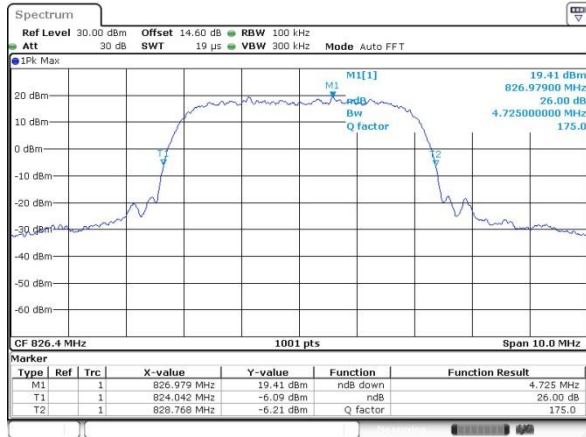




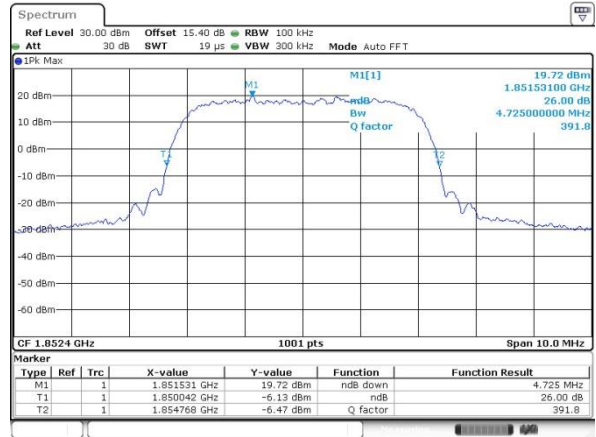
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

