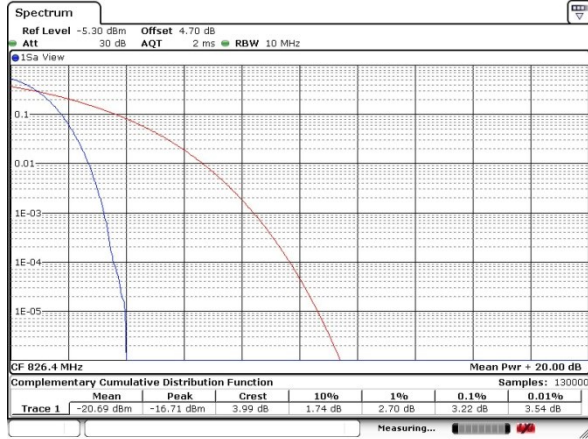




WCDMA Band V (RMC 12.2Kbps)

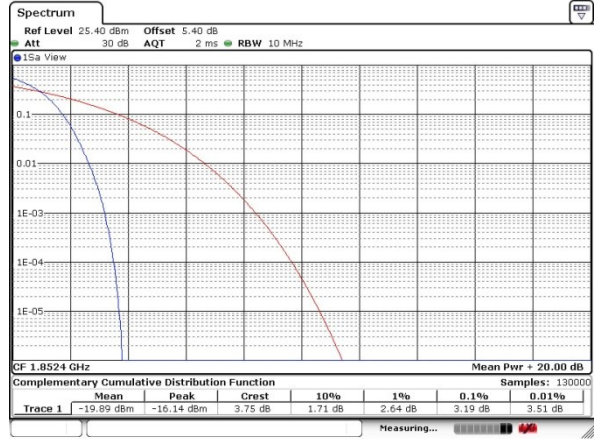
Lowest Channel



Date: 25 FEB 2020 10:20:22

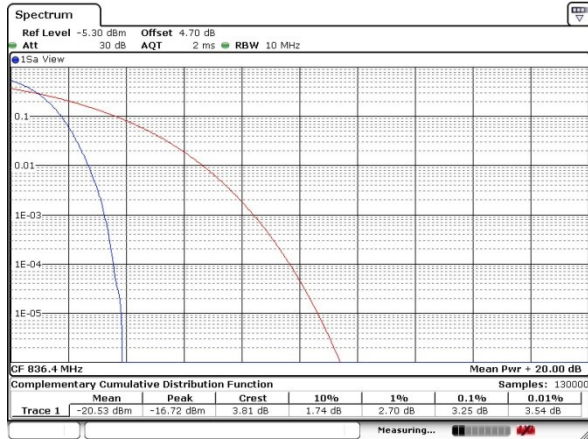
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



