHz | 1.000 MHz | 3.993 71 GHz | -50.90 dBm | -10.90 dB |

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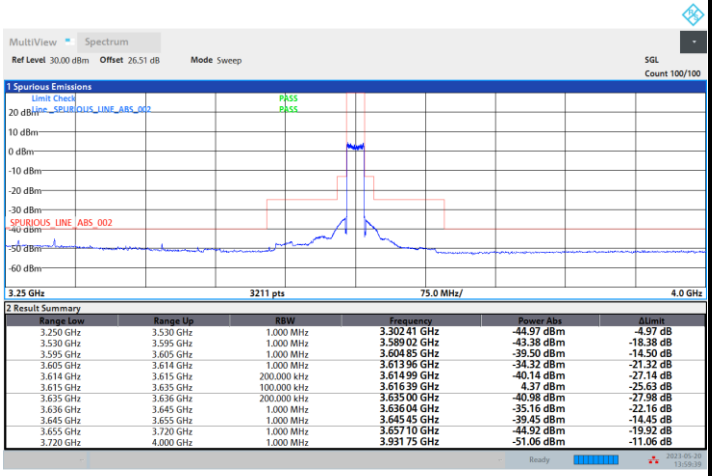
### 256QAM




2 Result Summary

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 3.250 GHz | 3.530 GHz | 1.000 MHz | 3.302 41 GHz | -44.97 dBm | -4.97 dB |
| 3.530 GHz | 3.595 GHz | 1.000 MHz | 3.589 02 GHz | -43.38 dBm | -18.38 dB |
| 3.595 GHz | 3.605 GHz | 1.000 MHz | 3.604 85 GHz | -39.50 dBm | -14.50 dB |
| 3.605 GHz | 3.614 GHz | 1.000 MHz | 3.613 96 GHz | -34.32 dBm | -21.32 dB |
| 3.614 GHz | 3.615 GHz | 200.000 kHz | 3.614 99 GHz | -40.14 dBm | -27.14 dB |
| 3.615 GHz | 3.635 GHz | 100.000 kHz | 3.616 39 GHz | 4.37 dBm | -25.63 dB |
| 3.635 GHz | 3.636 GHz | 200.000 kHz | 3.635 00 GHz | -40.98 dBm | -27.98 dB |
| 3.636 GHz | 3.645 GHz | 1.000 MHz | 3.636 04 GHz | -35.16 dBm | -22.16 dB |
| 3.645 GHz | 3.655 GHz | 1.000 MHz | 3.645 45 GHz | -39.45 dBm | -14.45 dB |
| 3.655 GHz | 3.720 GHz | 1.000 MHz | 3.657 10 GHz | -44.92 dBm | -19.92 dB |
| 3.720 GHz | 4.000 GHz | 1.000 MHz | 3.931 75 GHz | -51.06 dBm | -11.06 dB |

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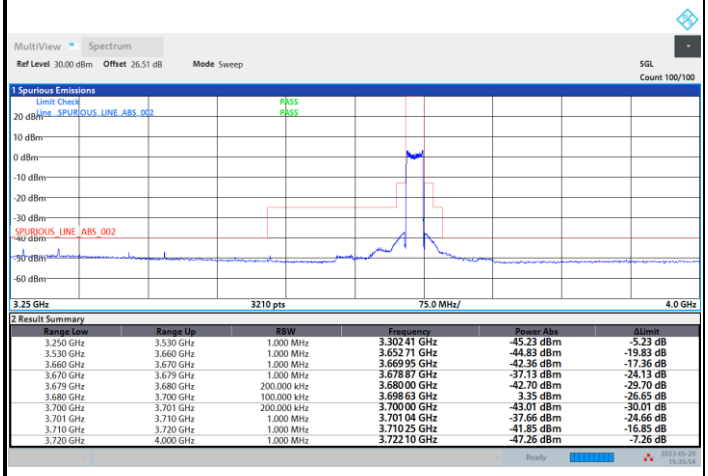
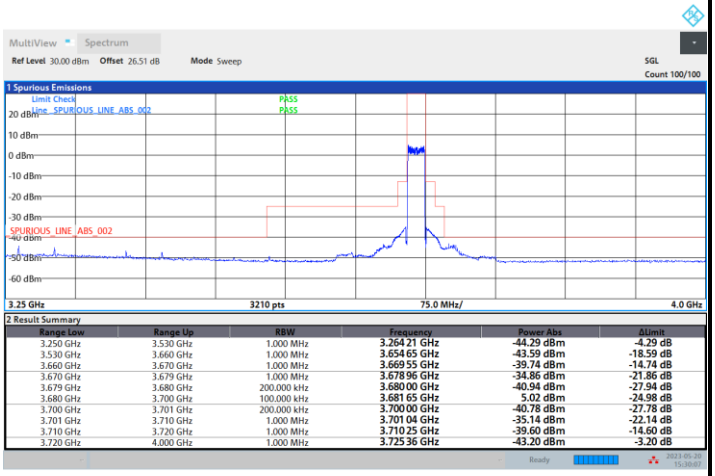
## LTE B48 / 20MHz / Highest Channel / MASK

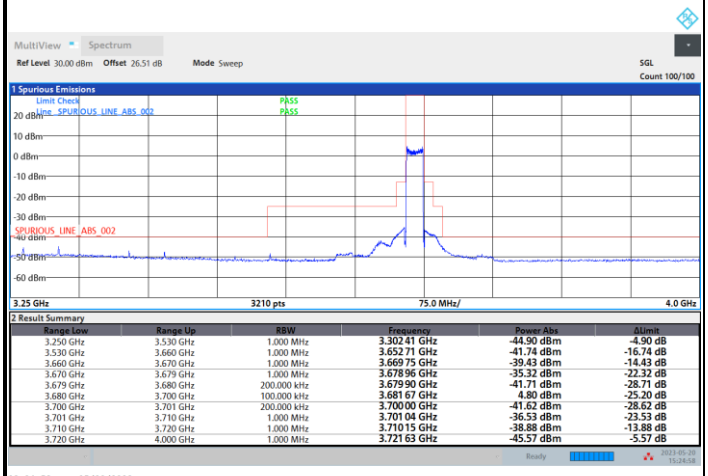
### QPSK



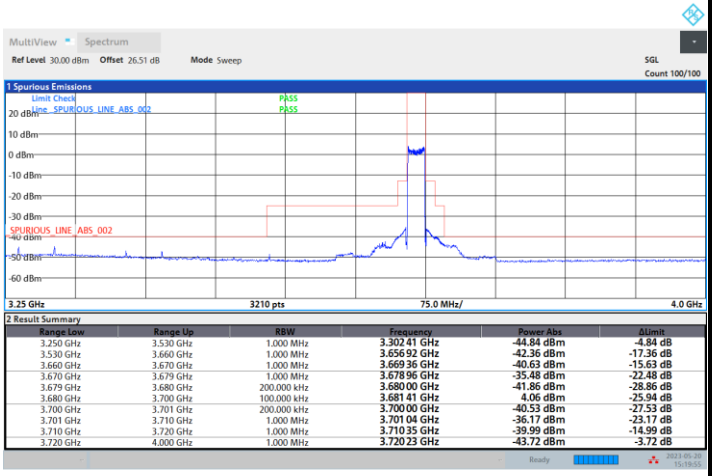

### 16QAM




### 64QAM



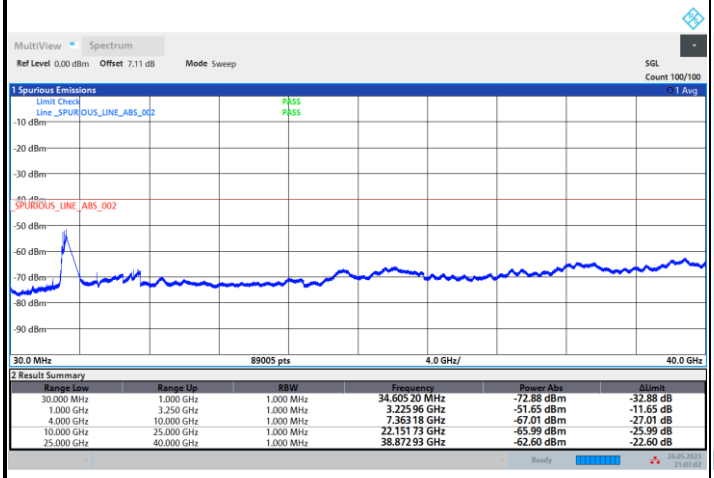

### 256QAM



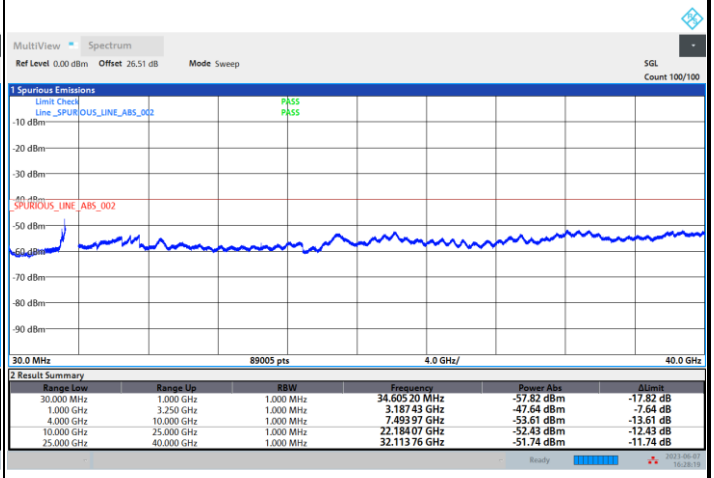
# Conducted Spurious Emission

## LTE B48 / 10MHz / QPSK / CSE

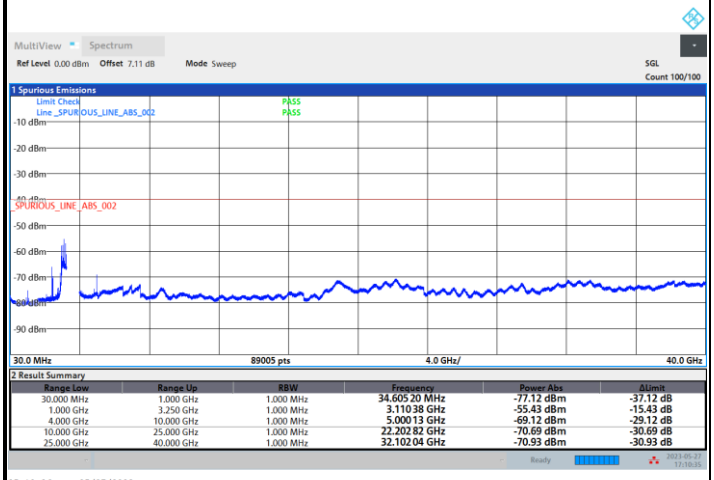
### Lowest Channel

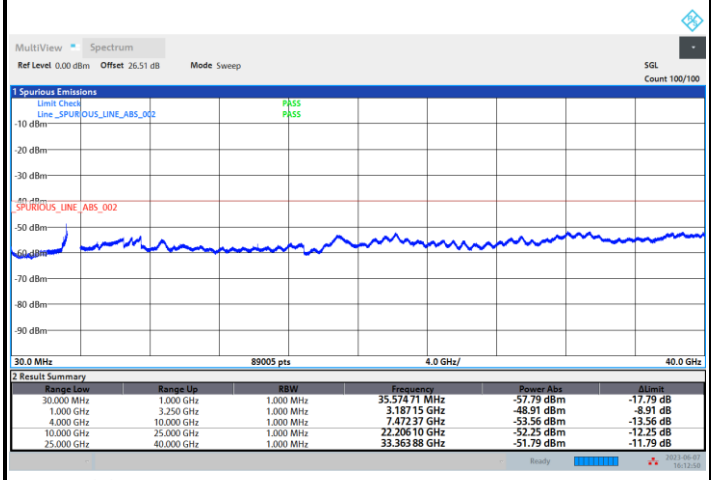
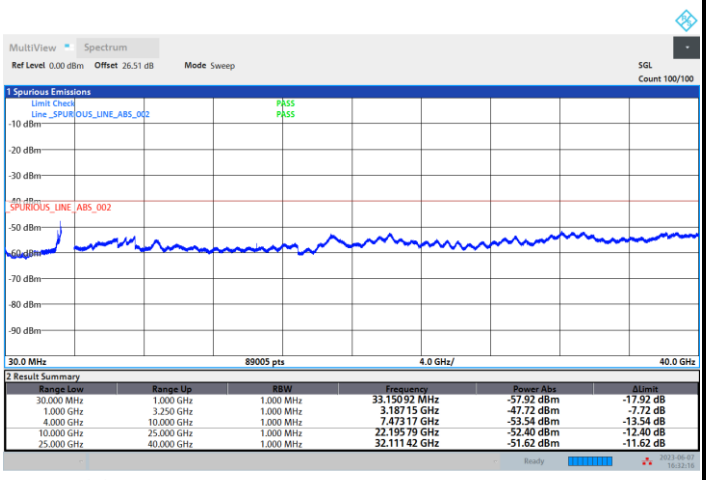
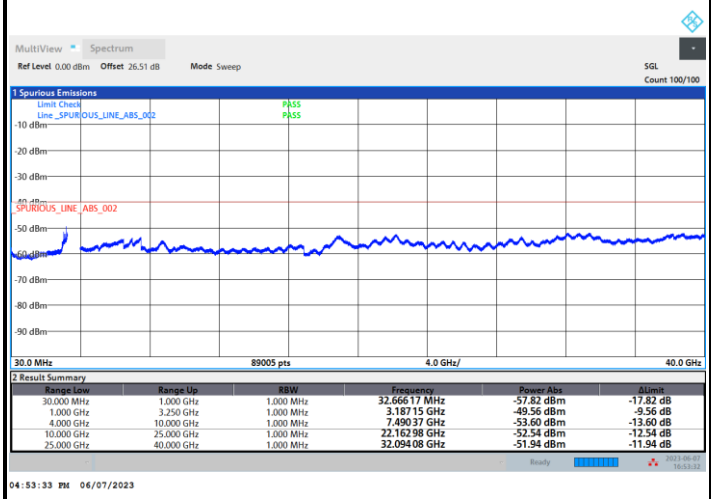