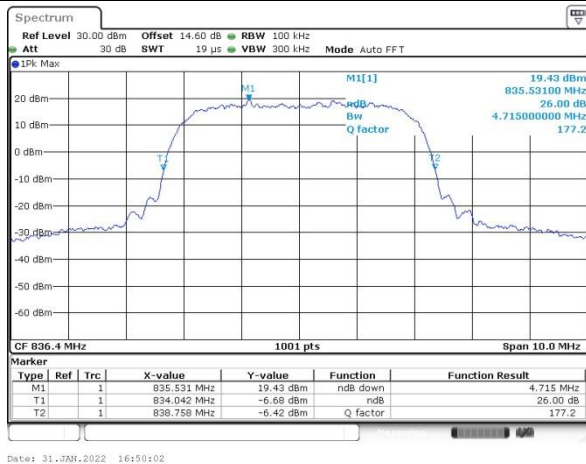


## WCDMA Band II (RMC 12.2Kbps)

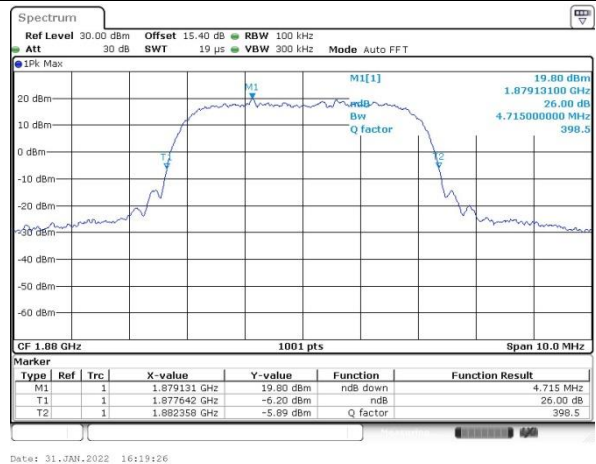
## Lowest Channel



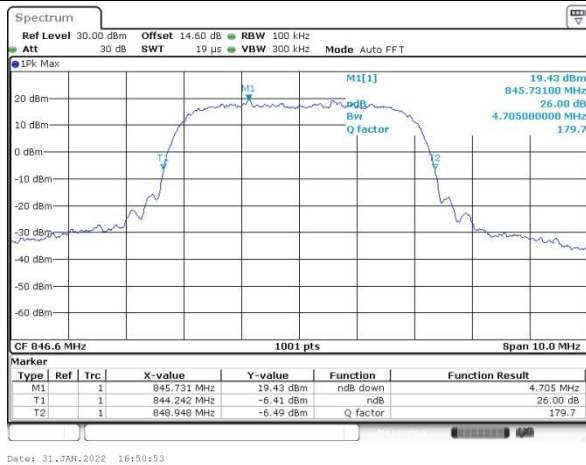
## Middle Channel



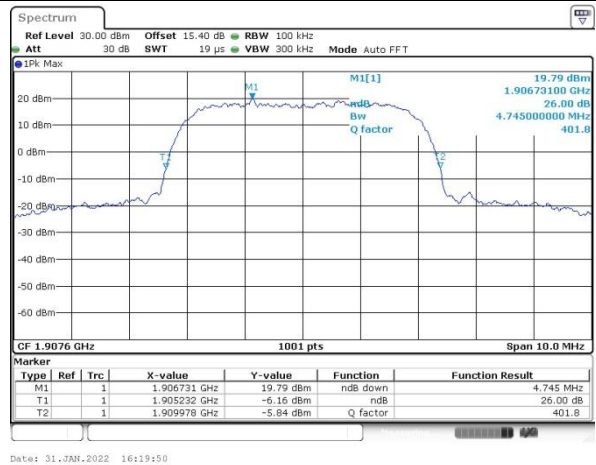
## Middle Channel



## Highest Channel



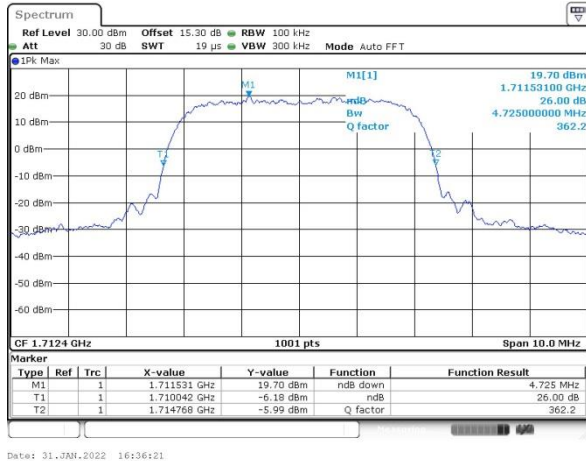
## Highest Channel



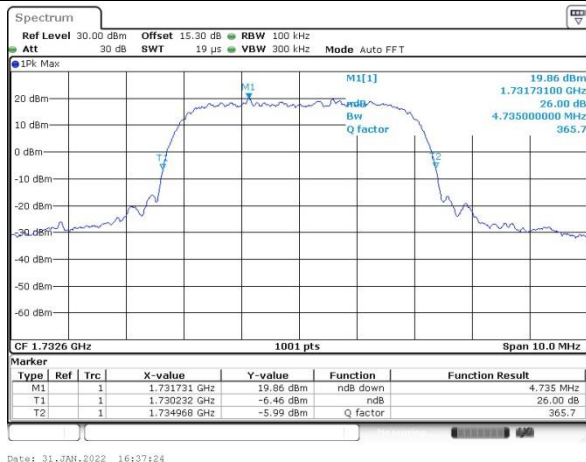


WCDMA Band IV (RMC 12.2Kbps)