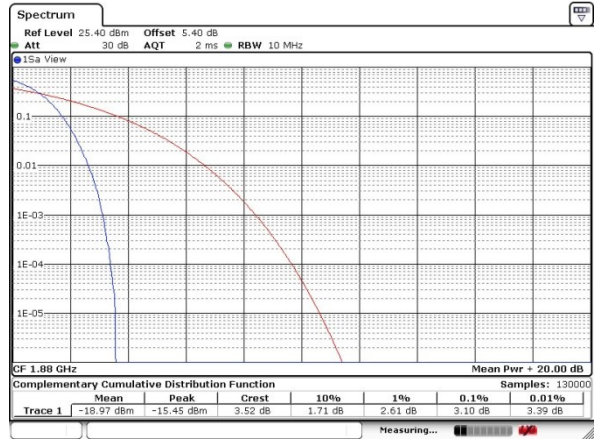
Date: 25 FEB 2020 10:21:18

Middle Channel



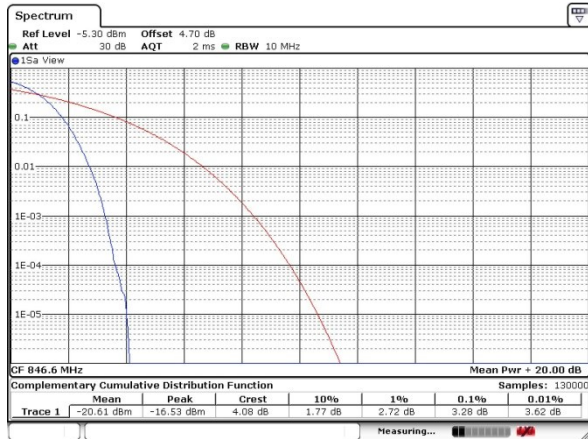
Date: 25 FEB 2020 10:20:35

Middle Channel



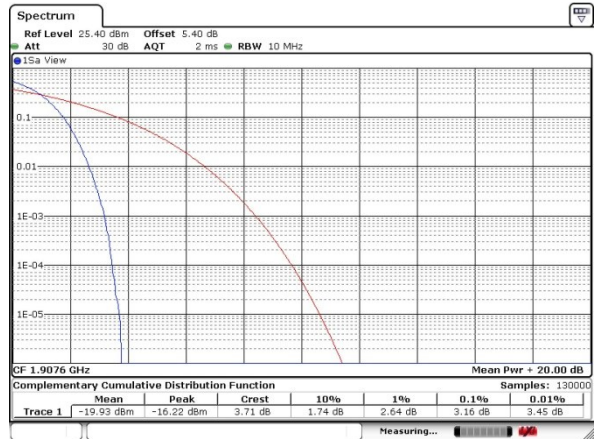
Date: 25 FEB 2020 10:21:28

Highest Channel

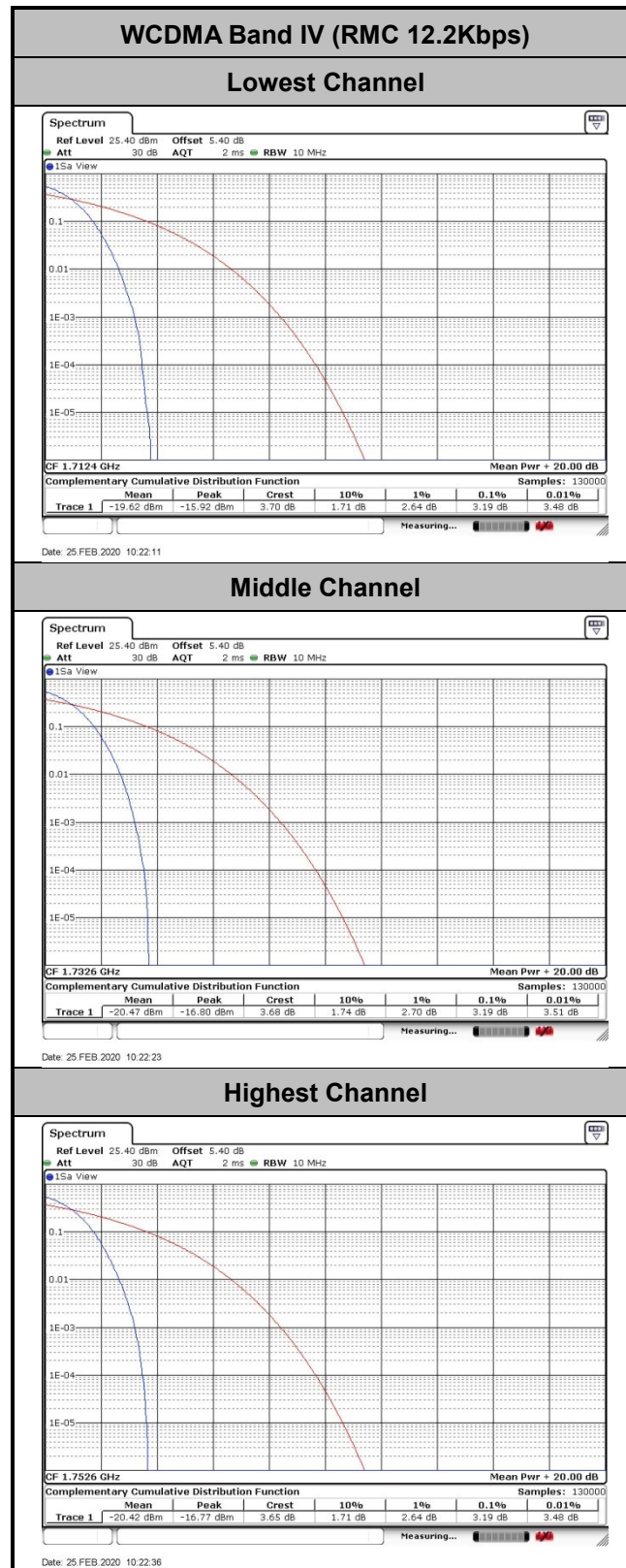


Date: 25 FEB 2020 10:20:43

Highest Channel



Date: 25 FEB 2020 10:21:42



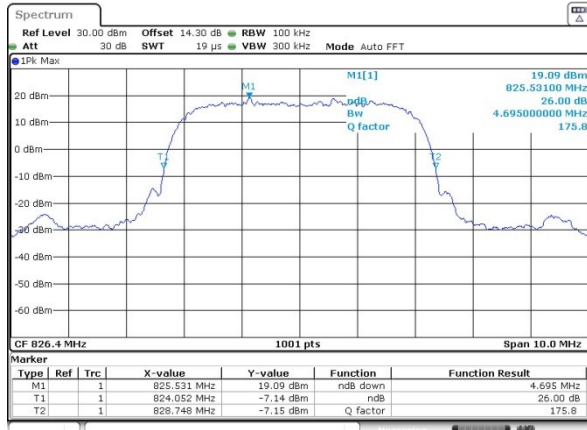
**26dB Bandwidth**

| Mode       | WCDMA Band V | WCDMA Band II | WCDMA Band IV |
|------------|--------------|---------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | RMC 12.2Kbps  |
| Lowest CH  | 4.695        | 4.705         | 4.695         |
| Middle CH  | 4.695        | 4.695         | 4.695         |
| Highest CH | 4.685        | 4.705         | 4.695         |



## WCDMA Band V (RMC 12.2Kbps)

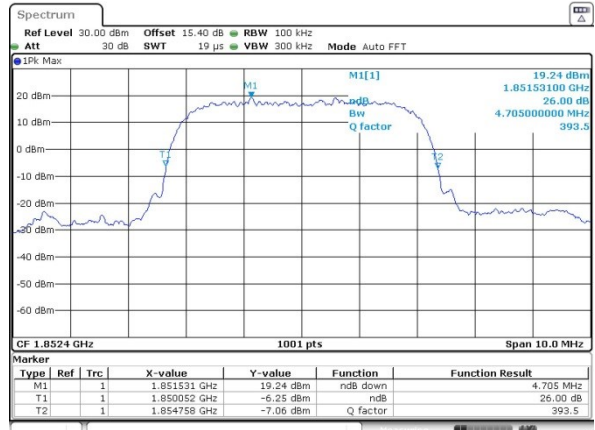
## Lowest Channel



Date: 13.FEB.2020 19:45:33

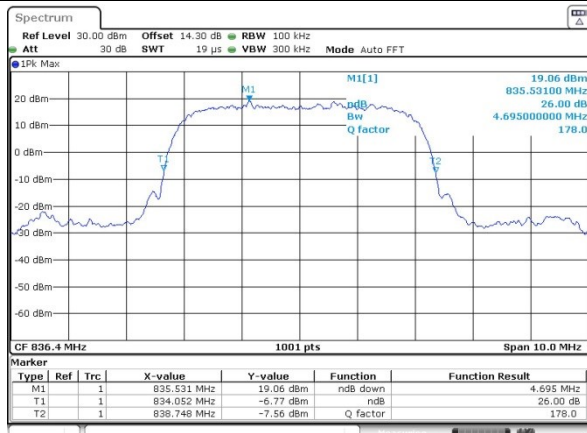
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