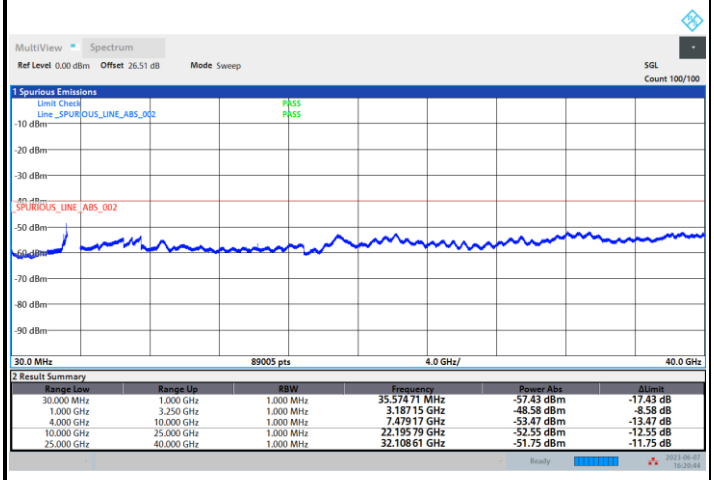
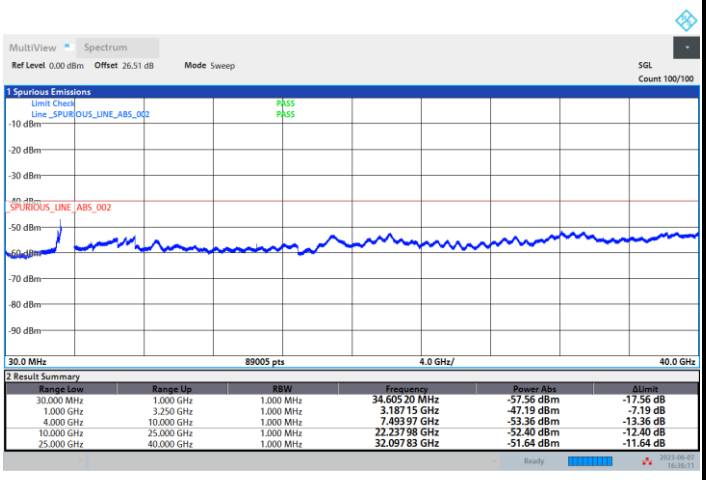
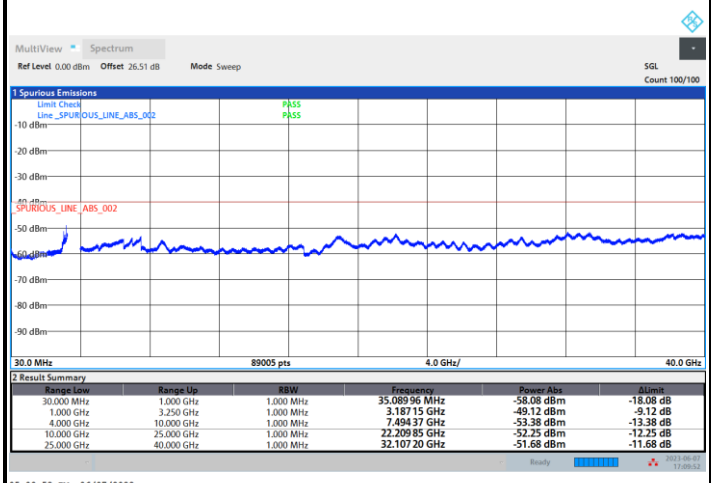

### Middle Channel

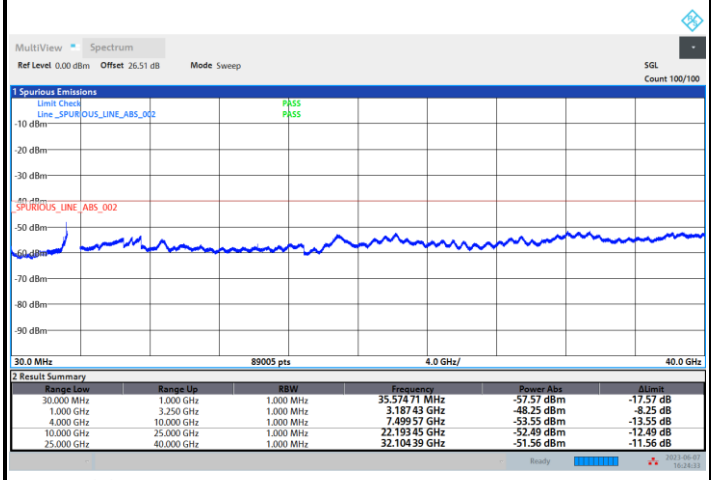
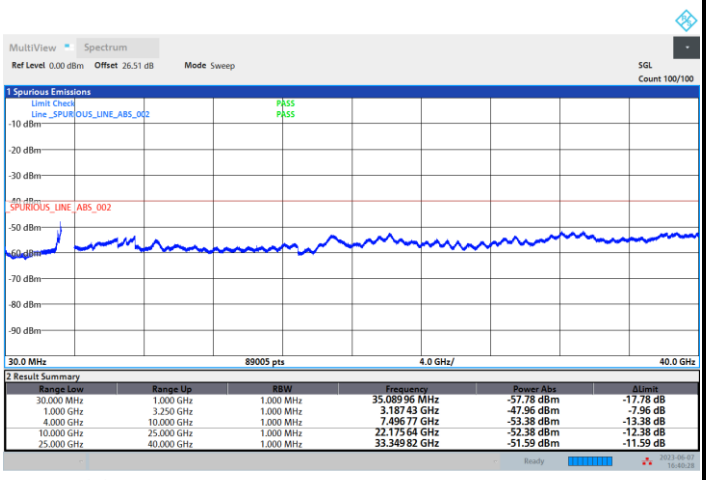
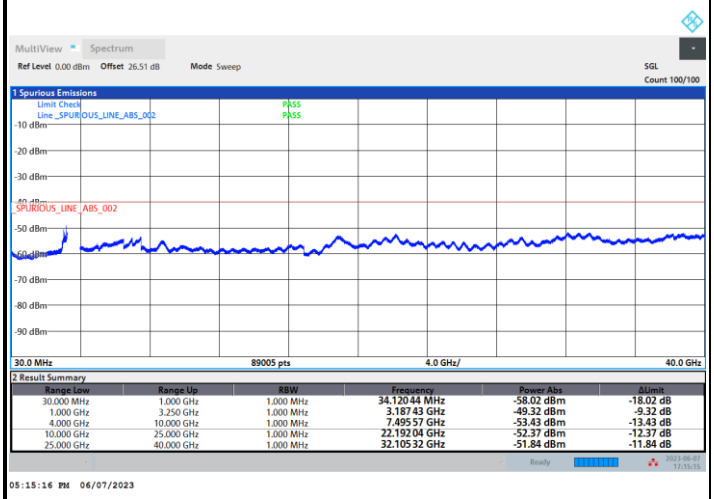


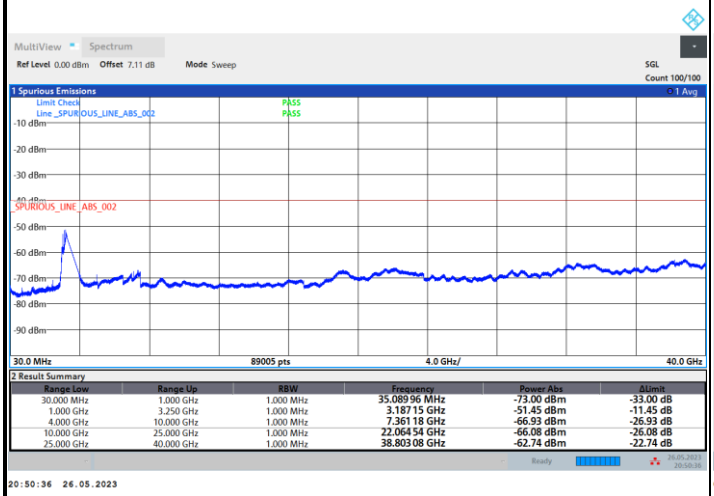
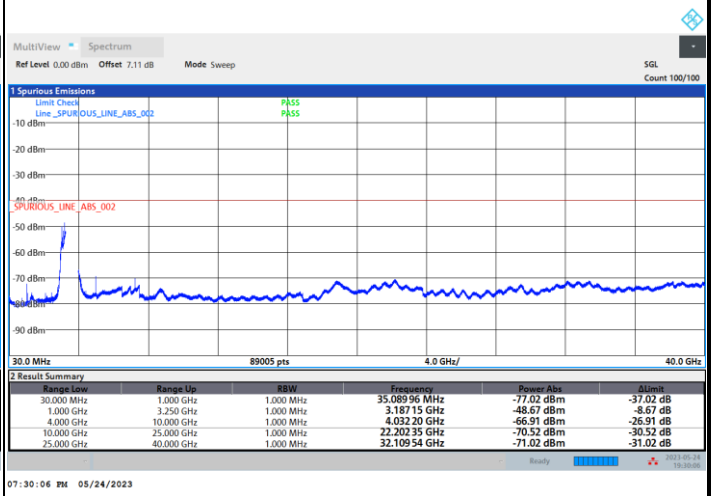
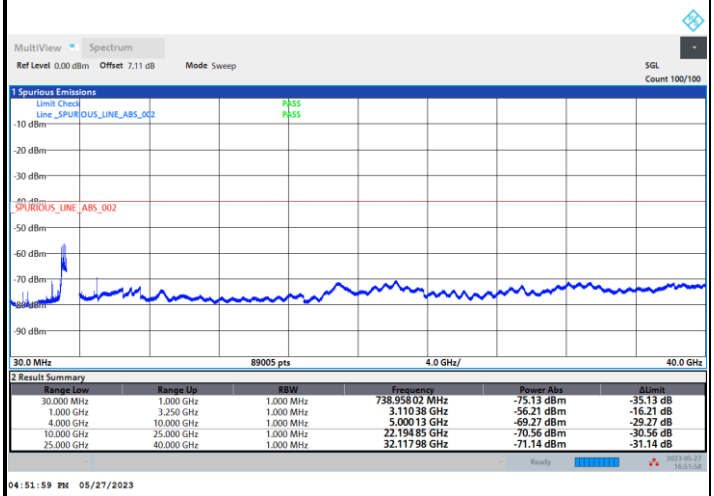

### Highest Channel

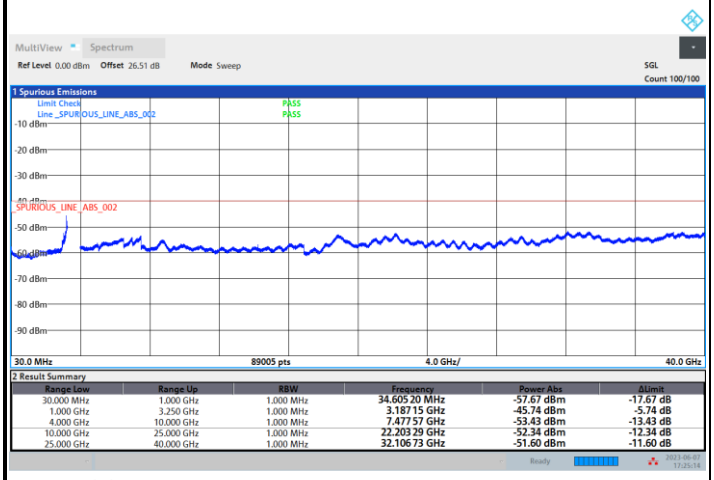
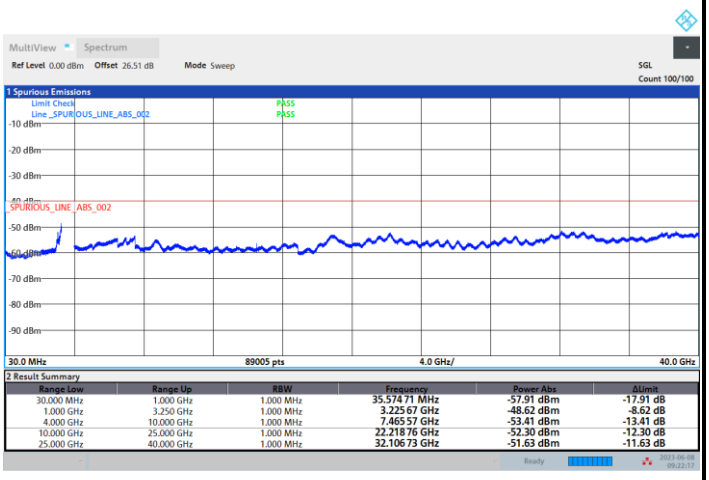
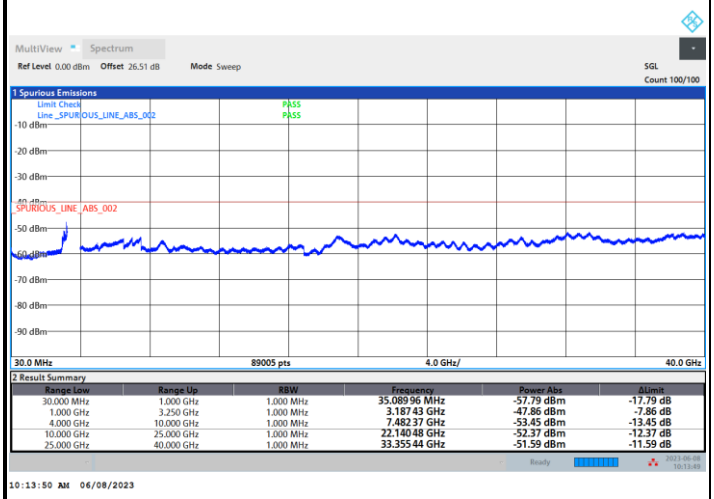


