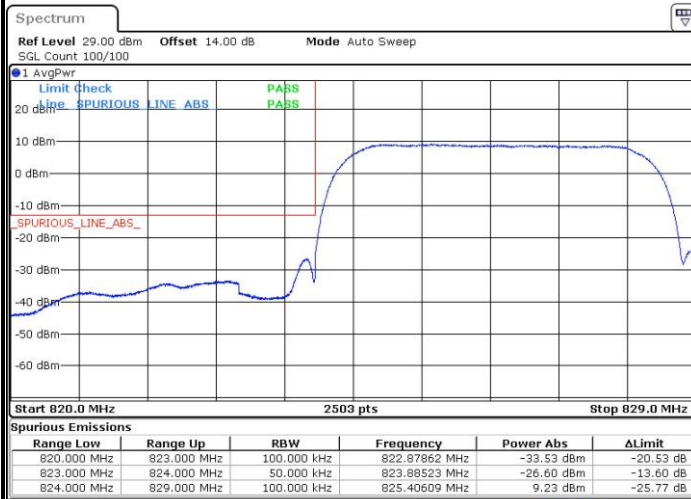




## Conducted Band Edge

### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Band Edge

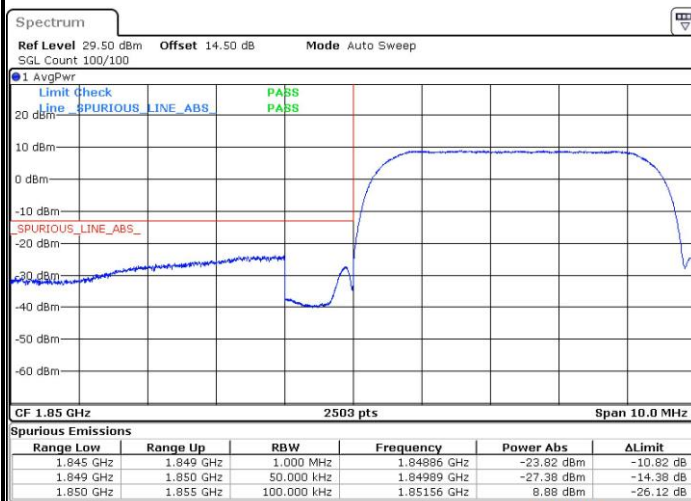


#### Highest Band Edge



### WCDMA Band II (RMC 12.2Kbps)

#### Lowest Band Edge



#### Highest Band Edge

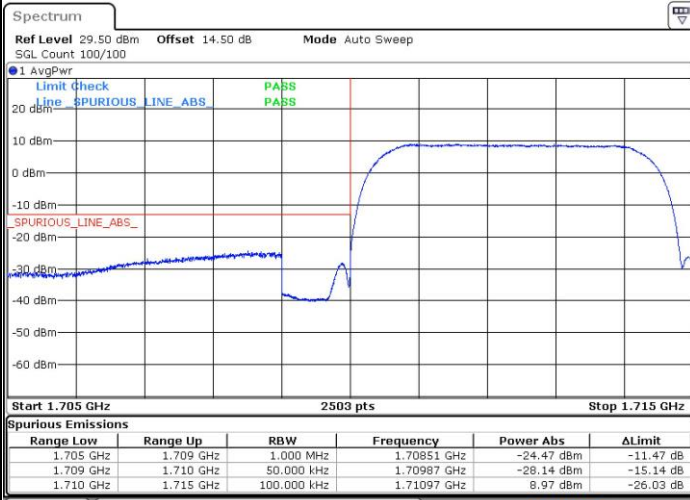




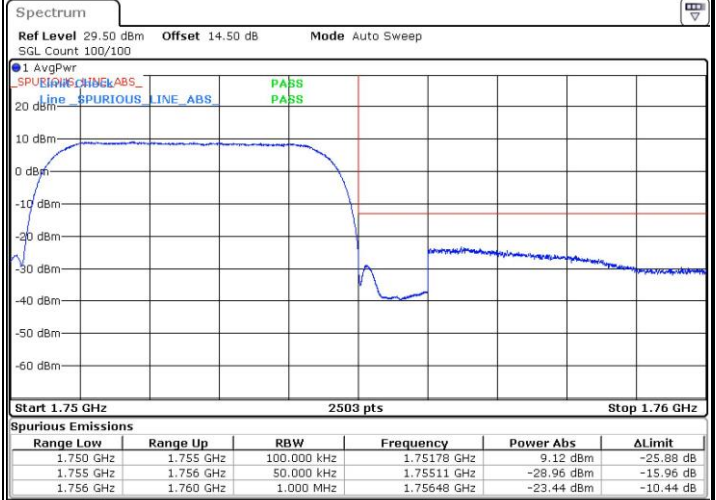
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 5.JAN.2025 11:32:17