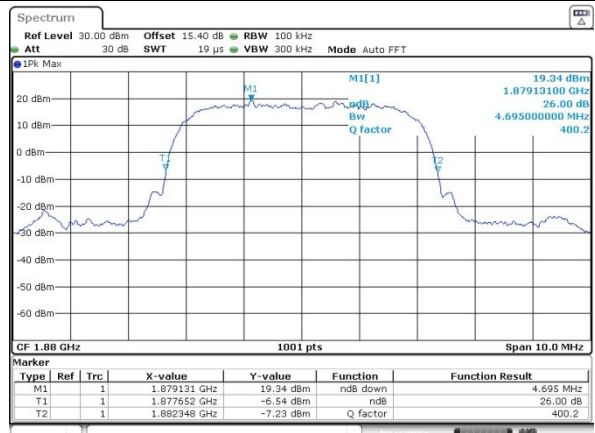
Date: 13.FEB.2020 19:55:09

## Middle Channel



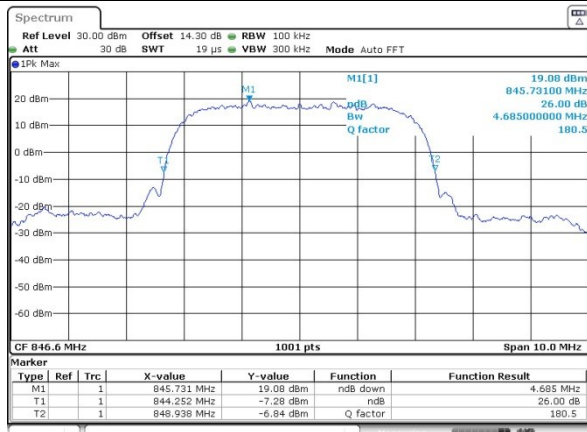
Date: 13.FEB.2020 19:45:54

## Middle Channel



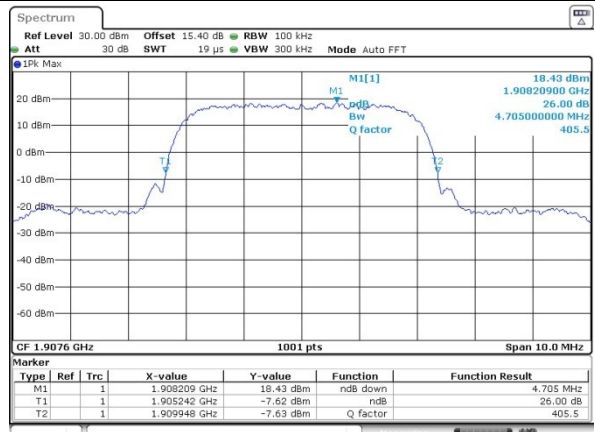
Date: 13.FEB.2020 19:55:31

## Highest Channel



Date: 13.FEB.2020 19:46:18

## Highest Channel

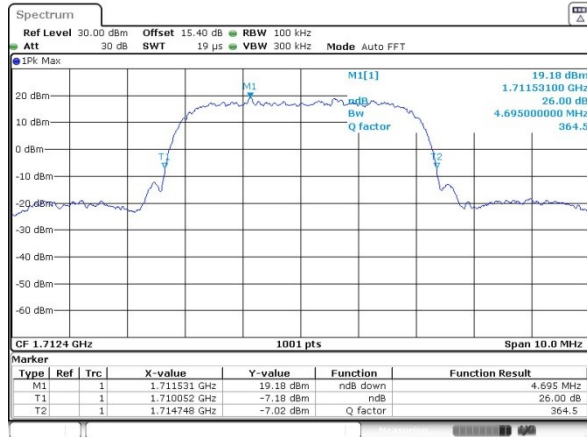


Date: 13.FEB.2020 19:55:52

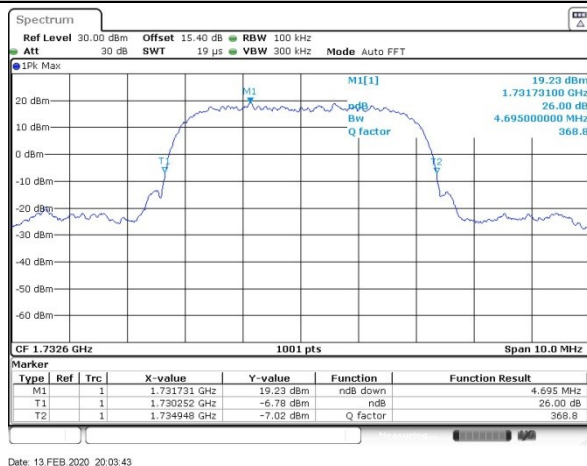


## WCDMA Band IV (RMC 12.2Kbps)

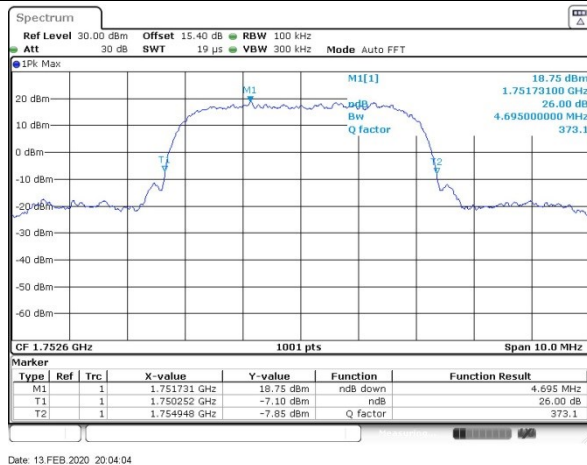
## Lowest Channel



## Middle Channel



## Highest Channel





## Occupied Bandwidth

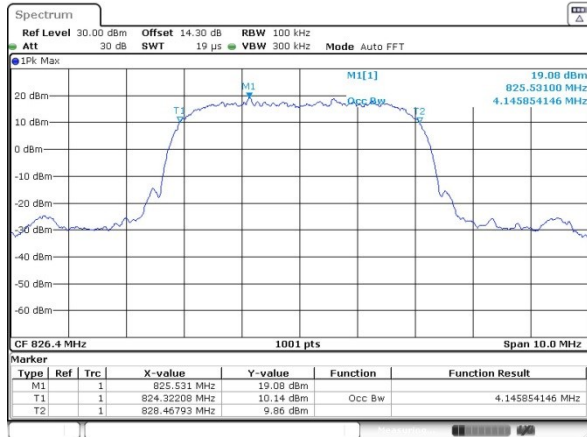
| Mode       | WCDMA Band V | WCDMA Band II | WCDMA Band IV |
|------------|--------------|---------------|---------------|
| Mod.       | RMC 12.2Kbps | RMC 12.2Kbps  | RMC 12.2Kbps  |
| Lowest CH  | 4.146        | 4.156         | 4.156         |
| Middle CH  | 4.146        | 4.146         | 4.156         |
| Highest CH | 4.146        | 4.166         | 4.166         |