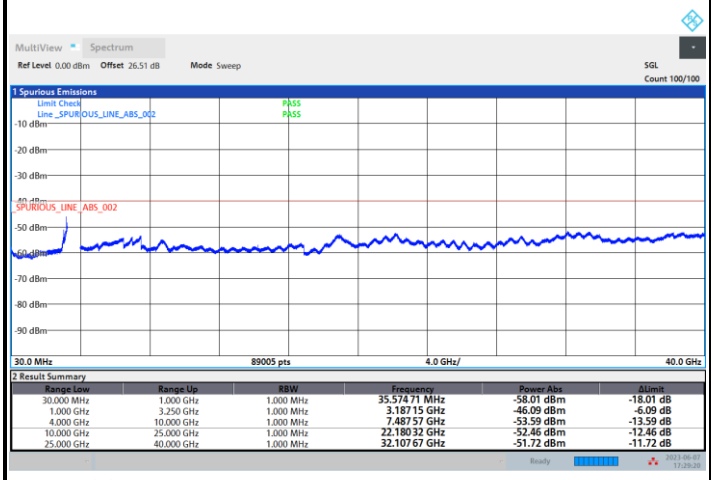
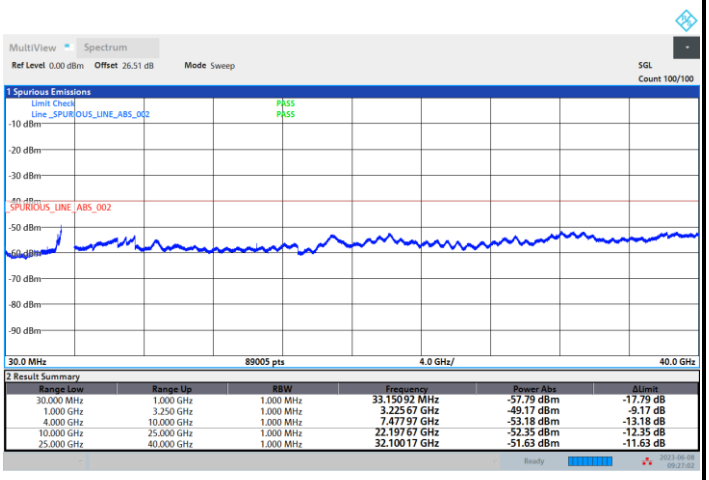
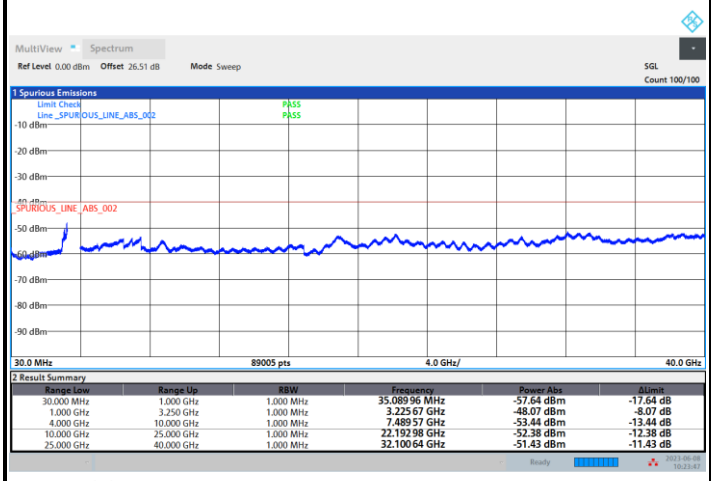
| LTE B48 / 10MHz / 16QAM / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

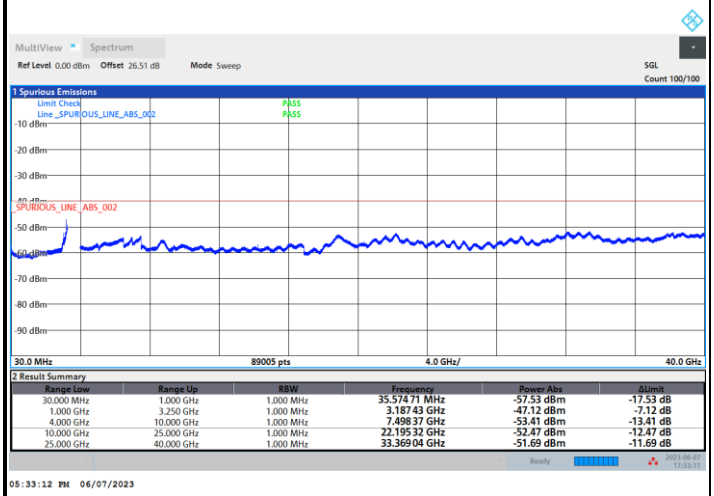
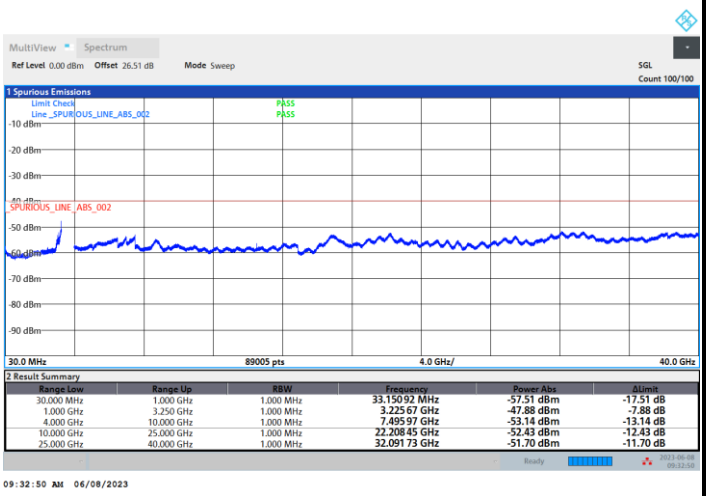
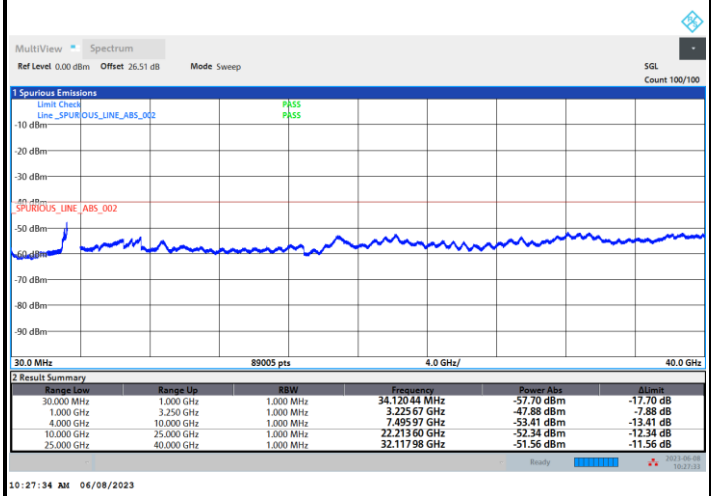
| LTE B48 / 10MHz / 64QAM / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

| LTE B48 / 10MHz / 256QAM / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

| LTE B48 / 20MHz / QPSK / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

| LTE B48 / 20MHz / 16QAM / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

| LTE B48 / 20MHz / 64QAM / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

| LTE B48 / 20MHz / 256QAM / CSE | |
|---|---|
| **Lowest Channel** | **Middle Channel** |
|  |  |
| **Highest Channel** | |
|  | |

# Frequency Stability

| Test Conditions | | LTE B48 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 20MHz | Note 2. |
| | | Frequency offset (ppm) | Result |
| 50 | Normal Voltage | 0.7724 | PASS |
| 40 | Normal Voltage | 0.2759 | |
| 30 | Normal Voltage | 0.7724 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.2759 | |
| 0 | Normal Voltage | 0.3310 | |
| -10 | Normal Voltage | 0.5517 | |
| -20 | Normal Voltage | 0.1655 | |
| -30 | Normal Voltage | 2.1517 | |
| 20 | Maximum Voltage | 0.6621 | |
| 20 | Normal Voltage | 1.1586 | |
| 20 | Minimum Voltage | 0.6069 | |

**Note:**

1. Normal Voltage = 48 V.；Minimum Voltage = 43.2 V.；Maximum Voltage = 57 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**MIMO <ANT 0+1(1)>**

# Maximum EIRP (dBm/10MHz)

| Mode | LTE B48 : Conducted (dBm/10MHz) <SISO> Lowest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 19.03 | 17.71 | 18.71 | 18.14 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH | 18.63 | 18.44 | 18.69 | 18.82 | - | - | - | - |

| Mode | LTE B48 : Maximum EIRP (dBm/10MHz) <MIMO 2TX> Lowest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 28.63 | 27.31 | 28.31 | 27.74 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH | 28.23 | 28.04 | 28.29 | 28.42 | - | - | - | - |
| Limit | 30dBm/10MHz | | | | | | | |
| Result | PASS | | | | | | | |

**Note**

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 3.01dB (2TX) + 6.59dBi MIMO antenna gain.

| Mode | LTE B48 : Conducted (dBm/10MHz) <SISO> Middle Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 19.16 | 17.55 | 18.42 | 18.87 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 18.55 | 18.75 | 18.21 | 18.97 | - | - | - | - |

| Mode | LTE B48 : Maximum EIRP (dBm/10MHz) <MIMO 2TX> Middle Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 28.76 | 27.15 | 28.02 | 28.47 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 28.15 | 28.35 | 27.81 | 28.57 | - | - | - | - |
| Limit | 30dBm/10MHz | | | | | | | |
| Result | PASS | | | | | | | |

**Note**

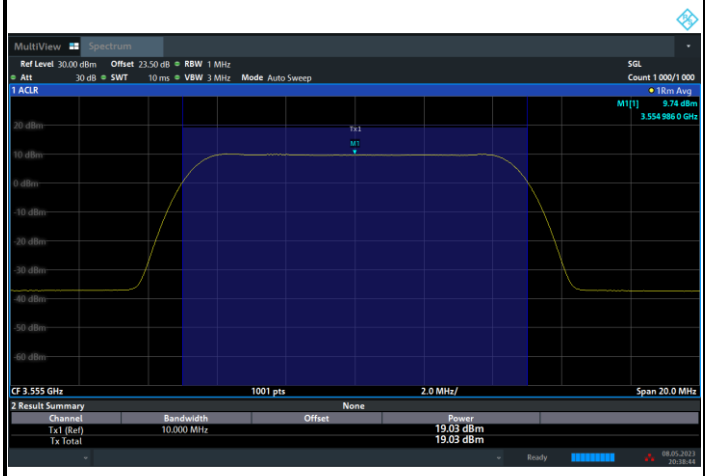
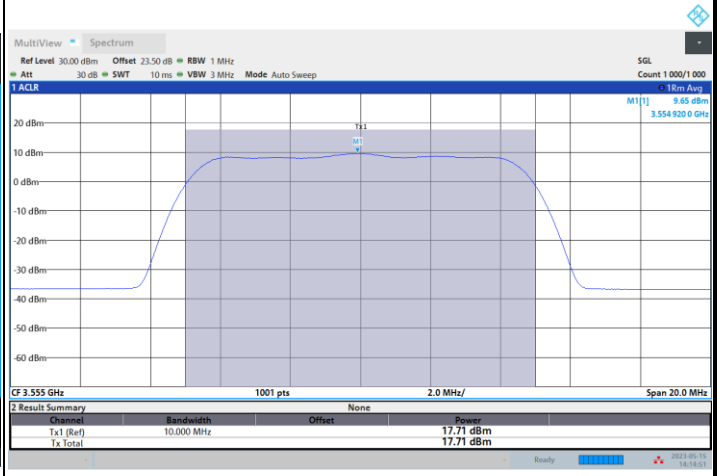
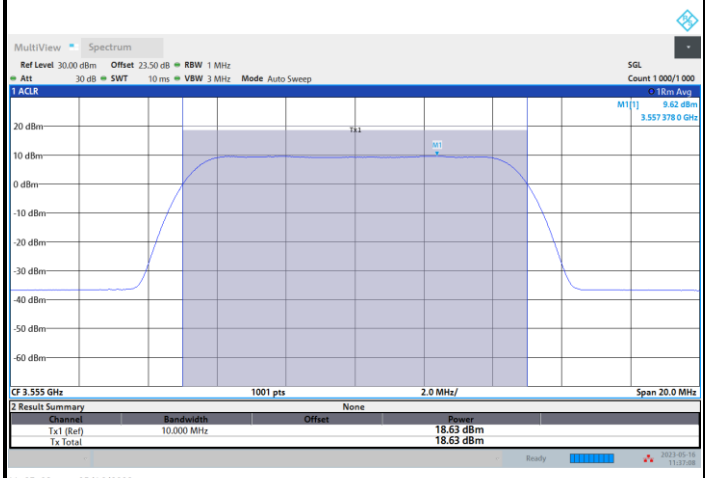
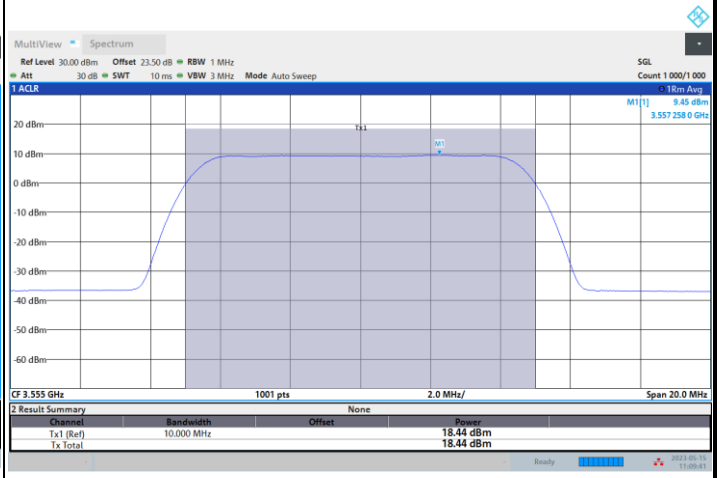
1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 3.01dB (2TX) + 6.59dBi MIMO antenna gain.