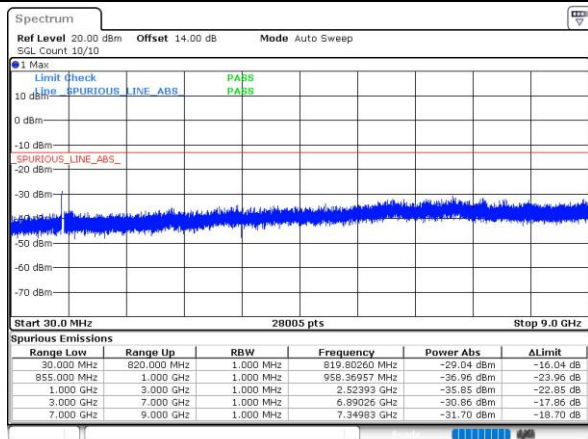
Date: 5.JAN.2025 11:37:29



# Conducted Spurious Emission

## WCDMA Band V (RMC 12.2Kbps)

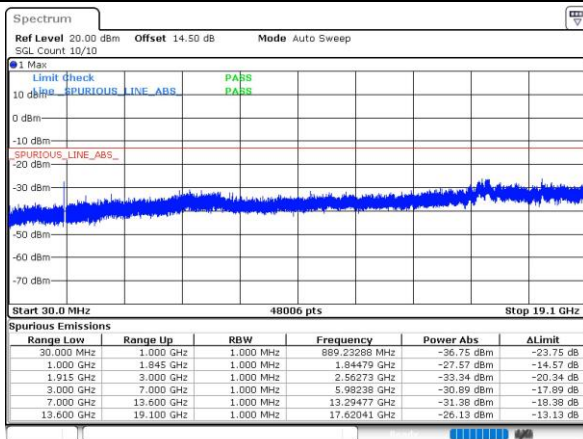
### Lowest Channel



Date: 5.JAN.2025 11:42:30

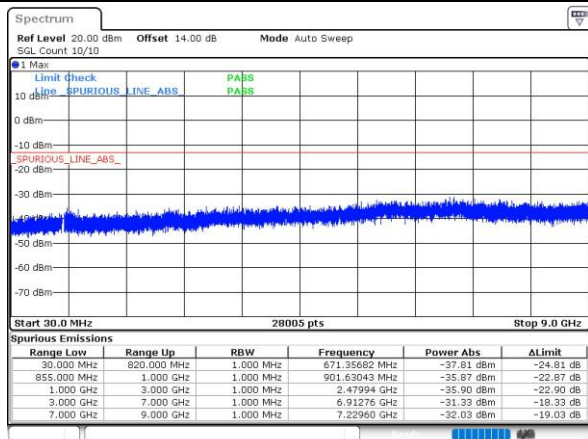
## WCDMA Band II (RMC 12.2Kbps)