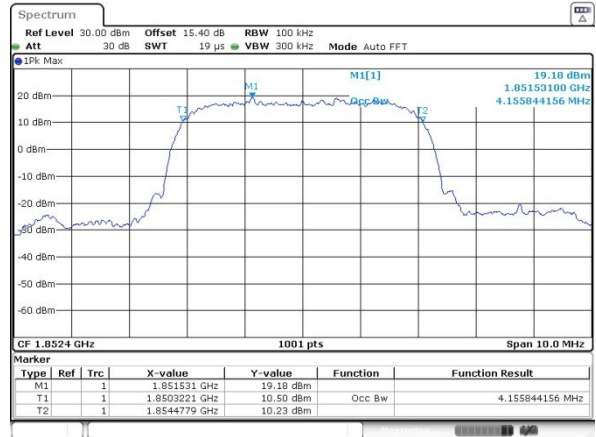
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

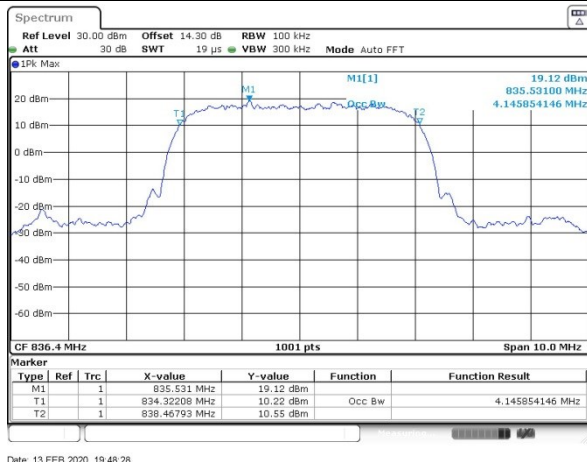


## WCDMA Band II (RMC 12.2Kbps)

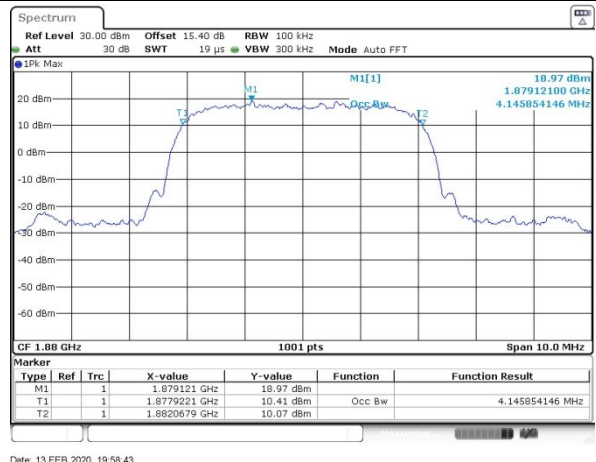
## Lowest Channel



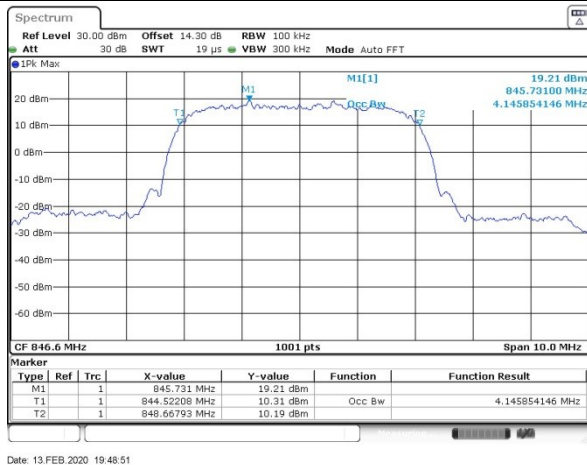
## Middle Channel



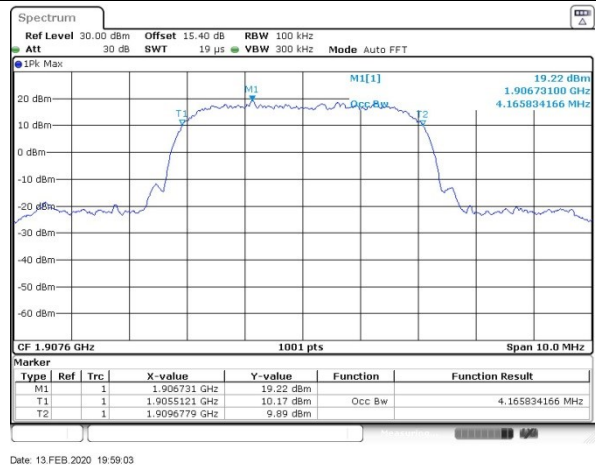
## Middle Channel



## Highest Channel



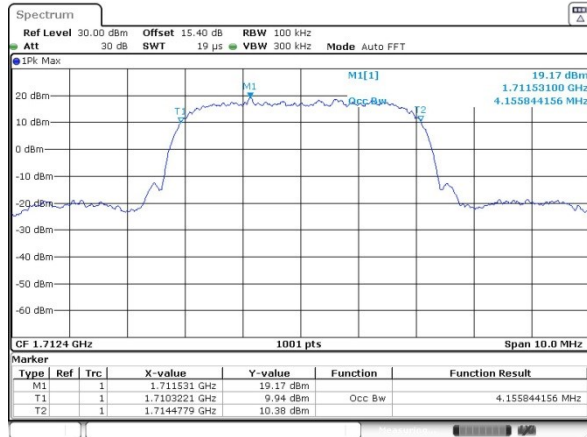
## Highest Channel



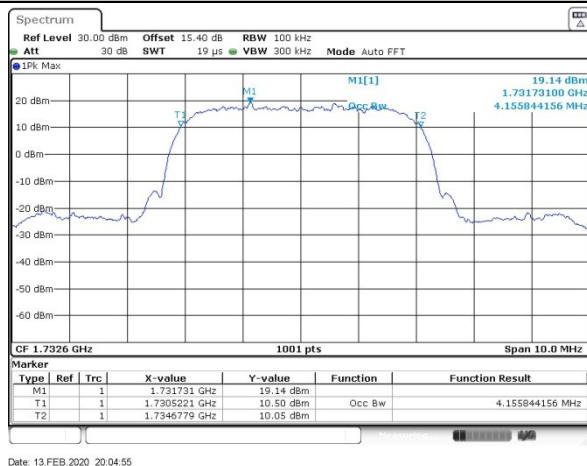


WCDMA Band IV (RMC 12.2Kbps)