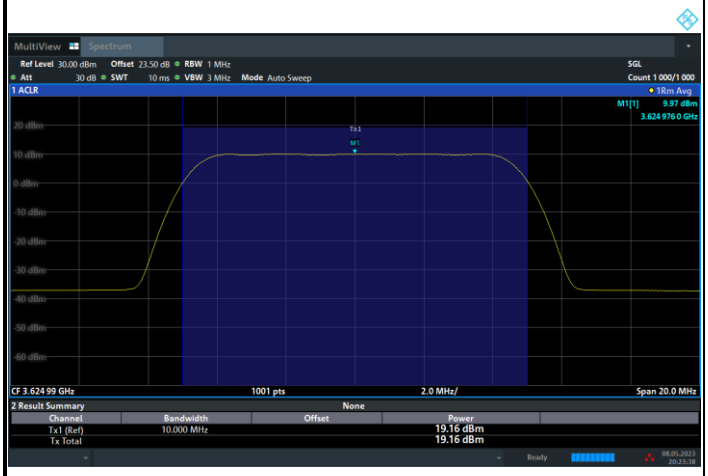
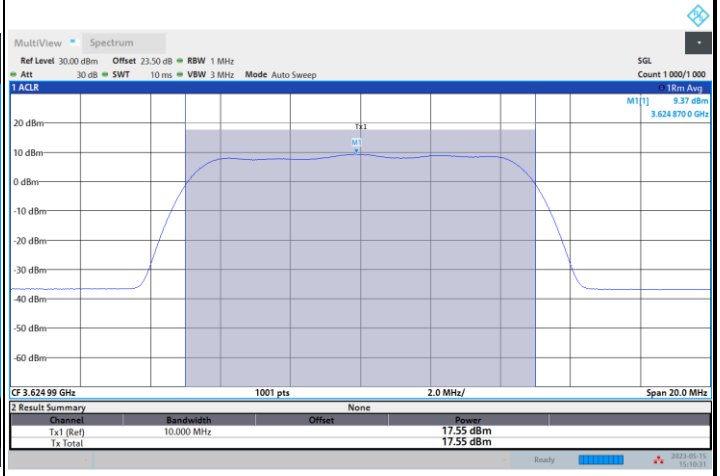
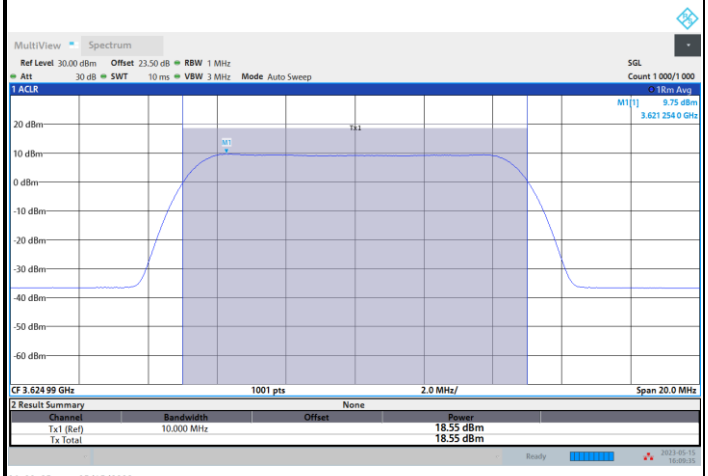
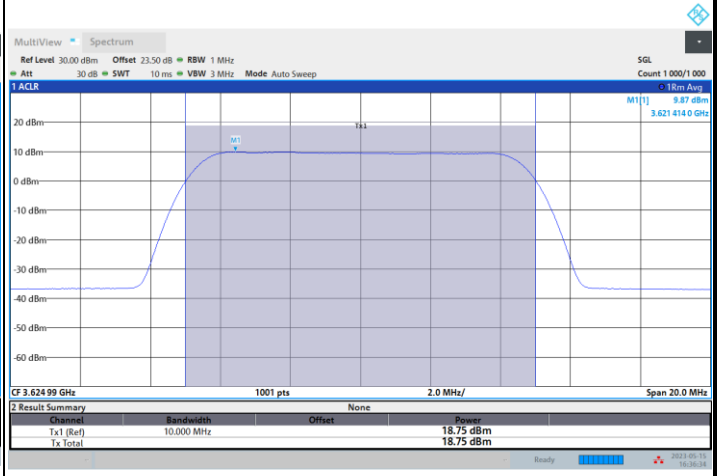
| Mode | LTE B48 : Conducted (dBm/10MHz) <SISO> Highest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Highest CH | 18.93 | 17.66 | 18.64 | 18.64 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Highest CH | 18.55 | 18.46 | 18.89 | 18.70 | - | - | - | - |

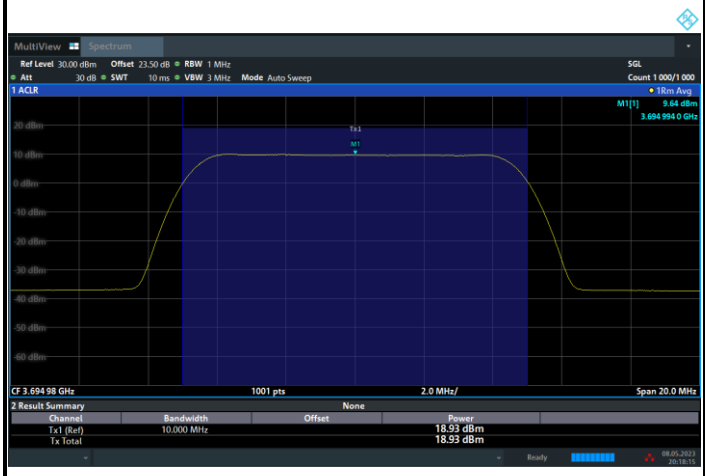
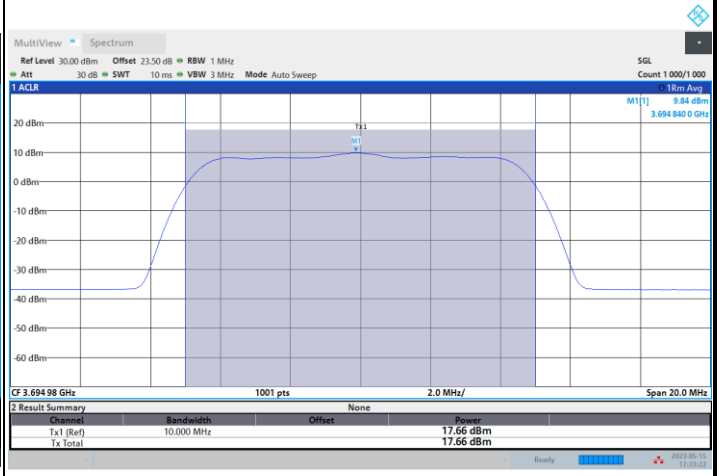
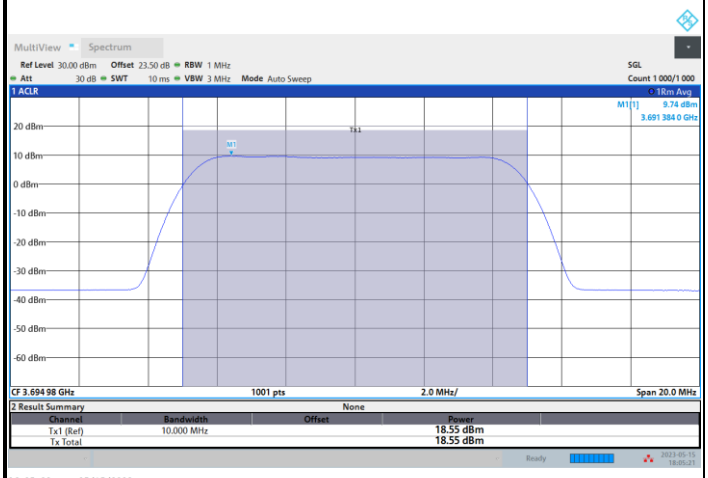
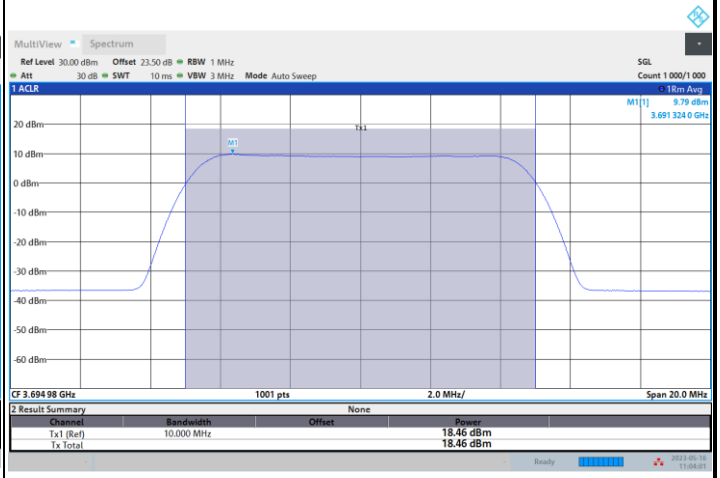
| Mode | LTE B48 : Maximum EIRP (dBm/10MHz) <MIMO 2TX> Highest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Highest CH | 28.53 | 27.26 | 28.24 | 28.24 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Highest CH | 28.15 | 28.06 | 28.49 | 28.30 | - | - | - | - |
| Limit | 30dBm/10MHz | | | | | | | |
| Result | PASS | | | | | | | |

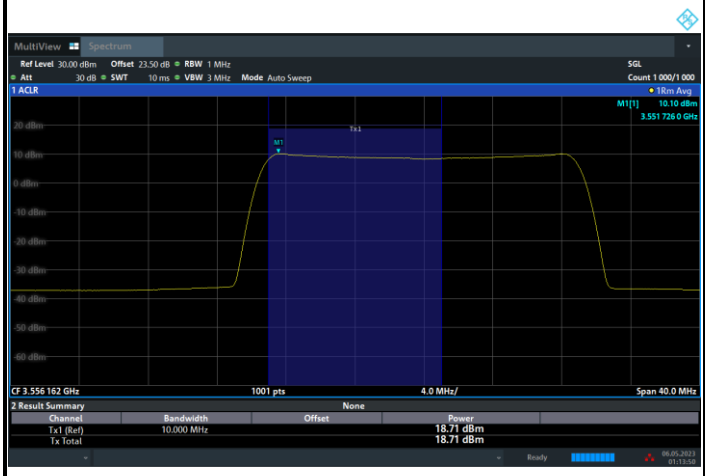
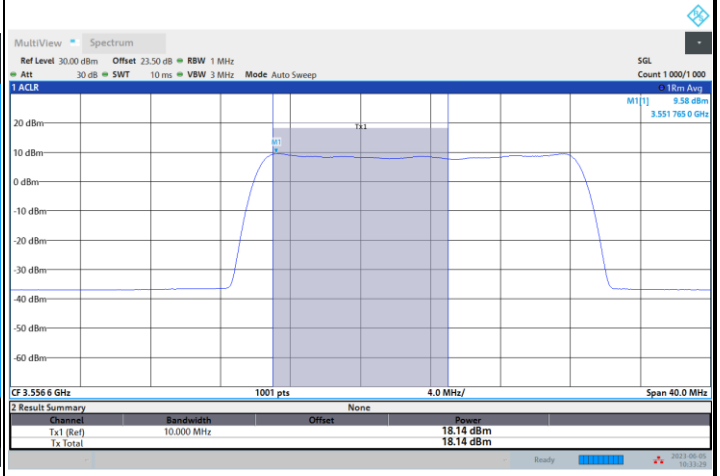
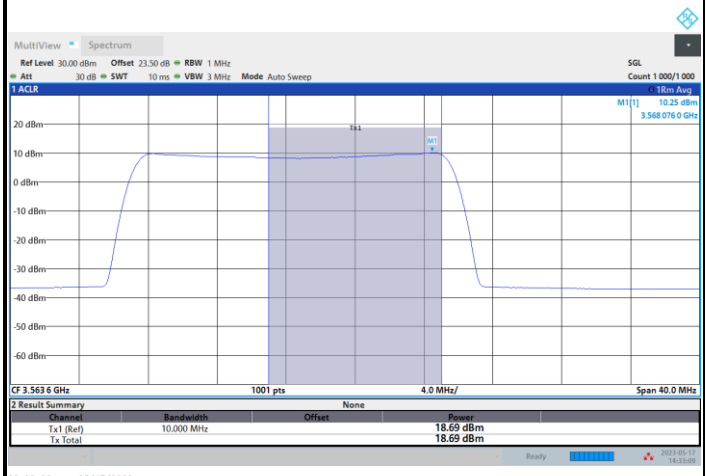
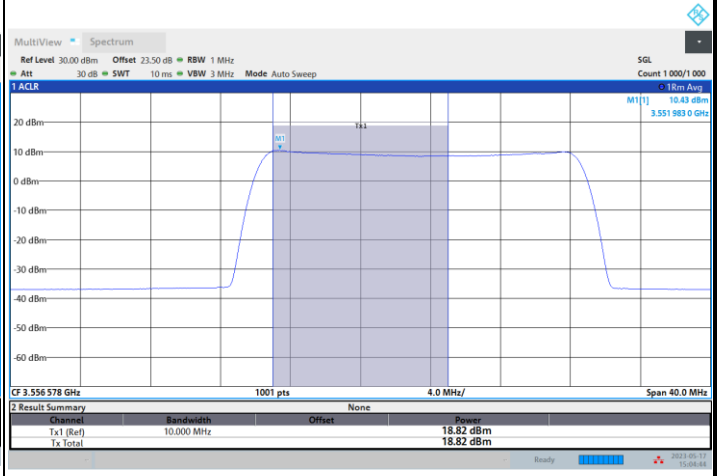
**Note**