### Lowest Channel



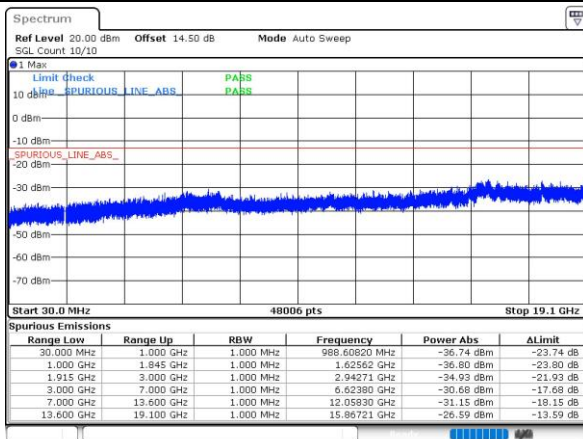
Date: 5.JAN.2025 11:24:08

### Middle Channel



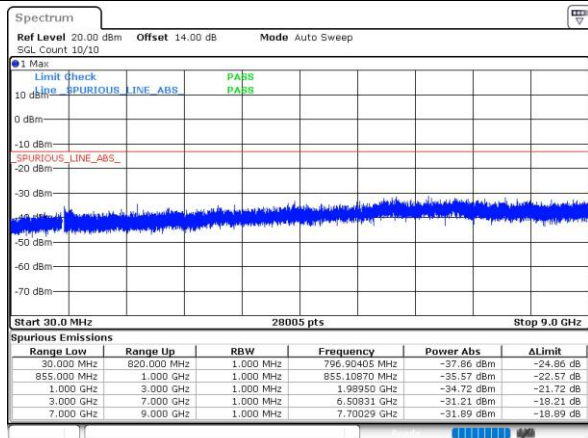
Date: 5.JAN.2025 11:43:53

### Middle Channel



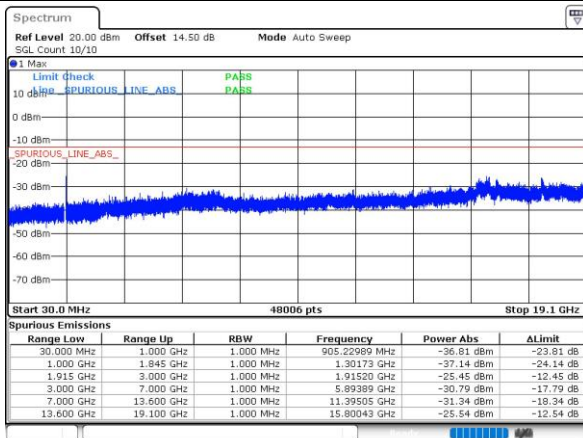
Date: 5.JAN.2025 11:27:00

### Highest Channel



Date: 5.JAN.2025 11:46:23

### Highest Channel

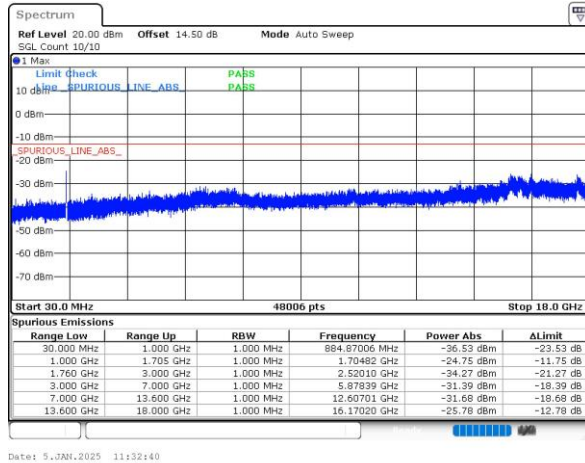


Date: 5.JAN.2025 11:28:43

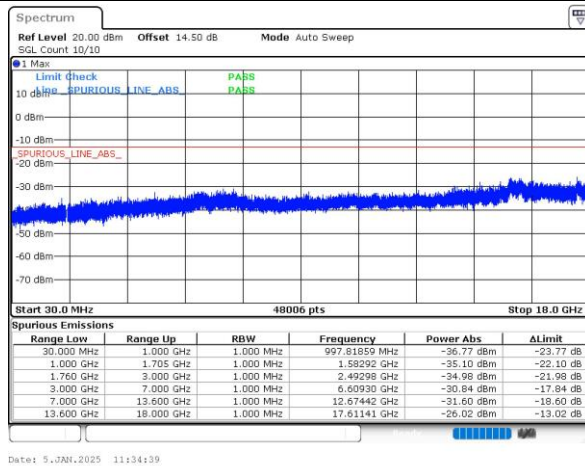


## WCDMA Band IV (RMC 12.2Kbps)

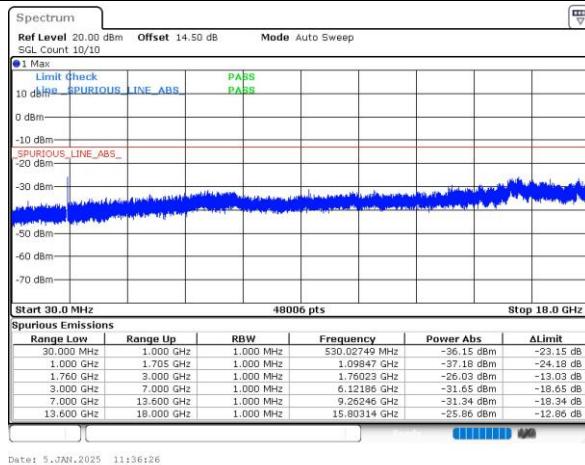
## Lowest Channel



## 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    | 0.0009                         | PASS            |
| 40               | Normal Voltage    | 0.0066                         |                 |
| 30               | Normal Voltage    | 0.0037                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0100                         |                 |
| 0                | Normal Voltage    | 0.0087                         |                 |
| -10              | Normal Voltage    | 0.0048                         |                 |
| -20              | Normal Voltage    | 0.0100                         |                 |
| -30              | Normal Voltage    | 0.0111                         |                 |
| 20               | Maximum Voltage   | 0.0106                         |                 |
| 20               | Normal Voltage    | 0.0000                         |                 |
| 20               | Battery End Point | 0.0080                         |                 |

| 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    | 0.0046                          | PASS             |
| 40               | Normal Voltage    | 0.0062                          |                  |
| 30               | Normal Voltage    | 0.0044                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0057                          |                  |
| 0                | Normal Voltage    | 0.0050                          |                  |
| -10              | Normal Voltage    | 0.0051                          |                  |
| -20              | Normal Voltage    | 0.0002                          |                  |
| -30              | Normal Voltage    | 0.0047                          |                  |
| 20               | Maximum Voltage   | 0.0056                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0061                          |                  |

**Note:**

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.5 V
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    | 0.0006                          | PASS             |
| 40               | Normal Voltage    | 0.0008                          |                  |
| 30               | Normal Voltage    | 0.0013                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0019                          |                  |
| 0                | Normal Voltage    | 0.0014                          |                  |
| -10              | Normal Voltage    | 0.0007                          |                  |
| -20              | Normal Voltage    | 0.0013                          |                  |
| -30              | Normal Voltage    | 0.0010                          |                  |
| 20               | Maximum Voltage   | 0.0001                          |                  |
| 20               | Normal Voltage    | 0.0000                          |                  |
| 20               | Battery End Point | 0.0016                          |                  |

**Note:**

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.5 V
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 : | PingZhou Liang | 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.

| GSM850 (GSM) _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             | 1672.8            | -66.10      | -13           | -53.10            | -76.06            | -69.35             | 4.00                 | 9.40                  | H                  |