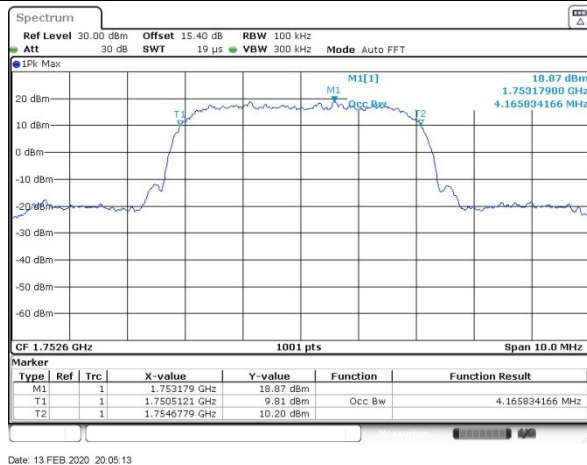
Lowest Channel



Middle Channel



Highest Channel







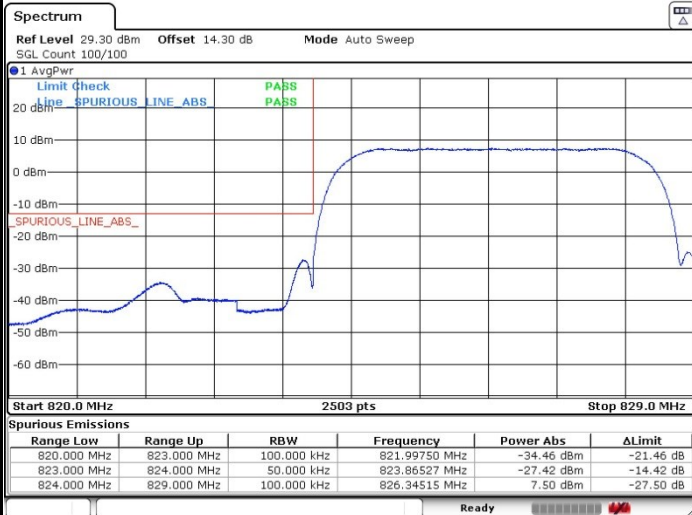
## **Conducted Band Edge**



## WCDMA Band V (RMC 12.2Kbps)

## Lowest Band Edge

## Highest Band Edge



Date: 13.FEB.2020 19:50:13



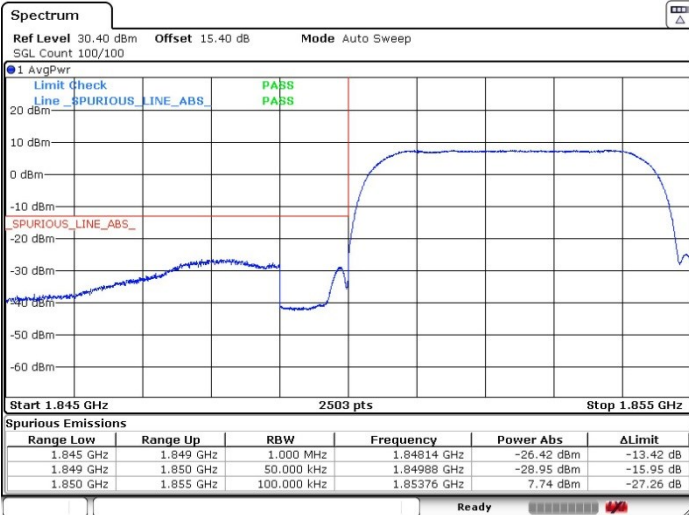
Date: 13.FEB.2020 19:51:44



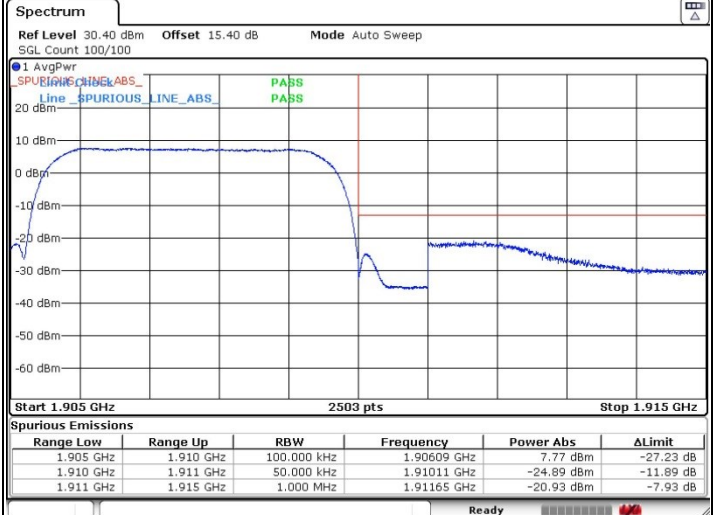
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge

## Highest Band Edge



Date: 13.FEB.2020 20:00:06



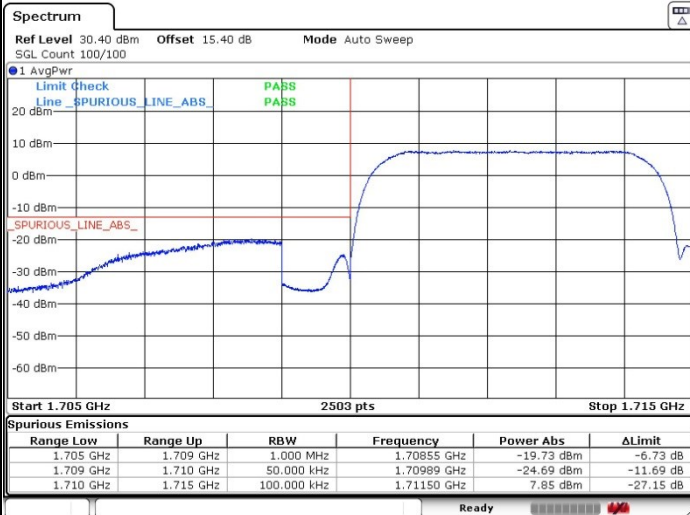
Date: 13.FEB.2020 20:01:06



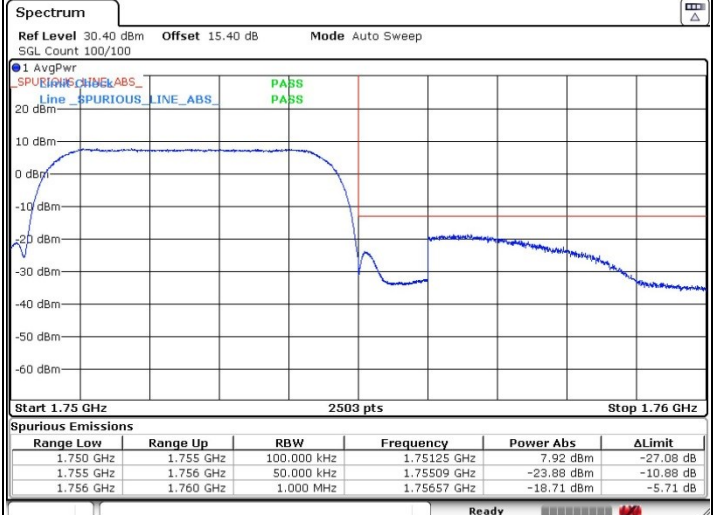
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge

## Highest Band Edge



Date: 13.FEB.2020 20:07:16



Date: 13.FEB.2020 20:08:45

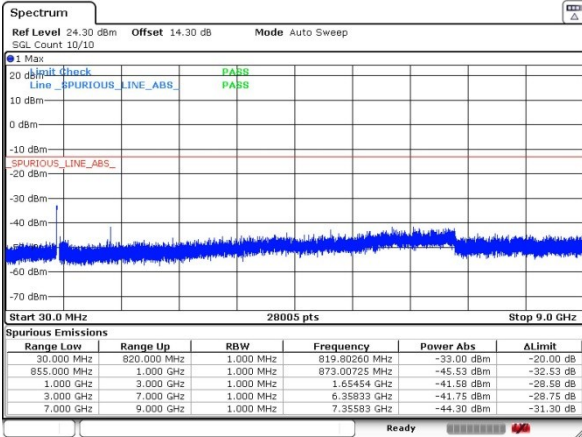


## **Conducted Spurious Emission**



## WCDMA Band V (RMC 12.2Kbps)

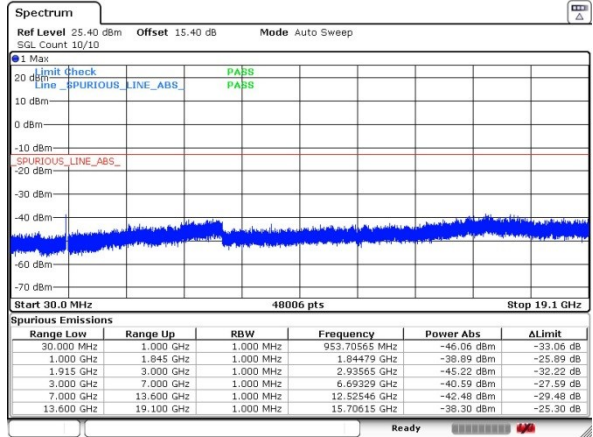
## Lowest Channel



Date: 13.FEB.2020 19:52:08

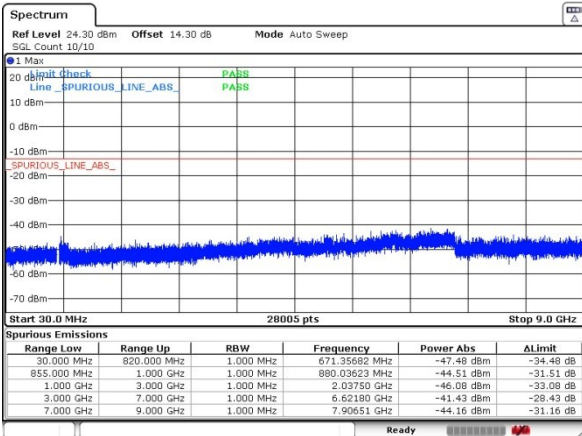
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