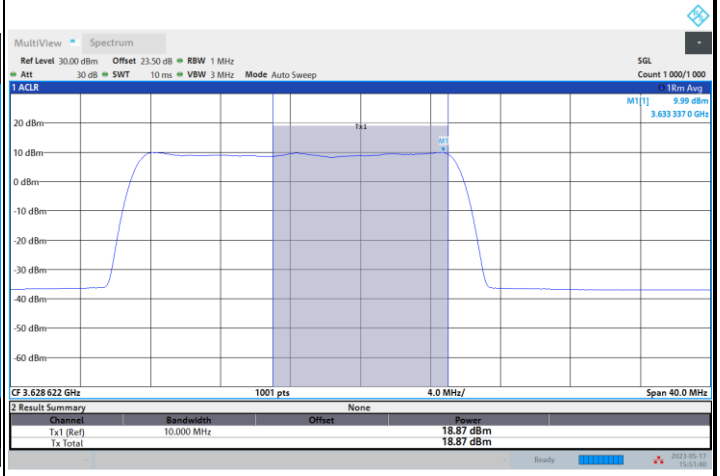
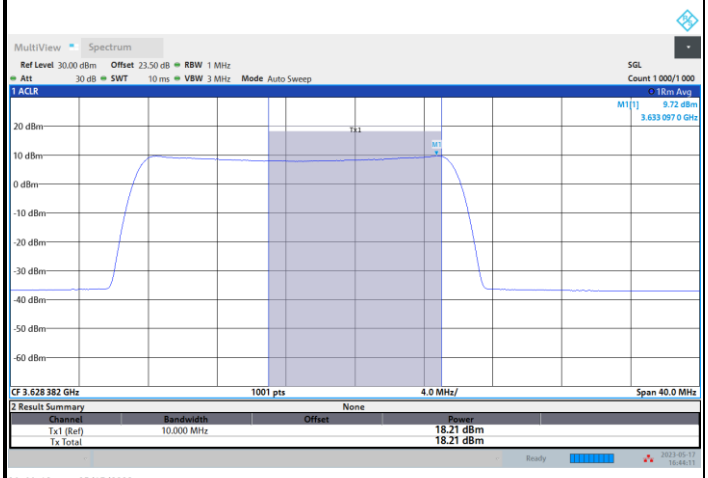
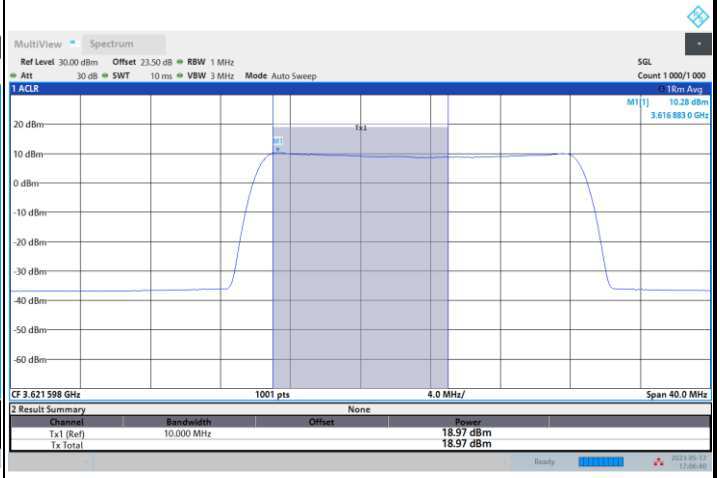
1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 3.01dB (2TX) + 6.59dBi MIMO antenna gain.

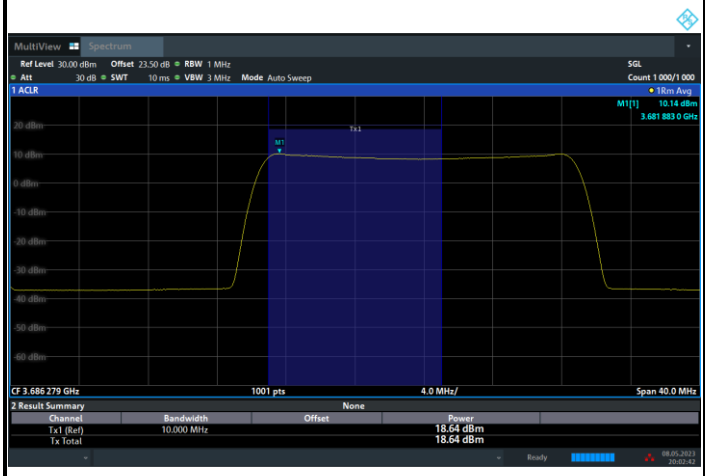
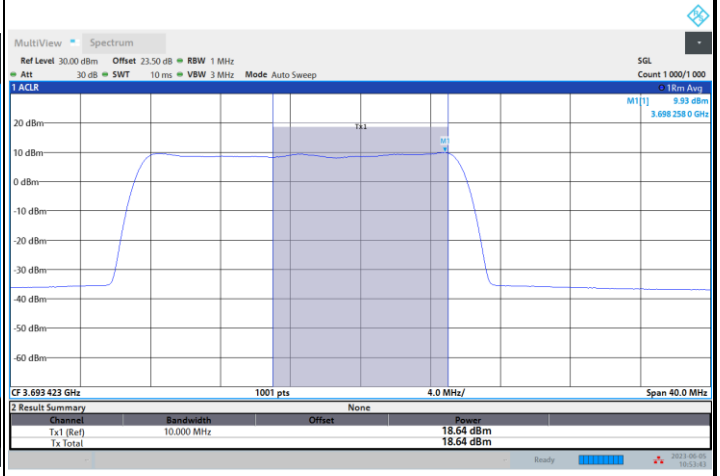
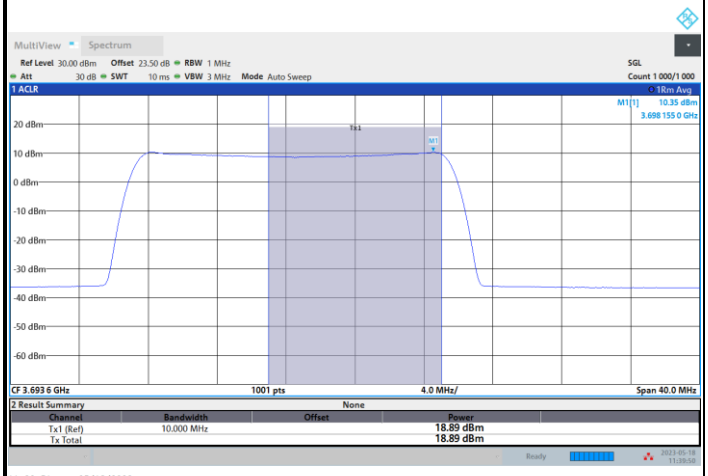
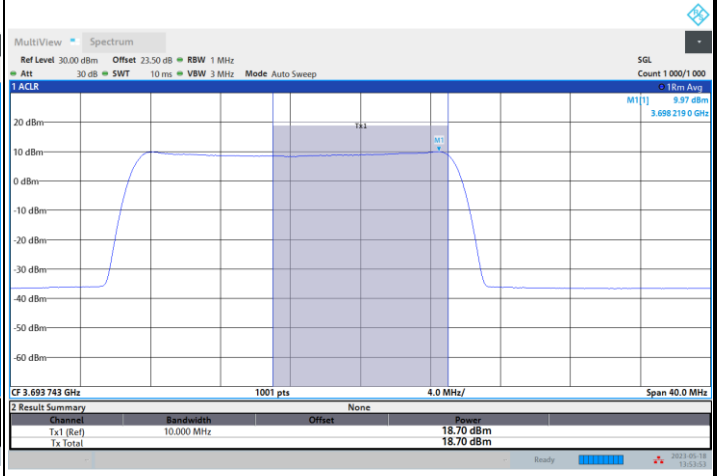
| LTE B48 / 10MHz / Lowest Channel / Conducted (dBm/10MHz) | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 10MHz / Middle Channel / Conducted (dBm/10MHz) | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 10MHz / Highest Channel / Conducted (dBm/10MHz) | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 20MHz / Lowest Channel / Conducted (dBm/10MHz) | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 20MHz / Middle Channel / Conducted (dBm/10MHz) | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 20MHz / Highest Channel / Conducted (dBm/10MHz) | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

# Power Spectral Density

| Mode | LTE B48 : Conducted PSD (dBm/MHz) <SISO> Lowest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 10.27 | 10.03 | 10.38 | 9.75 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH | 10.09 | 9.76 | 10.33 | 10.30 | - | - | - | - |

| Mode | LTE B48 : EIRP PSD (dBm/MHz) <MIMO 2TX> Lowest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | 19.87 | 19.63 | 19.98 | 19.35 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH | 19.69 | 19.36 | 19.93 | 19.90 | - | - | - | - |
| Limit | 20dBm/MHz | | | | | | | |
| Result | PASS | | | | | | | |

**Note**

1. The measured conducted PSD result has included duty cycle offset factor.
2. The EIRP PSD = conducted PSD result + 3.01dB (2TX) + 6.59dBi MIMO antenna gain.

| Mode | LTE B48 : Conducted PSD (dBm/MHz) <SISO> Middle Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 10.19 | 9.95 | 9.93 | 10.32 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 9.92 | 10.11 | 9.91 | 10.24 | - | - | - | - |

| Mode | LTE B48 : EIRP PSD (dBm/MHz) <MIMO 2TX> Middle Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 19.79 | 19.55 | 19.53 | 19.92 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 19.52 | 19.71 | 19.51 | 19.84 | - | - | - | - |
| Limit | 20dBm/MHz | | | | | | | |
| Result | PASS | | | | | | | |

**Note**

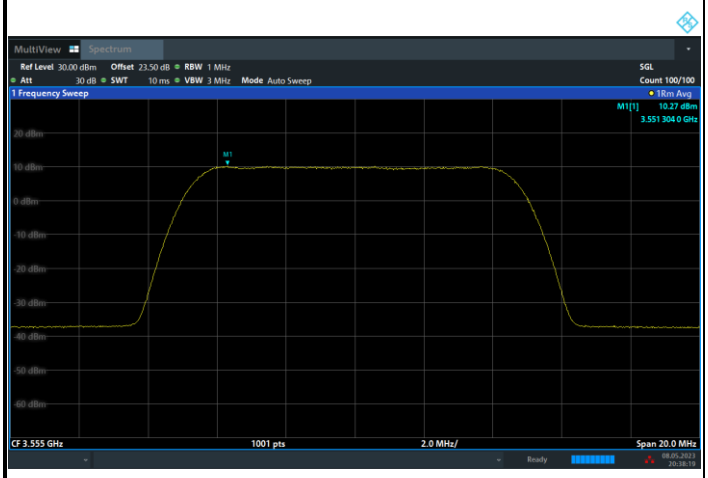
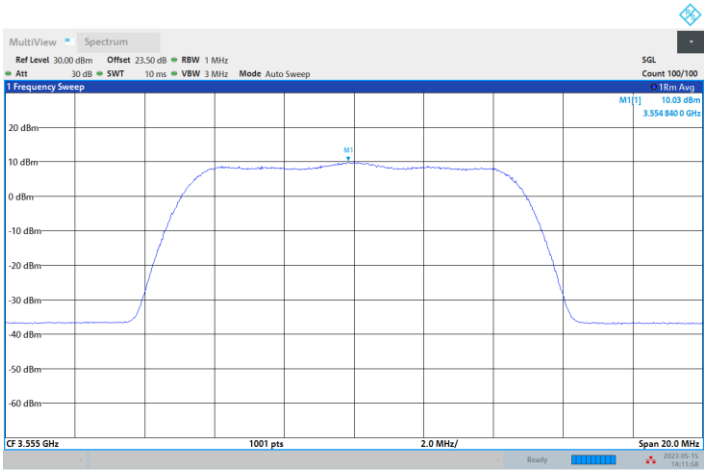
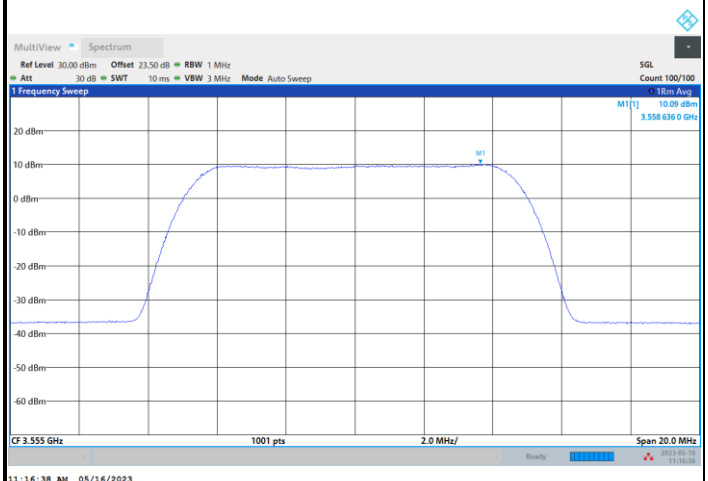
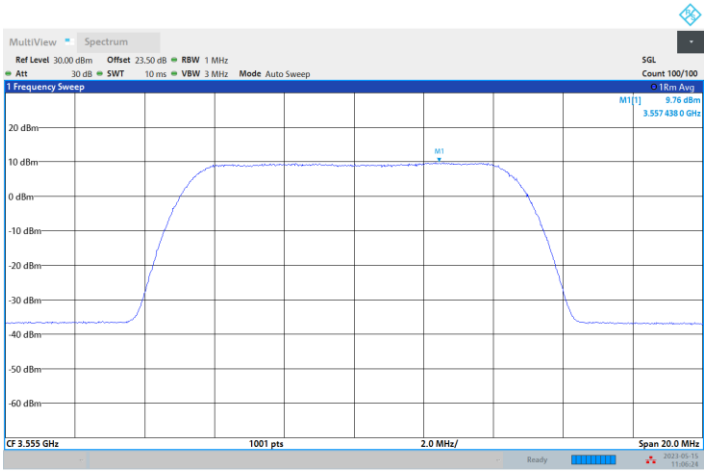
1. The measured conducted PSD result has included duty cycle offset factor.
2. The EIRP PSD = conducted PSD result + 3.01dB (2TX) + 6.59dBi MIMO antenna gain.