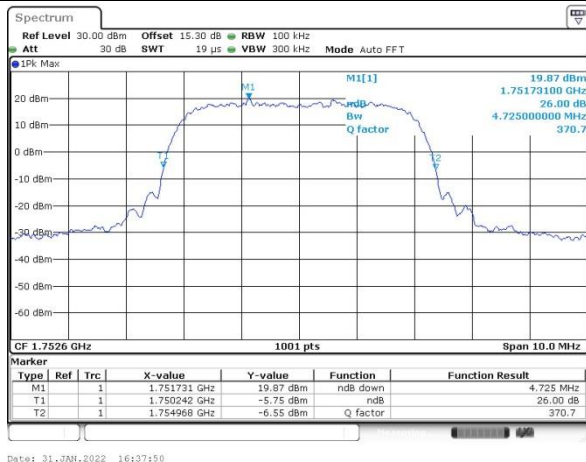
Lowest Channel



Middle Channel



Highest Channel



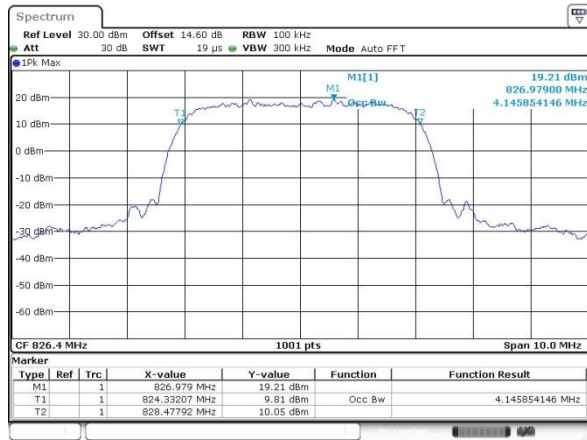
**Occupied Bandwidth**

| Mode       | WCDMA Band V(MHz) | WCDMA Band II(MHz) | WCDMA Band IV(MHz) |
|------------|-------------------|--------------------|--------------------|
| Mod.       | RMC 12.2Kbps      | RMC 12.2Kbps       | RMC 12.2Kbps       |
| Lowest CH  | 4.15              | 4.15               | 4.15               |
| Middle CH  | 4.14              | 4.15               | 4.15               |
| Highest CH | 4.13              | 4.16               | 4.14               |



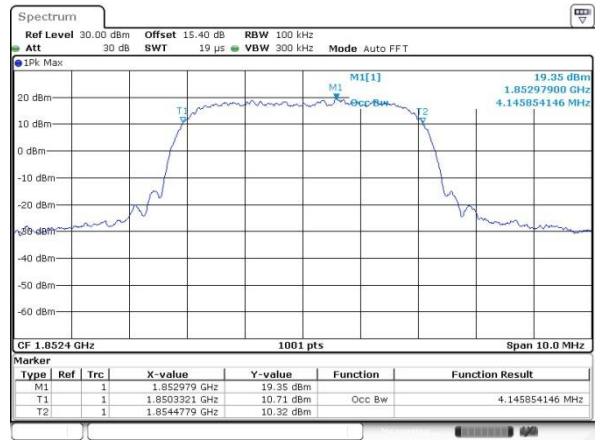
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