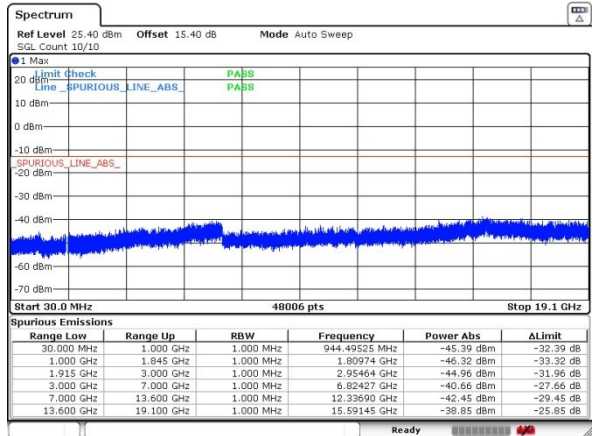
Date: 13.FEB.2020 20:01:39

## Middle Channel



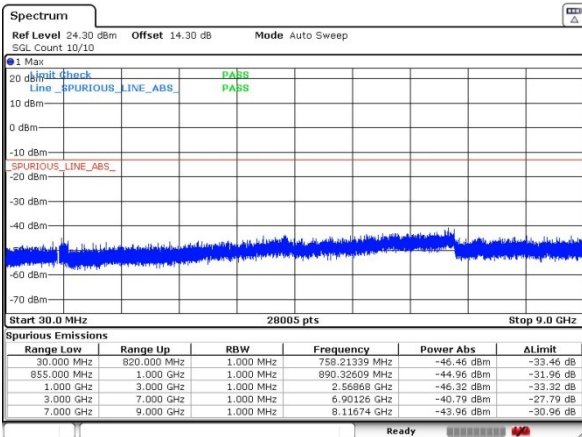
Date: 13.FEB.2020 19:52:28

## Middle Channel



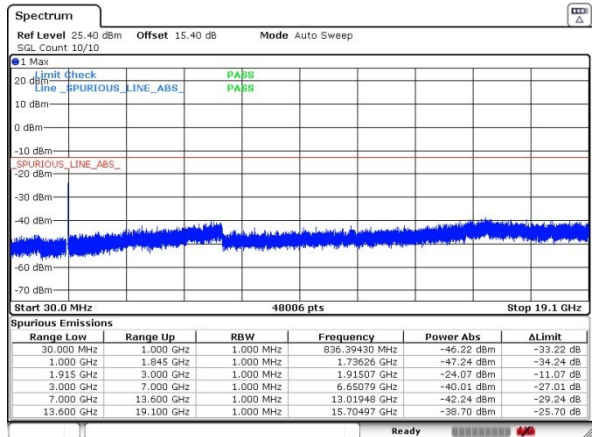
Date: 13.FEB.2020 20:02:10

## Highest Channel



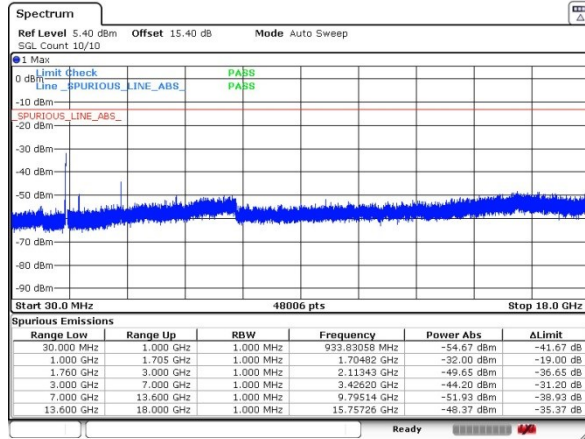
Date: 13.FEB.2020 19:52:45

## Highest Channel

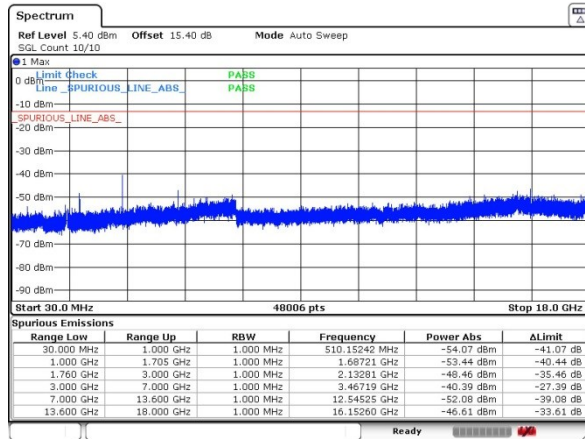


Date: 13.FEB.2020 20:02:34

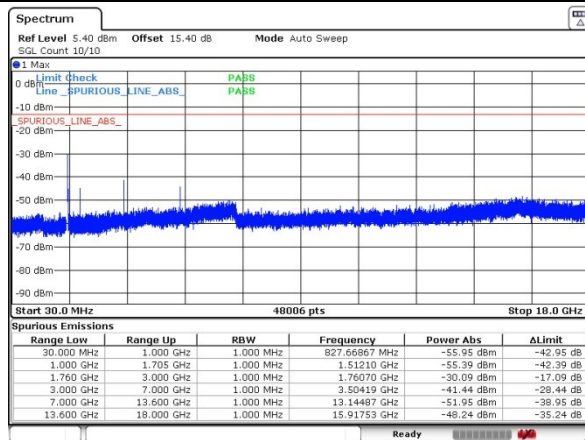


**WCDMA Band IV (RMC 12.2Kbps)****Lowest Channel**

Date: 13.FEB.2020 20:09:29

**Middle Channel**

Date: 13.FEB.2020 20:09:52

**Highest Channel**

Date: 13.FEB.2020 20:10:27

**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    | 0.0036                         | PASS            |
| 40               | Normal Voltage    | 0.0096                         |                 |
| 30               | Normal Voltage    | 0.0012                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0024                         |                 |
| 0                | Normal Voltage    | 0.0167                         |                 |
| -10              | Normal Voltage    | 0.0179                         |                 |
| -20              | Normal Voltage    | 0.0024                         |                 |
| -30              | Normal Voltage    | 0.0036                         |                 |
| 20               | Maximum Voltage   | 0.0131                         |                 |
| 20               | Normal Voltage    | 0.0096                         |                 |
| 20               | Battery End Point | 0.0060                         |                 |

| 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    | 0.0011                          | PASS             |
| 40               | Normal Voltage    | 0.0021                          |                  |
| 30               | Normal Voltage    | 0.0032                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0069                          |                  |
| 0                | Normal Voltage    | 0.0016                          |                  |
| -10              | Normal Voltage    | 0.0074                          |                  |
| -20              | Normal Voltage    | 0.0005                          |                  |
| -30              | Normal Voltage    | 0.0011                          |                  |
| 20               | Maximum Voltage   | 0.0064                          |                  |
| 20               | Normal Voltage    | 0.0027                          |                  |
| 20               | Battery End Point | 0.0059                          |                  |



| 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    | 0.0098                          | PASS             |
| 40               | Normal Voltage    | 0.0085                          |                  |
| 30               | Normal Voltage    | 0.0085                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0061                          |                  |
| 0                | Normal Voltage    | 0.0110                          |                  |
| -10              | Normal Voltage    | 0.0134                          |                  |
| -20              | Normal Voltage    | 0.0158                          |                  |
| -30              | Normal Voltage    | 0.0183                          |                  |
| 20               | Maximum Voltage   | 0.0049                          |                  |
| 20               | Normal Voltage    | 0.0207                          |                  |
| 20               | Battery End Point | 0.0110                          |                  |