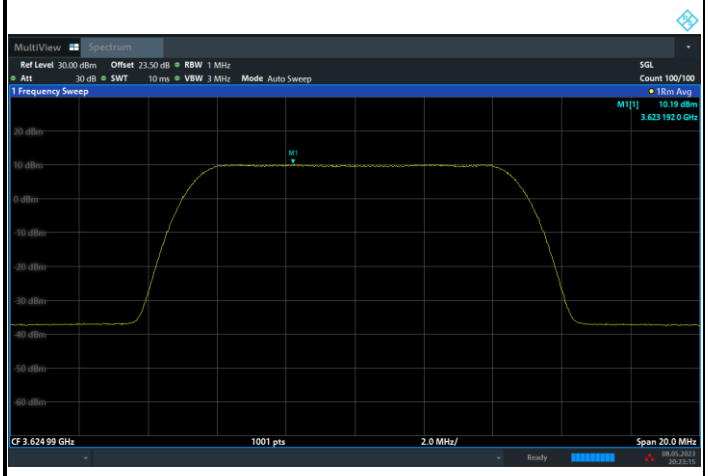
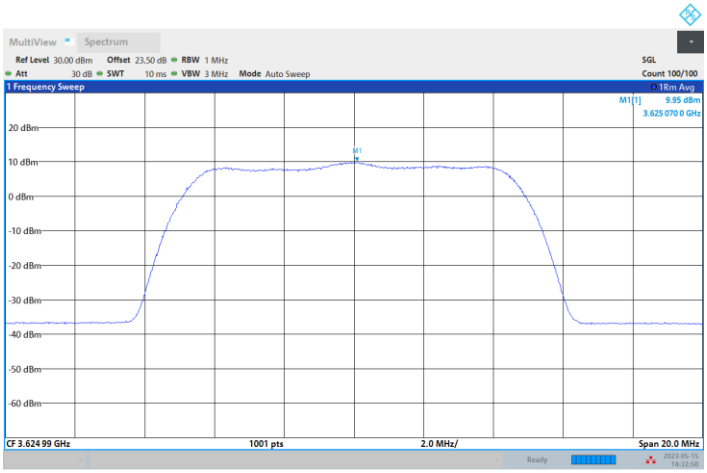
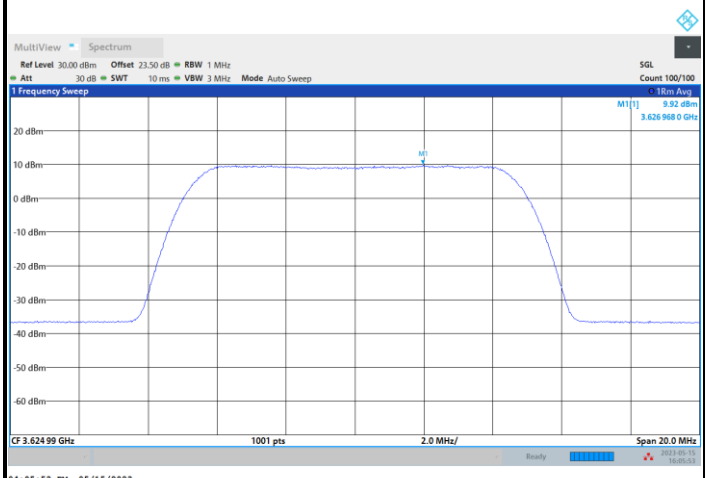
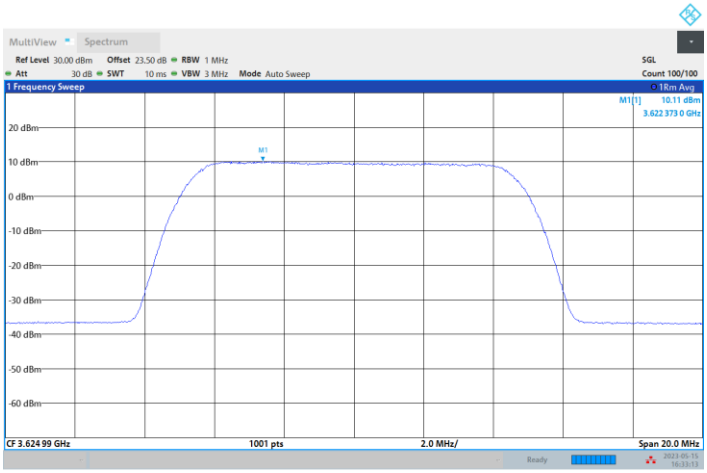
| Mode | LTE B48 : Conducted PSD (dBm/MHz) <SISO> Highest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Highest CH | 10.06 | 10.23 | 10.21 | 9.86 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Highest CH | 10.06 | 10.15 | 10.34 | 10.00 | - | - | - | - |

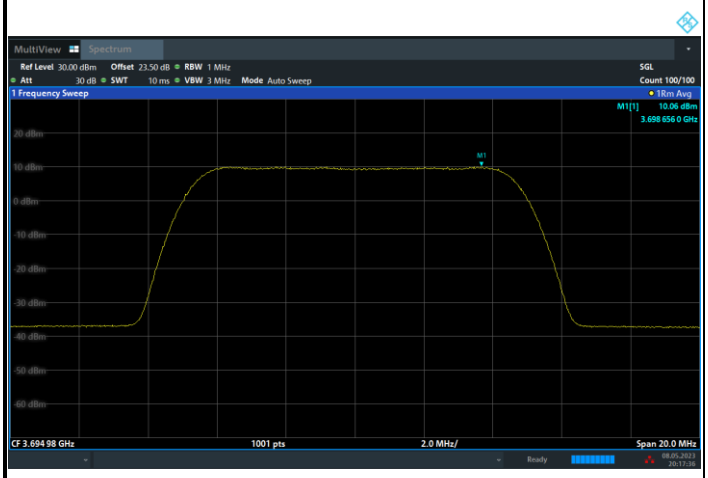
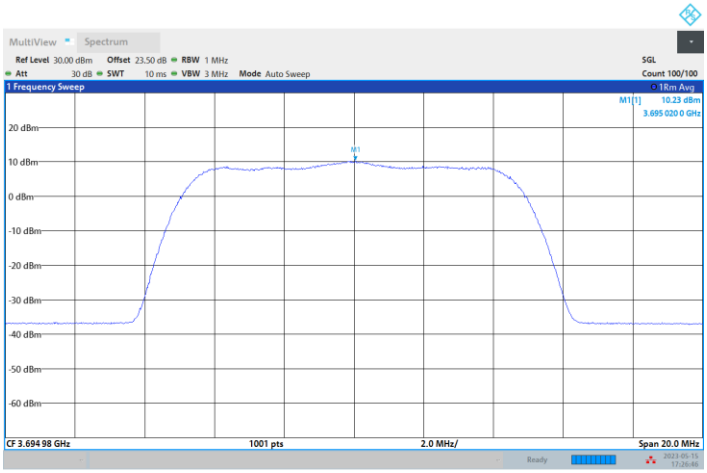
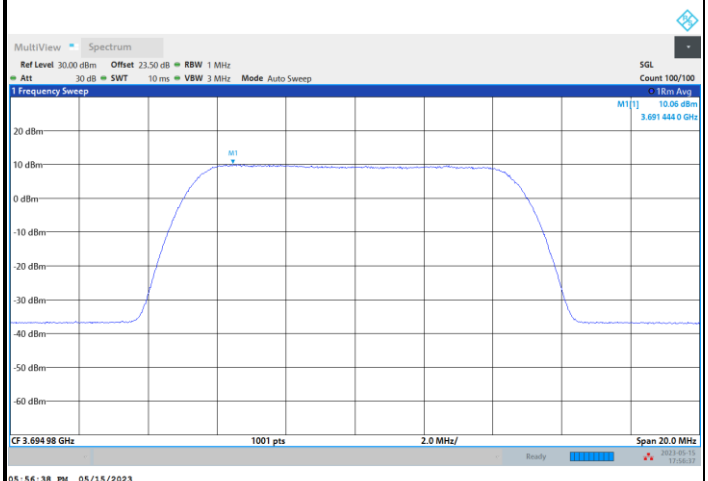
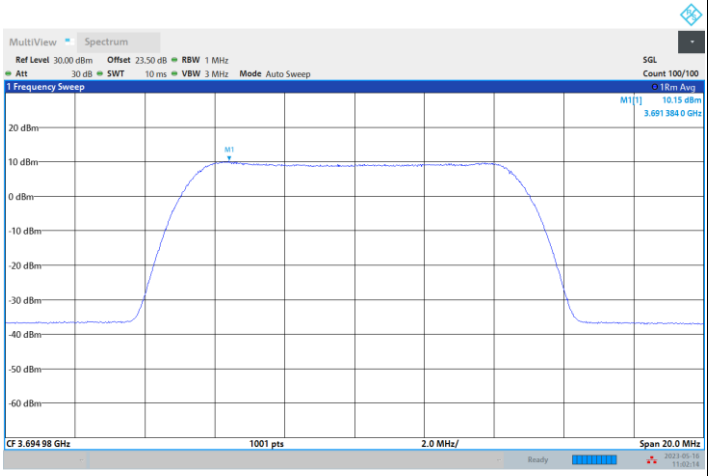
| Mode | LTE B48 : EIRP PSD (dBm/MHz) <MIMO 2TX> Highest Channel | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Highest CH | 19.66 | 19.83 | 19.81 | 19.46 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Highest CH | 19.66 | 19.75 | 19.94 | 19.60 | - | - | - | - |
| Limit | 20dBm/MHz | | | | | | | |
| Result | PASS | | | | | | | |

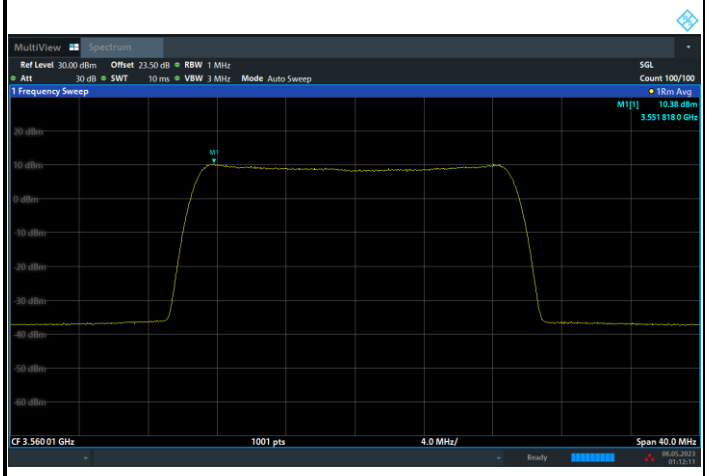
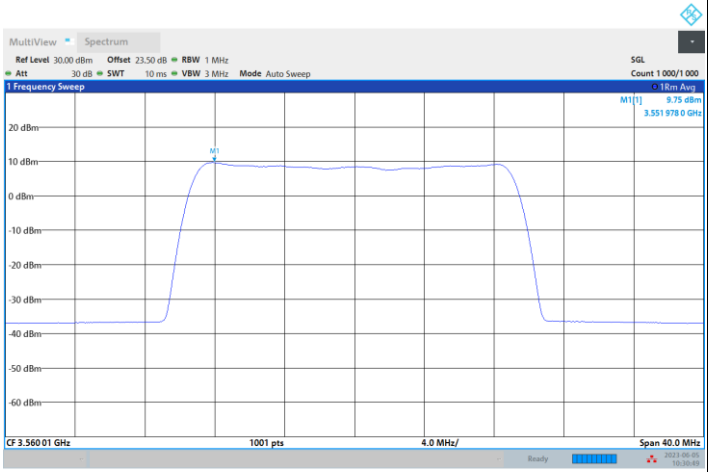
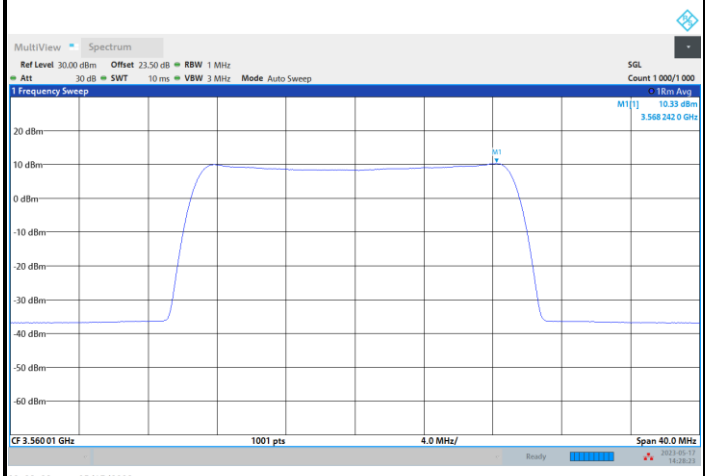
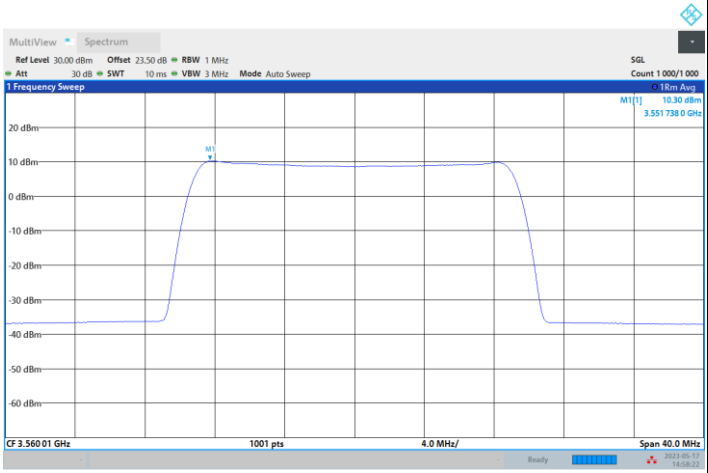
**Note**