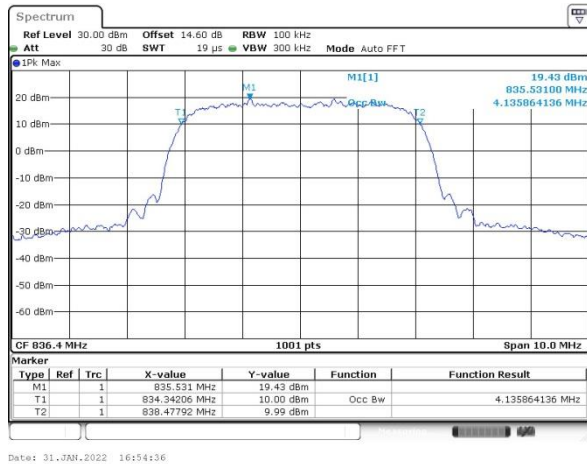


## WCDMA Band II (RMC 12.2Kbps)

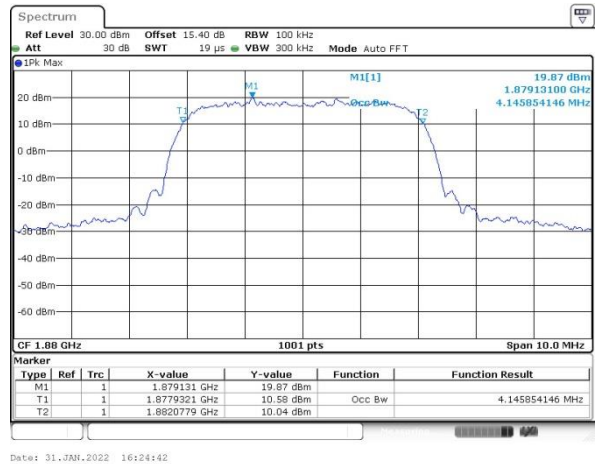
## Lowest Channel



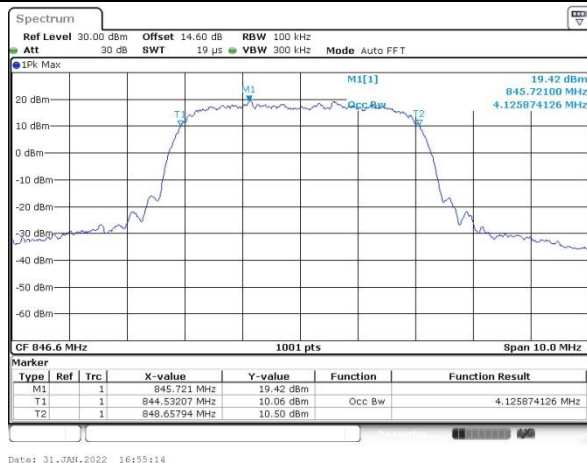
## Middle Channel



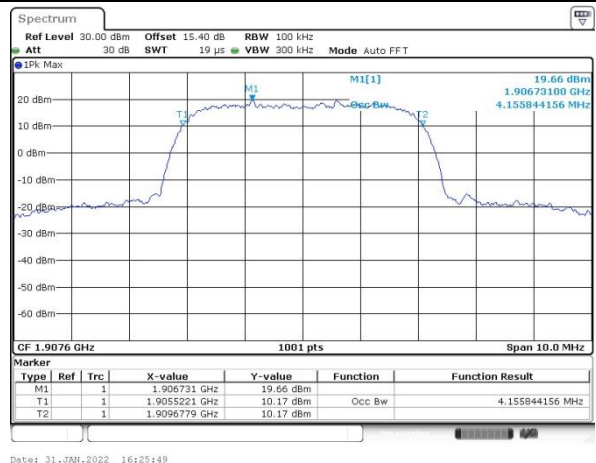
## Middle Channel



## Highest Channel



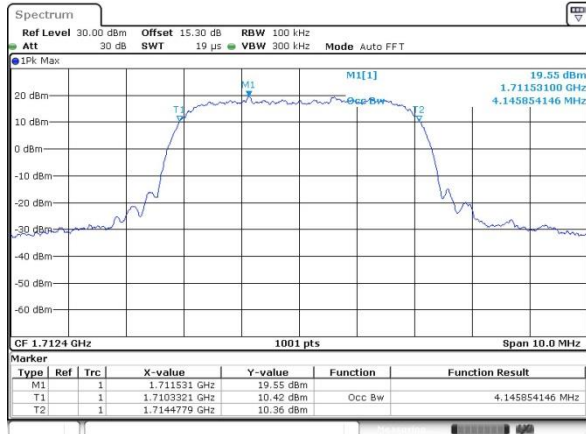
## Highest Channel



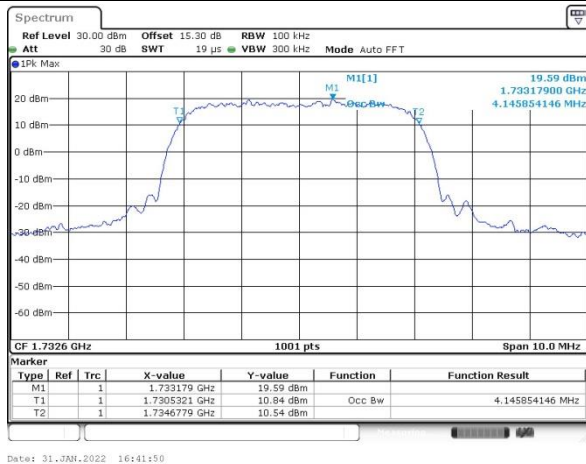


WCDMA Band IV (RMC 12.2Kbps)