**Note:**

1. Normal Voltage = 4V ; Battery End Point (BEP) =3.7V. ; Maximum Voltage =4.3V
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

| GSM850 (GSM) |                      |                |                  |                         |                          |                            |                             |                       |
|--------------|----------------------|----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel      | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle       | 1672                 | -43.30         | -13              | -30.30                  | -50.27                   | 1.58                       | 10.70                       | H                     |
|              | 2510                 | -45.98         | -13              | -32.98                  | -54.23                   | 2.102                      | 12.50                       | H                     |
|              | 3348                 | -63.81         | -13              | -50.81                  | -72.70                   | 2.856                      | 13.90                       | H                     |
|              | 1672                 | -40.06         | -13              | -27.06                  | -47.03                   | 1.58                       | 10.70                       | V                     |
|              | 2510                 | -44.88         | -13              | -31.88                  | -53.13                   | 2.10                       | 12.50                       | V                     |
|              | 3348                 | -63.29         | -13              | -50.29                  | -72.18                   | 2.86                       | 13.90                       | V                     |

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

| GSM850 (EDGE class 8) |                      |                |                  |                         |                          |                            |                             |                       |
|-----------------------|----------------------|----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel               | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                | 1672                 | -44.70         | -13              | -31.70                  | -51.67                   | 1.58                       | 10.70                       | H                     |
|                       | 2510                 | -45.51         | -13              | -32.51                  | -53.76                   | 2.102                      | 12.50                       | H                     |
|                       | 3348                 | -63.24         | -13              | -50.24                  | -72.13                   | 2.856                      | 13.90                       | H                     |
|                       | 1672                 | -40.53         | -13              | -27.53                  | -47.50                   | 1.58                       | 10.70                       | V                     |
|                       | 2510                 | -50.51         | -13              | -37.51                  | -58.76                   | 2.10                       | 12.50                       | V                     |
|                       | 3348                 | -62.88         | -13              | -49.88                  | -71.77                   | 2.86                       | 13.90                       | V                     |

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

| GSM1900 (GSM) |                      |                 |                  |                         |                          |                            |                             |                       |
|---------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel       | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle        | 3759                 | -57.60          | -13              | -44.60                  | -69.86                   | 2.641                      | 14.90                       | H                     |
|               | 5640                 | -49.05          | -13              | -36.05                  | -60.91                   | 2.94                       | 14.80                       | H                     |
|               | 7524                 | -51.05          | -13              | -38.05                  | -60.82                   | 3.39                       | 13.16                       | H                     |
|               | 3759                 | -57.16          | -13              | -44.16                  | -69.42                   | 2.64                       | 14.90                       | V                     |
|               | 5640                 | -54.93          | -13              | -41.93                  | -66.79                   | 2.94                       | 14.80                       | V                     |
|               | 7524                 | -50.38          | -13              | -37.38                  | -60.15                   | 3.39                       | 13.16                       | V                     |

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

| GSM1900 (EDGE class 8) |                      |                 |                  |                         |                          |                            |                             |                       |
|------------------------|----------------------|-----------------|------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                 | 3759                 | -57.28          | -13              | -44.28                  | -69.54                   | 2.641                      | 14.90                       | H                     |
|                        | 5640                 | -48.40          | -13              | -35.40                  | -60.26                   | 2.94                       | 14.80                       | H                     |
|                        | 7524                 | -50.88          | -13              | -37.88                  | -60.65                   | 3.39                       | 13.16                       | H                     |
|                        | 3759                 | -56.98          | -13              | -43.98                  | -69.24                   | 2.64                       | 14.90                       | V                     |
|                        | 5640                 | -55.01          | -13              | -42.01                  | -66.87                   | 2.94                       | 14.80                       | V                     |
|                        | 7524                 | -50.14          | -13              | -37.14                  | -59.91                   | 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<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                     | 1672                 | -65.71         | -13              | -52.71                  | -72.68                   | 1.58                       | 10.70                       | H                     |
|                            | 2509                 | -62.75         | -13              | -49.75                  | -71.00                   | 2.102                      | 12.50                       | H                     |
|                            | 3348                 | -63.75         | -13              | -50.75                  | -72.64                   | 2.856                      | 13.90                       | H                     |
|                            | 1672                 | -65.77         | -13              | -52.77                  | -72.74                   | 1.58                       | 10.70                       | V                     |
|                            | 2509                 | -63.14         | -13              | -50.14                  | -71.39                   | 2.10                       | 12.50                       | V                     |
|                            | 3348                 | -63.57         | -13              | -50.57                  | -72.46                   | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 3759                 | -57.43          | -13              | -44.43                  | -69.69                   | 2.641                      | 14.90                       | H                     |
|                             | 5640                 | -55.34          | -13              | -42.34                  | -67.20                   | 2.94                       | 14.80                       | H                     |
|                             | 7520                 | -50.62          | -13              | -37.62                  | -60.39                   | 3.39                       | 13.16                       | H                     |
|                             | 3759                 | -57.16          | -13              | -44.16                  | -69.42                   | 2.64                       | 14.90                       | V                     |
|                             | 5640                 | -55.13          | -13              | -42.13                  | -66.99                   | 2.94                       | 14.80                       | V                     |
|                             | 7520                 | -50.11          | -13              | -37.11                  | -59.88                   | 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<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                      | 3465                 | -60.80          | -13              | -47.80                  | -71.54                   | 2.604                      | 13.34                       | H                     |
|                             | 5197.8               | -56.73          | -13              | -43.73                  | -67.24                   | 3.011                      | 13.52                       | H                     |
|                             | 6936                 | -52.67          | -13              | -39.67                  | -62.87                   | 3.271                      | 13.47                       | H                     |
|                             | 3465                 | -60.74          | -13              | -47.74                  | -71.48                   | 2.604                      | 13.34                       | V                     |
|                             | 5199                 | -56.38          | -13              | -43.38                  | -66.89                   | 3.011                      | 13.52                       | V                     |
|                             | 6936                 | -52.31          | -13              | -39.31                  | -62.51                   | 3.271                      | 13.47                       | V                     |

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