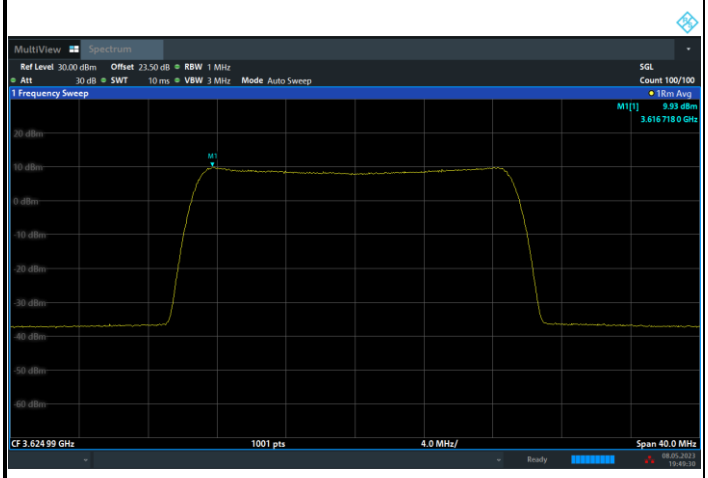
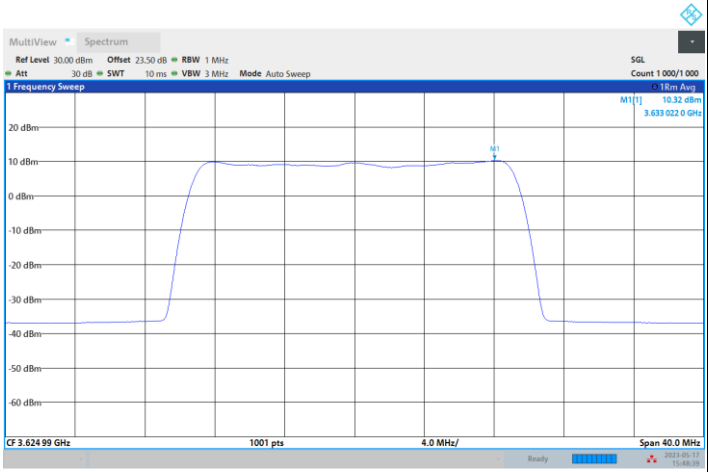
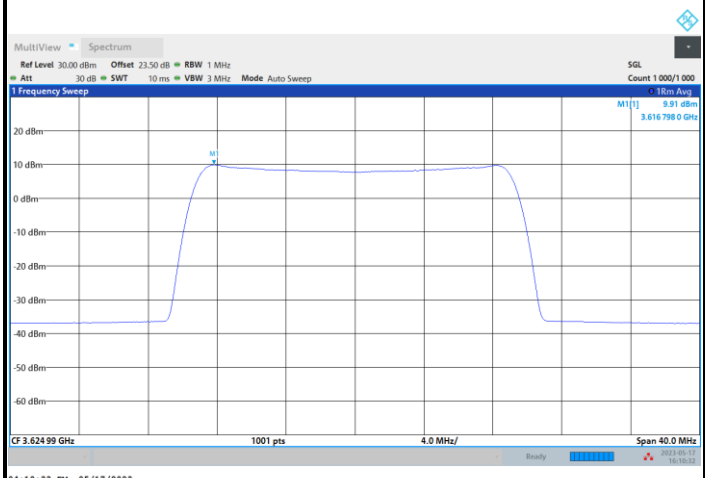
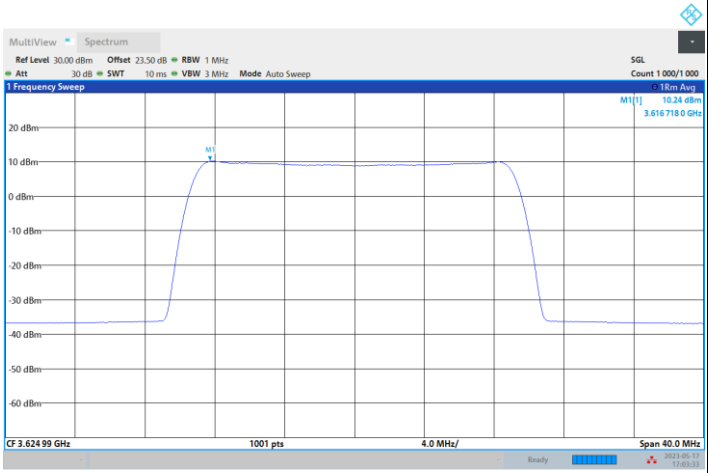
1. The measured conducted PSD result has included duty cycle offset factor.
2. The EIRP PSD = conducted PSD result + 3.01dB (2TX) + 6.59dBi MIMO antenna gain.

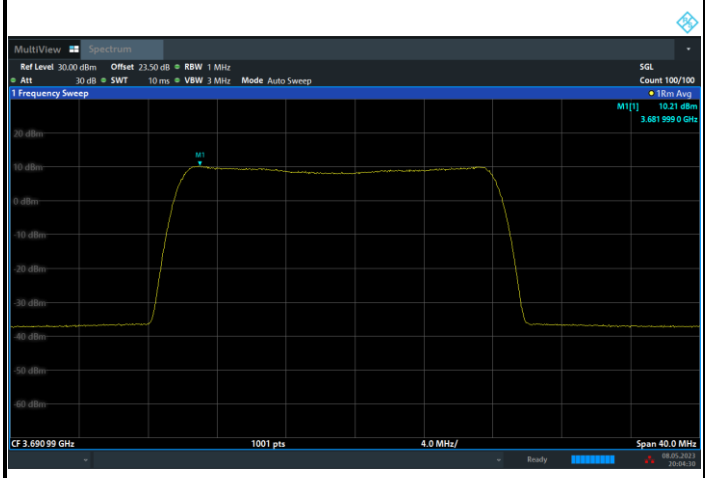
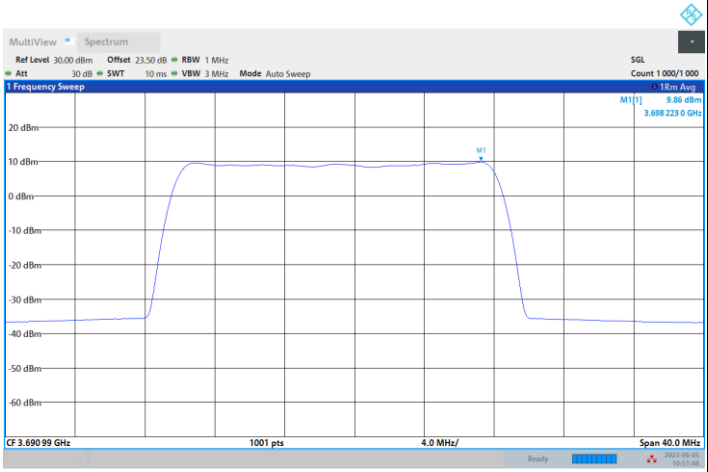
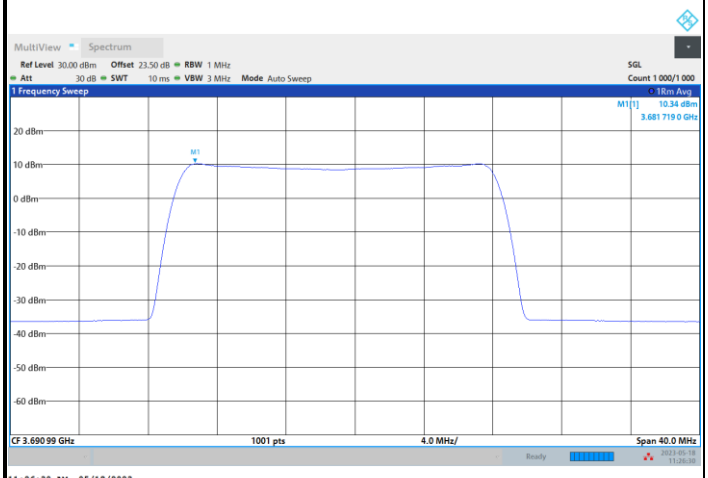
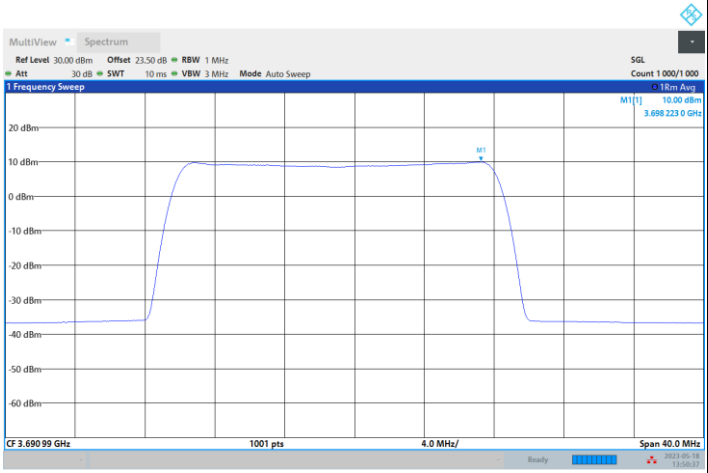
| LTE B48 / 10MHz / Lowest Channel / PSD | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 10MHz / Middle Channel / PSD | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 10MHz / Highest Channel / PSD | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 20MHz / Lowest Channel / PSD | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

| LTE B48 / 20MHz / Middle Channel / PSD | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

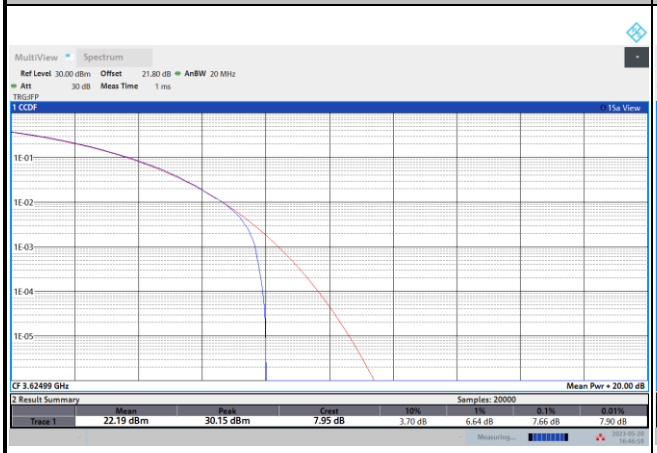
| LTE B48 / 20MHz / Highest Channel / PSD | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

# Peak-to-Average Ratio

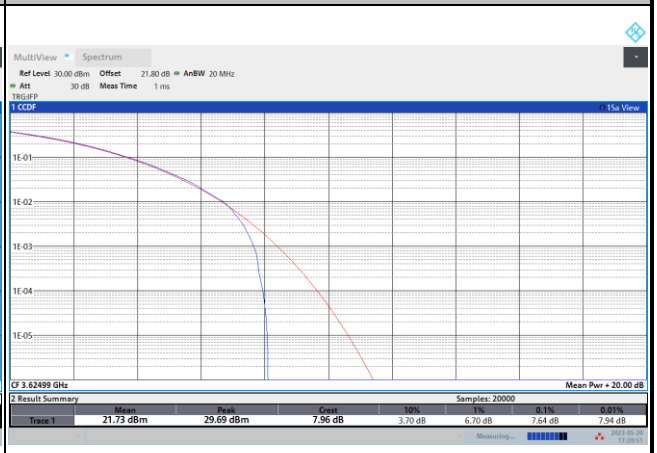
| Mode | LTE B48 / 20MHz / PAR (dB) | | | | Limit: 13dB |
|---|---|---|---|---|---|
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Result |
| Middle CH | 7.66 | 7.64 | 7.68 | 7.68 | PASS |