|                    | 2509.2            | -39.66      | -13           | -26.66            | -54.06            | -43.23             | 4.88                 | 10.60                 | H                  |
|                    | 3345.6            | -62.43      | -13           | -49.43            | -78.42            | -67.36             | 5.52                 | 12.60                 | H                  |
|                    | 1672.8            | -66.58      | -13           | -53.58            | -75.99            | -69.83             | 4.00                 | 9.40                  | V                  |
|                    | 2509.2            | -48.98      | -13           | -35.98            | -63.34            | -52.55             | 4.88                 | 10.60                 | V                  |
|                    | 3345.6            | -62.92      | -13           | -49.92            | -78.64            | -67.85             | 5.52                 | 12.60                 | V                  |

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

| GSM850 (EDGE 1 Tx slots) _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                         | 1672.8            | -65.61      | -13           | -52.61            | -75.57            | -68.86             | 4.00                 | 9.40                  | H                  |
|                                | 2509.2            | -43.45      | -13           | -30.45            | -57.85            | -47.02             | 4.88                 | 10.60                 | H                  |
|                                | 3345.6            | -62.42      | -13           | -49.42            | -78.41            | -67.35             | 5.52                 | 12.60                 | H                  |
|                                | 1672.8            | -66.30      | -13           | -53.30            | -75.71            | -69.55             | 4.00                 | 9.40                  | V                  |
|                                | 2509.2            | -53.53      | -13           | -40.53            | -67.89            | -57.10             | 4.88                 | 10.60                 | V                  |
|                                | 3345.6            | -62.89      | -13           | -49.89            | -78.61            | -67.82             | 5.52                 | 12.60                 | V                  |

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

| GSM1900 (GSM) _ANT4 |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel             | Frequency ( MHz ) | EIRP ( 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              | 3760              | -61.50       | -13           | -48.50            | -80.13            | -68.25             | 5.85                 | 12.60                 | H                  |
|                     | 5640              | -58.86       | -13           | -45.86            | -82.12            | -64.66             | 7.30                 | 13.10                 | H                  |
|                     | 7520              | -55.03       | -13           | -42.03            | -81.84            | -58.18             | 8.35                 | 11.50                 | H                  |
|                     | 3760              | -61.51       | -13           | -48.51            | -80.07            | -68.26             | 5.85                 | 12.60                 | V                  |
|                     | 5640              | -59.48       | -13           | -46.48            | -81.99            | -65.28             | 7.30                 | 13.10                 | V                  |
|                     | 7520              | -54.95       | -13           | -41.95            | -81.74            | -58.10             | 8.35                 | 11.50                 | V                  |

