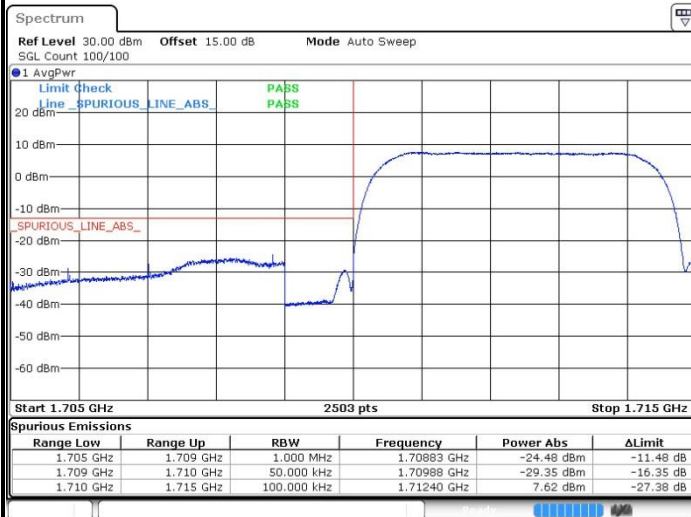


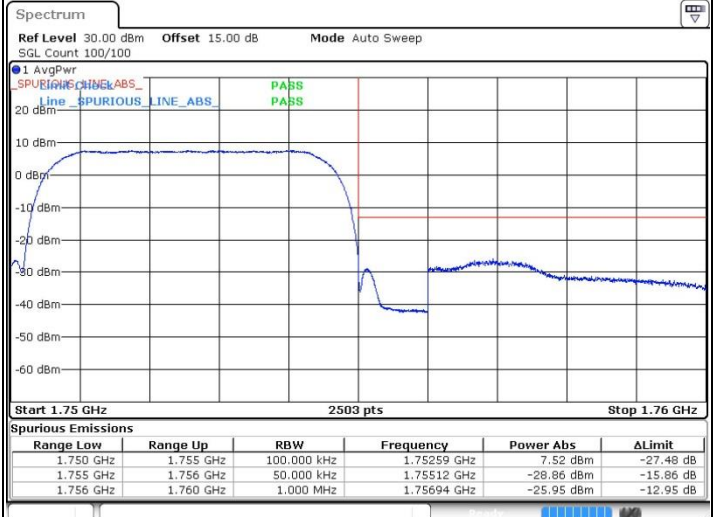


## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge

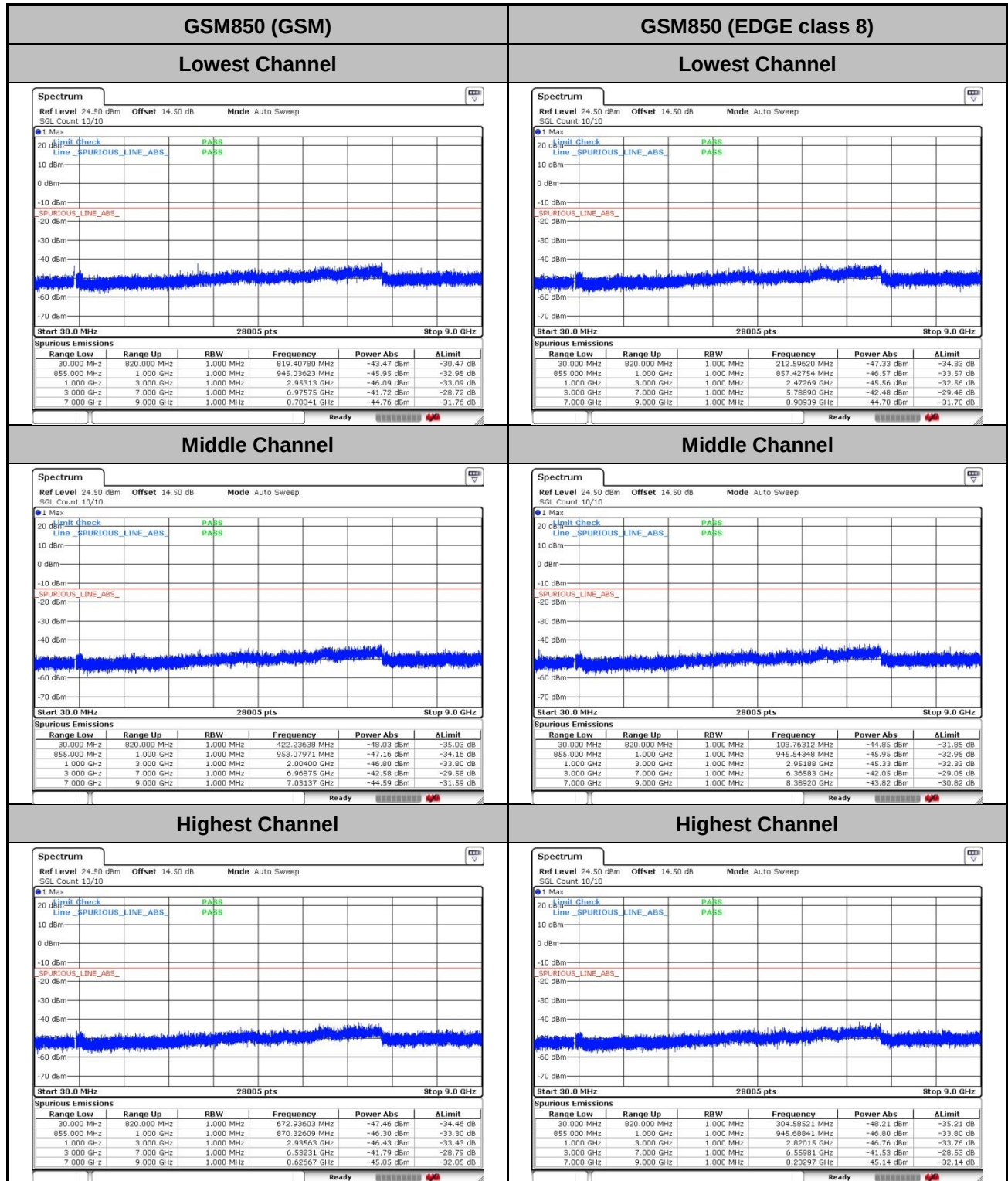


## Highest Band Edge





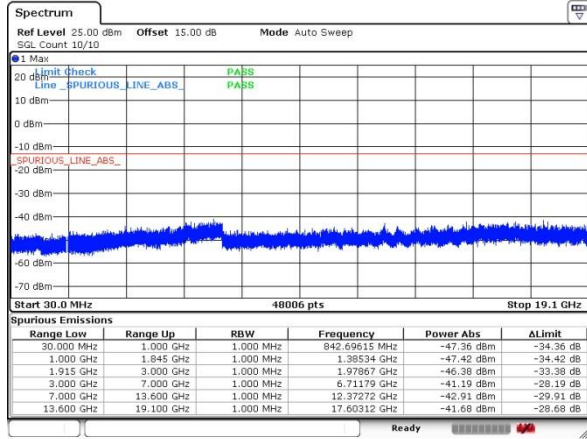
## Conducted Spurious Emission





## GSM1900 (GSM)

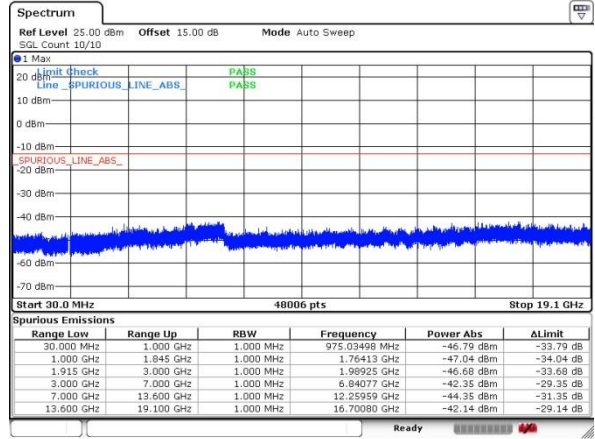