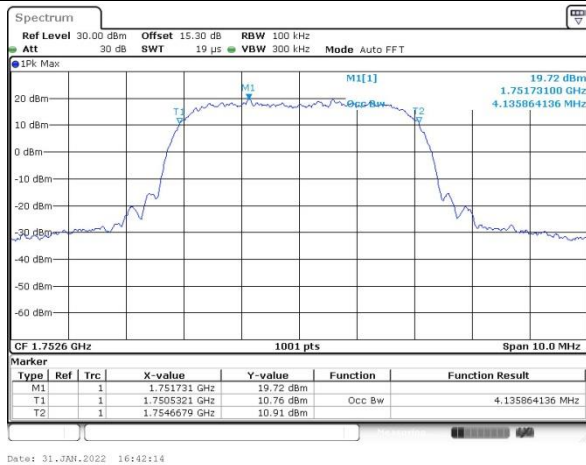
Lowest Channel



Middle Channel



Highest Channel

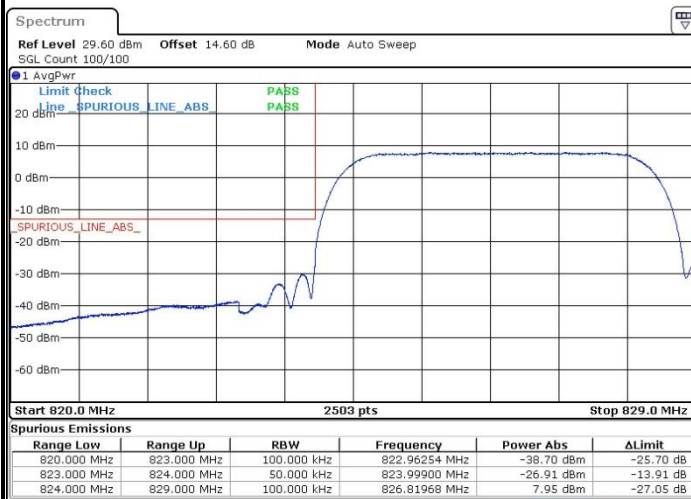




## Conducted Band Edge

### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge



### WCDMA Band II (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge





## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



Date: 31.JAN.2022 16:43:20

## Highest Band Edge



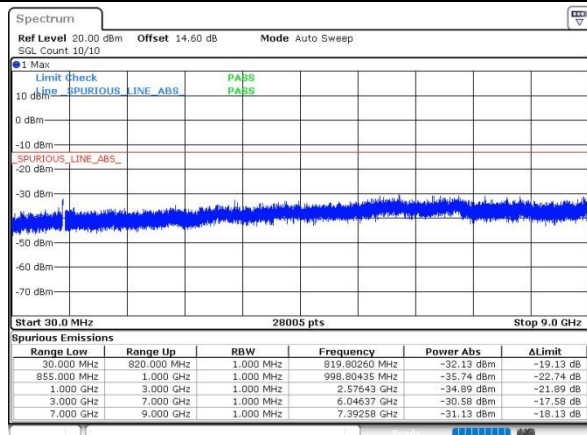
Date: 31.JAN.2022 16:44:04



# Conducted Spurious Emission

## WCDMA Band V (RMC 12.2Kbps)

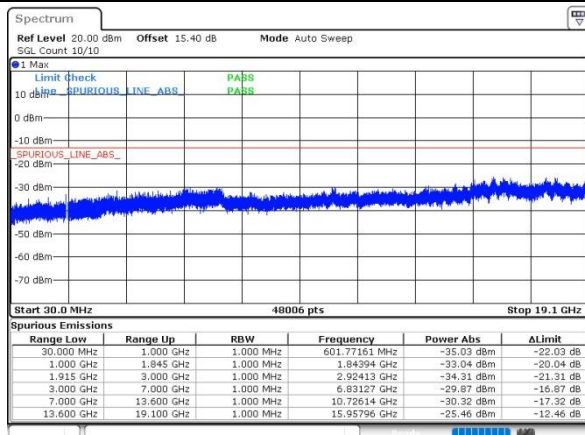
### Lowest Channel



Date: 31.JAN.2022 16:57:29

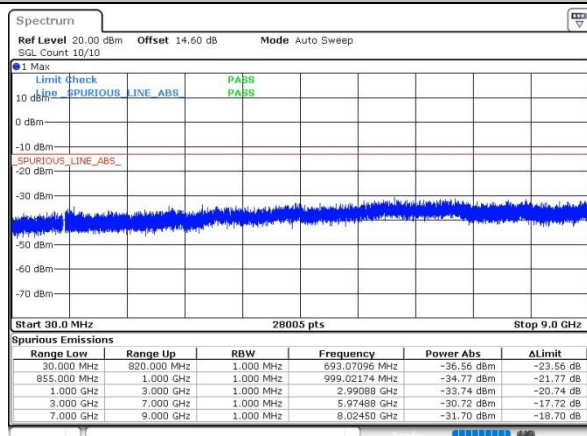
## WCDMA Band II (RMC 12.2Kbps)