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



| GSM1900 (EDGE 1 Tx slots) _ANT4 |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                         | Frequency ( MHz ) | EIRP ( 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                          | 3760              | -61.53       | -13           | -48.53            | -80.16            | -68.28             | 5.85                 | 12.60                 | H                  |
|                                 | 5640              | -58.81       | -13           | -45.81            | -82.07            | -64.61             | 7.30                 | 13.10                 | H                  |
|                                 | 7520              | -55.14       | -13           | -42.14            | -81.95            | -58.29             | 8.35                 | 11.50                 | H                  |
|                                 | 3760              | -61.57       | -13           | -48.57            | -80.13            | -68.32             | 5.85                 | 12.60                 | V                  |
|                                 | 5640              | -59.57       | -13           | -46.57            | -82.08            | -65.37             | 7.30                 | 13.10                 | V                  |
|                                 | 7520              | -55.10       | -13           | -42.10            | -81.89            | -58.25             | 8.35                 | 11.50                 | V                  |

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

| WCDMA Band V(RMC 12.2Kbps) _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                           | 1672.8            | -65.76      | -13           | -52.76            | -75.72            | -69.01             | 4.00                 | 9.40                  | H                  |
|                                  | 2509.2            | -62.70      | -13           | -49.70            | -77.10            | -66.27             | 4.88                 | 10.60                 | H                  |
|                                  | 3345.6            | -62.88      | -13           | -49.88            | -78.87            | -67.81             | 5.52                 | 12.60                 | H                  |
|                                  | 1672.8            | -66.77      | -13           | -53.77            | -76.18            | -70.02             | 4.00                 | 9.40                  | V                  |
|                                  | 2509.2            | -63.47      | -13           | -50.47            | -77.83            | -67.04             | 4.88                 | 10.60                 | V                  |
|                                  | 3345.6            | -62.98      | -13           | -49.98            | -78.70            | -67.91             | 5.52                 | 12.60                 | V                  |

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

| WCDMA Band II(RMC 12.2Kbps) _ANT4 |                   |              |               |                   |                   |                    |                      |                       |                    |
|-----------------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                           | Frequency ( MHz ) | EIRP ( 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                            | 3760              | -61.53       | -13           | -48.53            | -80.16            | -68.28             | 5.85                 | 12.60                 | H                  |
|                                   | 5640              | -58.39       | -13           | -45.39            | -81.65            | -64.19             | 7.30                 | 13.10                 | H                  |
|                                   | 7520              | -54.93       | -13           | -41.93            | -81.74            | -58.08             | 8.35                 | 11.50                 | H                  |
|                                   | 3760              | -61.54       | -13           | -48.54            | -80.1             | -68.29             | 5.85                 | 12.60                 | V                  |
|                                   | 5640              | -58.74       | -13           | -45.74            | -81.25            | -64.54             | 7.30                 | 13.10                 | V                  |
|                                   | 7520              | -54.55       | -13           | -41.55            | -81.34            | -57.70             | 8.35                 | 11.50                 | V                  |

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



| WCDMA Band IV(RMC 12.2Kbps) _ANT4 |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| 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                            | 3465.2               | -62.03          | -13              | -49.03                  | -78.93                  | -68.88                   | 5.65                       | 12.50                       | H                     |
|                                   | 5197.8               | -60.76          | -13              | -47.76                  | -82.53                  | -66.43                   | 7.13                       | 12.80                       | H                     |
|                                   | 6930.4               | -56.35          | -13              | -43.35                  | -82.15                  | -59.75                   | 8.40                       | 11.80                       | H                     |
|                                   | 3465.2               | -61.68          | -13              | -48.68                  | -78.6                   | -68.53                   | 5.65                       | 12.50                       | V                     |
|                                   | 5197.8               | -60.30          | -13              | -47.30                  | -82.38                  | -65.97                   | 7.13                       | 12.80                       | V                     |
|                                   | 6930.4               | -56.12          | -13              | -43.12                  | -82.39                  | -59.52                   | 8.40                       | 11.80                       | V                     |

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