**LTE B48 / 20MHz / Middle Channel / PAR**

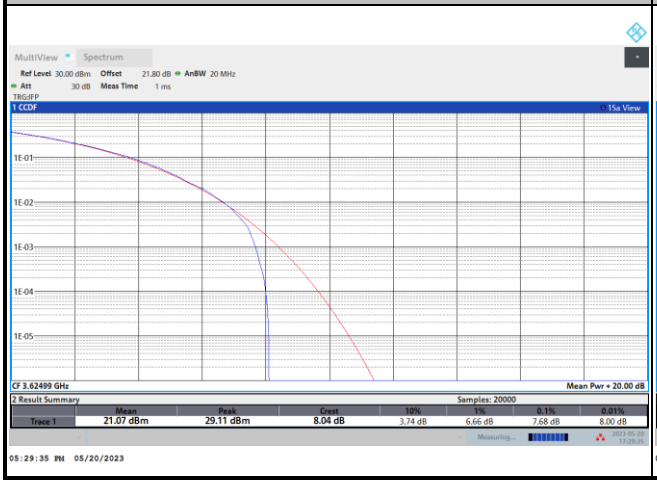
**QPSK**



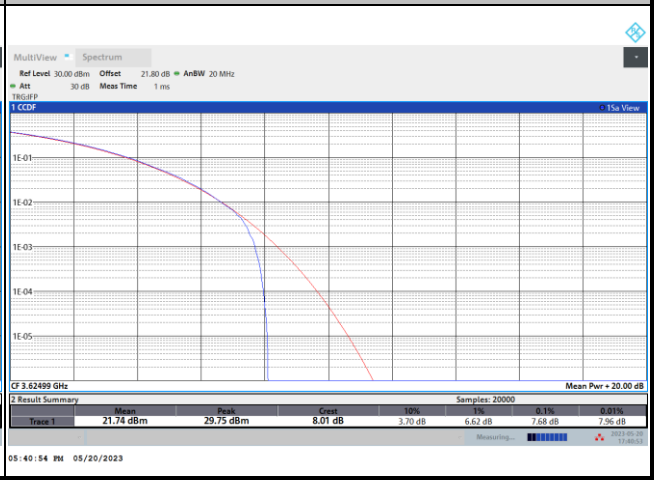

**16QAM**




**64QAM**




**256QAM**

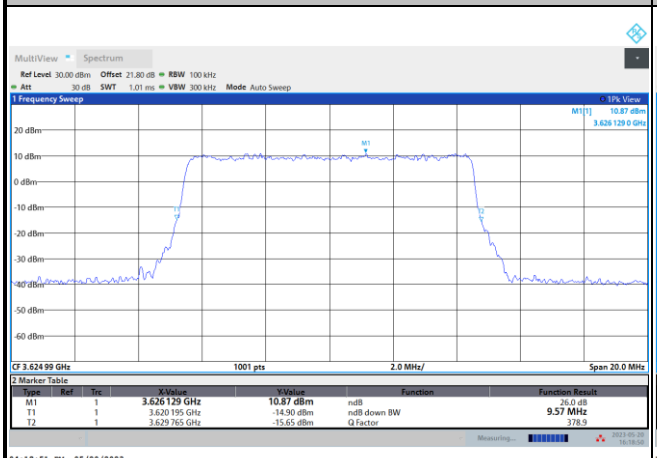


# 26dB Bandwidth

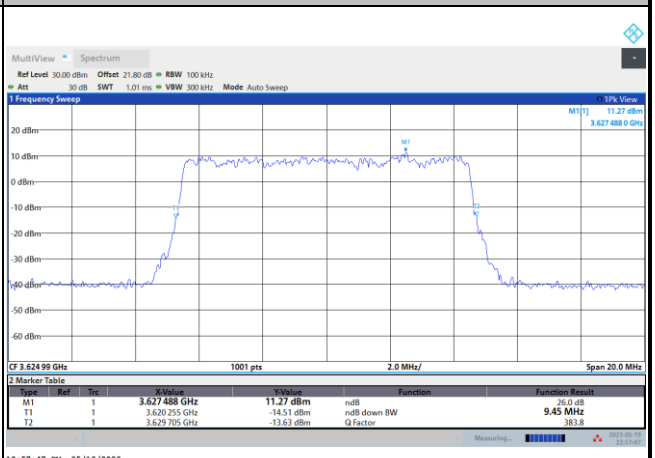
| Mode | LTE B48 : 26dB BW(MHz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 9.57 | 9.45 | 18.98 | 18.90 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 9.35 | 9.45 | 18.94 | 18.98 | - | - | - | - |

**LTE B48 / 10MHz / Middle Channel / 26dB BW**

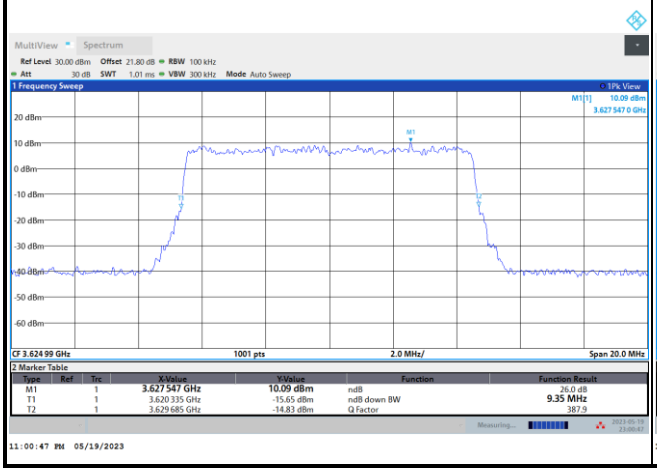
**QPSK**



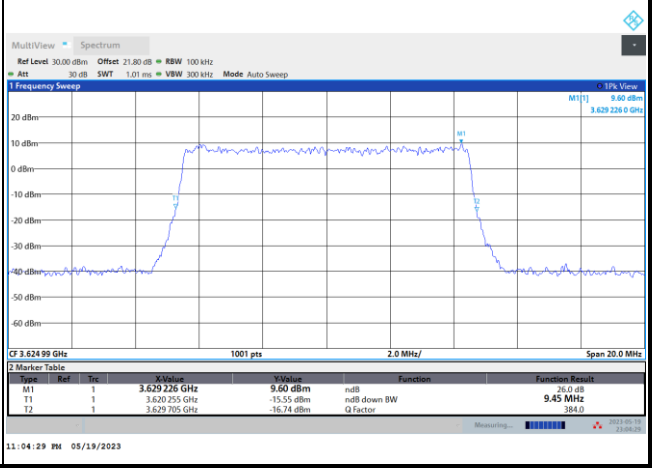

**16QAM**

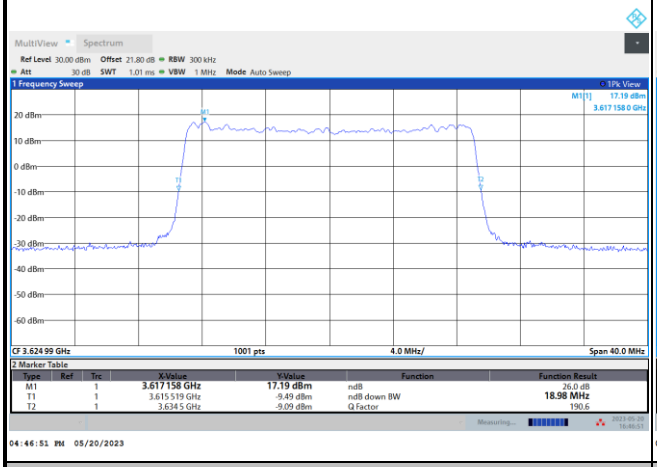
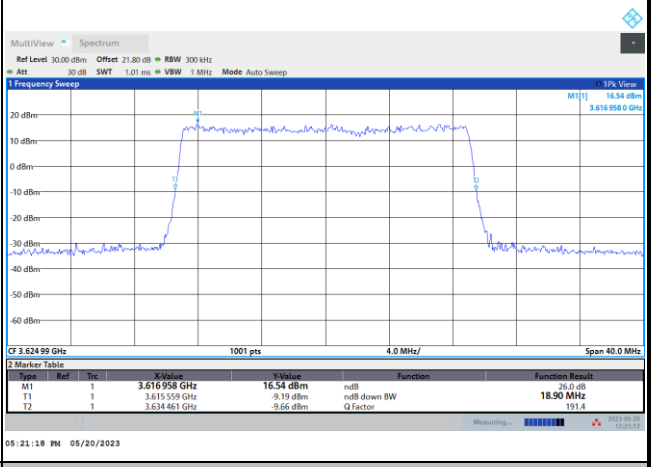
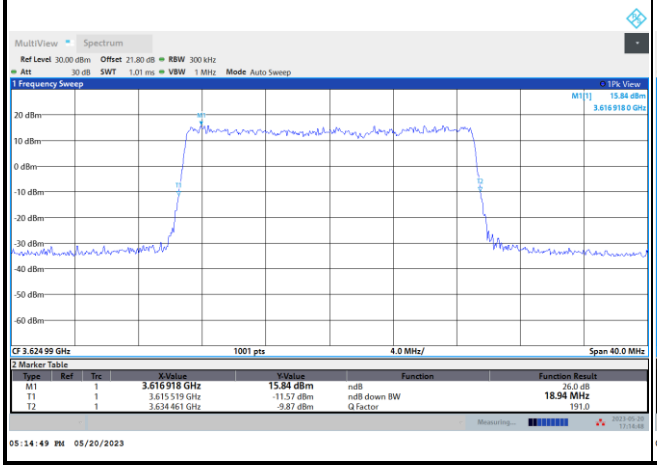
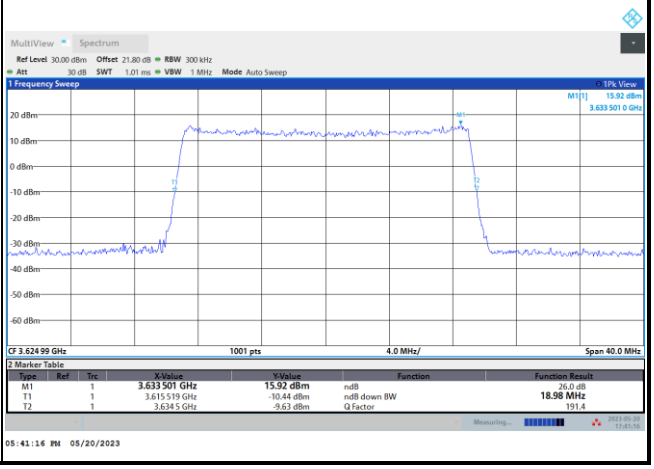



**64QAM**




**256QAM**



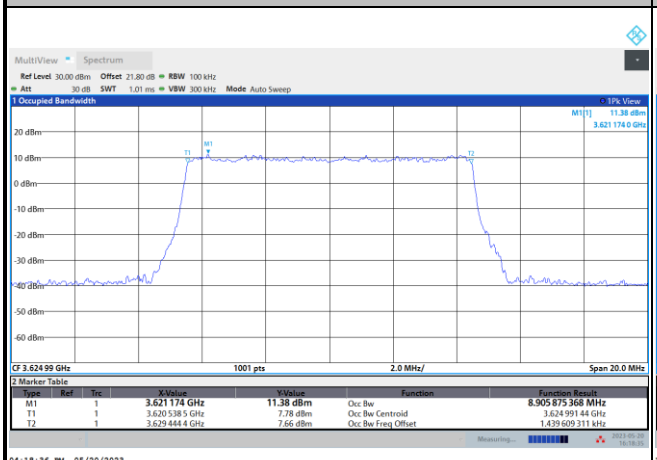
| LTE B48 / 20MHz / Middle Channel / 26dB BW | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 64QAM | 256QAM |
|  |  |

# Occupied Bandwidth

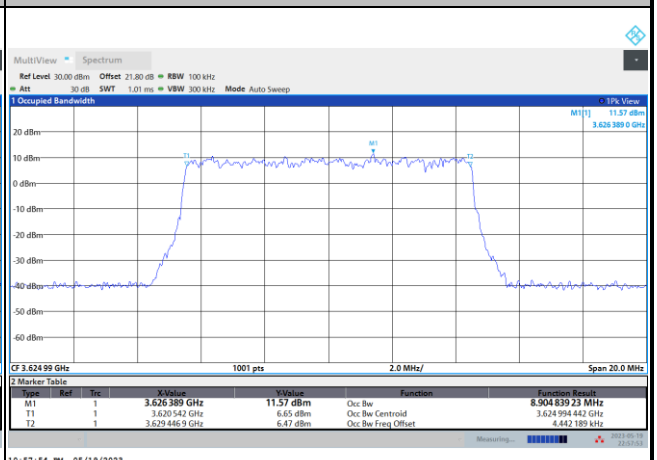
| Mode | LTE B48 : 99%OBW (MHz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW | 10MHz | | 20MHz | | 40MHz | | 50MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | 8.90 | 8.90 | 17.88 | 17.90 | - | - | - | - |
| Mod. | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Middle CH | 8.88 | 8.89 | 17.89 | 17.92 | - | - | - | - |

**LTE B48 / 10MHz / Middle Channel / 99%OBW**

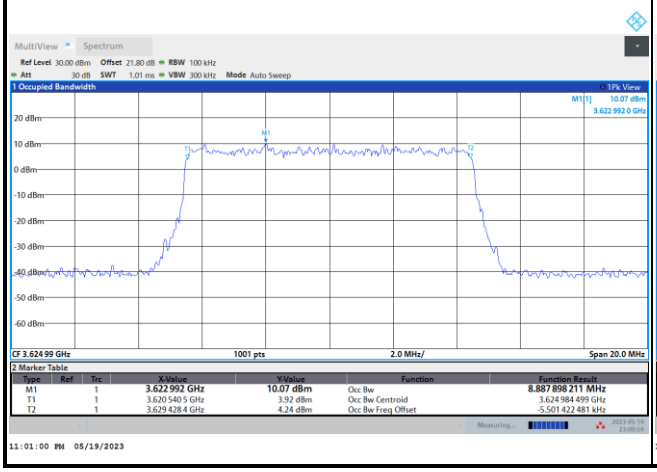
**QPSK**




**16QAM**




**64QAM**




**256QAM**