### Lowest Channel



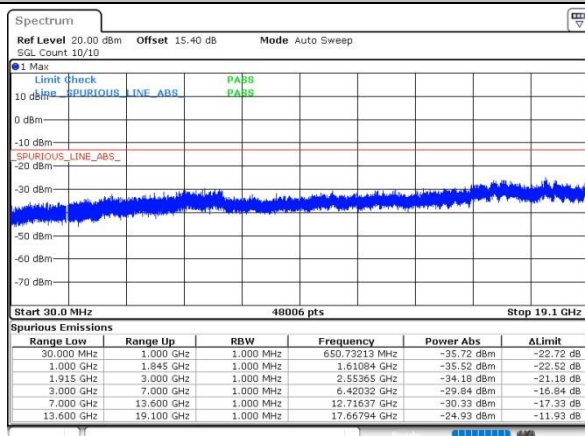
Date: 31.JAN.2022 16:27:59

### Middle Channel



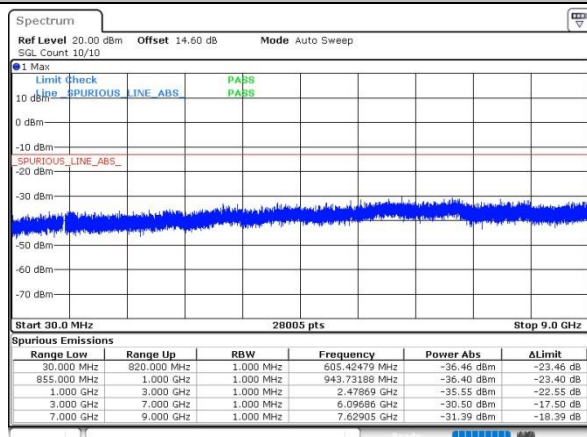
Date: 31.JAN.2022 16:58:08

### Middle Channel



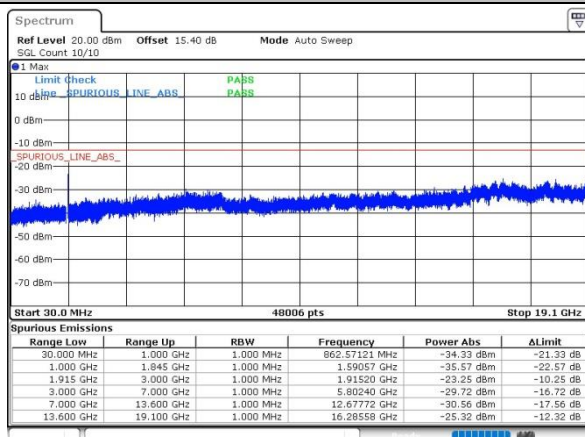
Date: 31.JAN.2022 16:29:08

### Highest Channel



Date: 31.JAN.2022 16:58:41

### Highest Channel

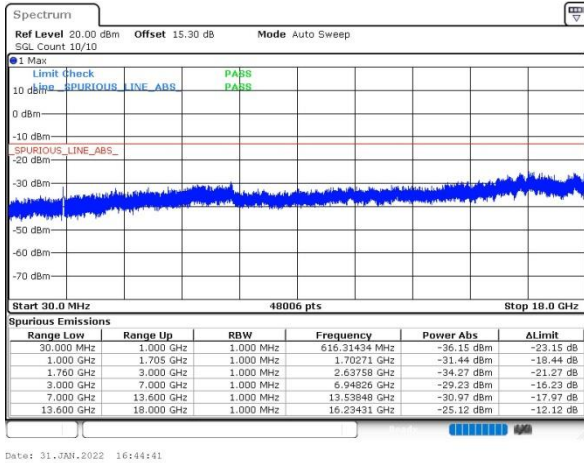


Date: 31.JAN.2022 16:30:20

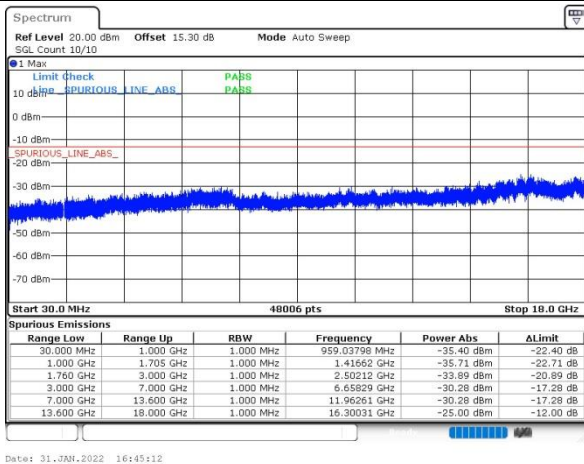


WCDMA Band IV (RMC 12.2Kbps)

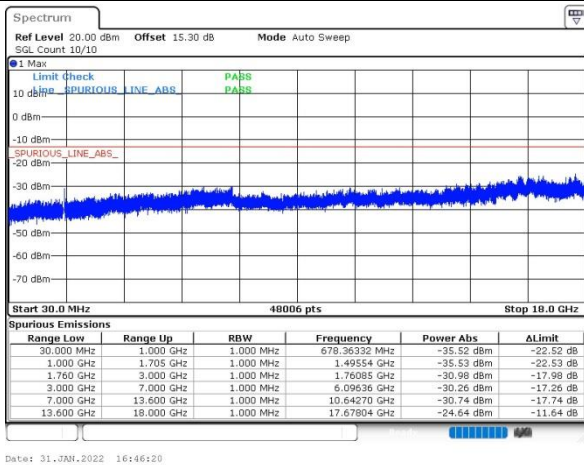
Lowest Channel



Middle Channel



Highest Channel



**Frequency Stability**

| Test Conditions  | Middle Channel    | WCDMA Band V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0033                         | PASS            |
| 40               | Normal Voltage    | 0.0328                         |                 |
| 30               | Normal Voltage    | 0.0355                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0044                         |                 |
| 0                | Normal Voltage    | 0.0285                         |                 |
| -10              | Normal Voltage    | 0.0071                         |                 |
| -20              | Normal Voltage    | 0.0141                         |                 |
| -30              | Normal Voltage    | 0.0336                         |                 |
| 20               | Maximum Voltage   | 0.0381                         |                 |
| 20               | Normal Voltage    | 0.0141                         |                 |
| 20               | Battery End Point | 0.0079                         |                 |

**Note:**

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.45V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions  | Middle Channel    | WCDMA Band II<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0115                          | PASS             |
| 40               | Normal Voltage    | 0.0142                          |                  |
| 30               | Normal Voltage    | 0.0133                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0121                          |                  |
| 0                | Normal Voltage    | 0.0151                          |                  |
| -10              | Normal Voltage    | 0.0237                          |                  |
| -20              | Normal Voltage    | 0.0044                          |                  |
| -30              | Normal Voltage    | 0.0121                          |                  |
| 20               | Maximum Voltage   | 0.0136                          |                  |
| 20               | Normal Voltage    | 0.0141                          |                  |
| 20               | Battery End Point | 0.0009                          |                  |

**Note:**

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.45V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



| Test Conditions  | Middle Channel    | WCDMA Band IV<br>(RMC 12.2Kbps) | Limit<br>Note 2. |
|------------------|-------------------|---------------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                 | Result           |
| 50               | Normal Voltage    | 0.0076                          | PASS             |
| 40               | Normal Voltage    | 0.0115                          |                  |
| 30               | Normal Voltage    | 0.0009                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0018                          |                  |
| 0                | Normal Voltage    | 0.0022                          |                  |
| -10              | Normal Voltage    | 0.0105                          |                  |
| -20              | Normal Voltage    | 0.0131                          |                  |
| -30              | Normal Voltage    | 0.0071                          |                  |
| 20               | Maximum Voltage   | 0.0023                          |                  |
| 20               | Normal Voltage    | 0.0028                          |                  |
| 20               | Battery End Point | 0.0144                          |                  |

**Note:**

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.45V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Chris Chen | Temperature :       | 22~23°C |
|                 |            | Relative Humidity : | 41~42%  |

| GSM850 (GPRS 1 Tx slots) |                   |             |               |                   |                    |                      |                       |                    |
|--------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 1672              | -40.15      | -13           | -27.15            | -47.12             | 1.58                 | 10.70                 | H                  |
|                          | 2510              | -51.14      | -13           | -38.14            | -59.39             | 2.102                | 12.50                 | H                  |
|                          | 3348              | -59.85      | -13           | -46.85            | -68.74             | 2.856                | 13.90                 | H                  |
|                          | 1672              | -42.39      | -13           | -29.39            | -49.36             | 1.58                 | 10.70                 | V                  |
|                          | 2510              | -46.27      | -13           | -33.27            | -54.52             | 2.10                 | 12.50                 | V                  |
|                          | 3348              | -60.06      | -13           | -47.06            | -68.95             | 2.86                 | 13.90                 | V                  |

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

| GSM850 (EDGE 1 Tx slots) |                   |             |               |                   |                    |                      |                       |                    |
|--------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 1672              | -49.59      | -13           | -36.59            | -56.56             | 1.58                 | 10.70                 | H                  |
|                          | 2512              | -57.73      | -13           | -44.73            | -65.98             | 2.102                | 12.50                 | H                  |
|                          | 3344              | -60.25      | -13           | -47.25            | -69.14             | 2.856                | 13.90                 | H                  |
|                          | 1672              | -53.03      | -13           | -40.03            | -60.00             | 1.58                 | 10.70                 | V                  |
|                          | 2512              | -56.40      | -13           | -43.40            | -64.65             | 2.10                 | 12.50                 | V                  |
|                          | 3344              | -60.22      | -13           | -47.22            | -69.11             | 2.86                 | 13.90                 | V                  |

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

| GSM1900 (GPRS 1 Tx slots) |                   |              |               |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3759              | -52.69       | -13           | -39.69            | -64.95             | 2.64                 | 14.90                 | H                  |
|                           | 5640              | -46.54       | -13           | -33.54            | -58.40             | 2.94                 | 14.80                 | H                  |
|                           | 7524              | -51.65       | -13           | -38.65            | -61.42             | 3.39                 | 13.16                 | H                  |
|                           | 3759              | -54.94       | -13           | -41.94            | -67.20             | 2.64                 | 14.90                 | V                  |
|                           | 5640              | -48.61       | -13           | -35.61            | -60.47             | 2.94                 | 14.80                 | V                  |
|                           | 7524              | -52.03       | -13           | -39.03            | -61.80             | 3.39                 | 13.16                 | V                  |

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



| GSM1900 (EDGE 1 Tx slots) |                   |              |               |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3765              | -56.18       | -13           | -43.18            | -68.44             | 2.64                 | 14.90                 | H                  |
|                           | 5640              | -53.95       | -13           | -40.95            | -65.81             | 2.94                 | 14.80                 | H                  |
|                           | 7515              | -52.08       | -13           | -39.08            | -61.85             | 3.39                 | 13.16                 | H                  |
|                           | 3765              | -56.33       | -13           | -43.33            | -68.59             | 2.64                 | 14.90                 | V                  |
|                           | 5640              | -55.03       | -13           | -42.03            | -66.89             | 2.94                 | 14.80                 | V                  |
|                           | 7515              | -52.32       | -13           | -39.32            | -62.09             | 3.39                 | 13.16                 | V                  |

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

| WCDMA Band V(RMC 12.2Kbps) |                   |             |               |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 1672              | -64.40      | -13           | -51.40            | -71.37             | 1.58                 | 10.70                 | H                  |
|                            | 2512              | -60.32      | -13           | -47.32            | -68.57             | 2.102                | 12.50                 | H                  |
|                            | 3344              | -59.70      | -13           | -46.70            | -68.59             | 2.856                | 13.90                 | H                  |
|                            | 1672              | -63.24      | -13           | -50.24            | -70.21             | 1.58                 | 10.70                 | V                  |
|                            | 2512              | -59.49      | -13           | -46.49            | -67.74             | 2.10                 | 12.50                 | V                  |
|                            | 3344              | -59.78      | -13           | -46.78            | -68.67             | 2.86                 | 13.90                 | V                  |

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

| WCDMA Band II(RMC 12.2Kbps) |                   |              |               |                   |                    |                      |                       |                    |
|-----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                     | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                      | 3765              | -56.58       | -13           | -43.58            | -68.84             | 2.64                 | 14.90                 | H                  |
|                             | 5640              | -54.23       | -13           | -41.23            | -66.09             | 2.94                 | 14.80                 | H                  |
|                             | 7515              | -51.99       | -13           | -38.99            | -61.76             | 3.39                 | 13.16                 | H                  |
|                             | 3765              | -56.49       | -13           | -43.49            | -68.75             | 2.64                 | 14.90                 | V                  |
|                             | 5640              | -54.83       | -13           | -41.83            | -66.69             | 2.94                 | 14.80                 | V                  |
|                             | 7515              | -52.09       | -13           | -39.09            | -61.86             | 3.39                 | 13.16                 | V                  |

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

| WCDMA Band IV(RMC 12.2Kbps) |                   |              |               |                   |                    |                      |                       |                    |
|-----------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                     | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                      | 3465              | -57.54       | -13           | -44.54            | -68.28             | 2.604                | 13.34                 | H                  |
|                             | 5190              | -53.88       | -13           | -40.88            | -64.39             | 3.011                | 13.52                 | H                  |
|                             | 6930              | -53.29       | -13           | -40.29            | -63.49             | 3.271                | 13.47                 | H                  |
|                             | 3465              | -57.55       | -13           | -44.55            | -68.29             | 2.604                | 13.34                 | V                  |
|                             | 5190              | -54.13       | -13           | -41.13            | -64.64             | 3.011                | 13.52                 | V                  |
|                             | 6930              | -53.34       | -13           | -40.34            | -63.54             | 3.271                | 13.47                 | V                  |

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