## Lowest Channel



Date: 20 DEC 2019 22:28:15

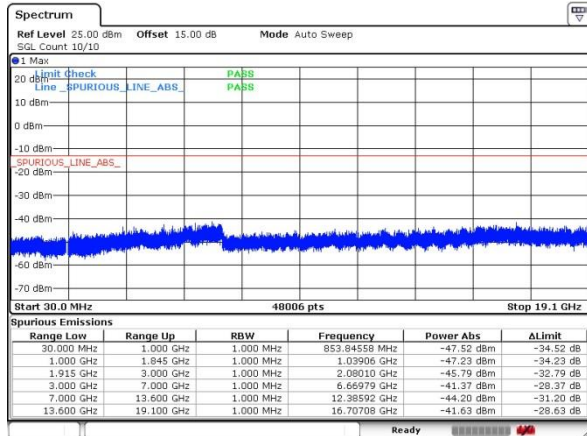
## GSM1900 (EDGE class 8)

## Lowest Channel



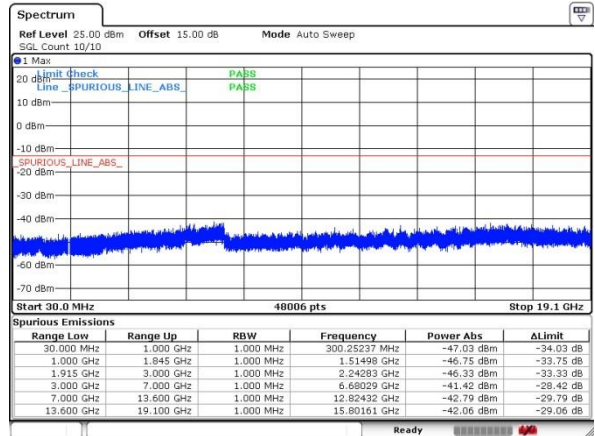
Date: 20 DEC 2019 23:11:33

## Middle Channel



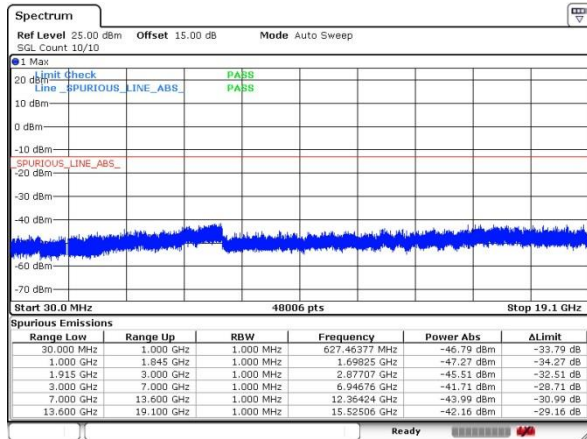
Date: 20 DEC 2019 22:28:55

## Middle Channel



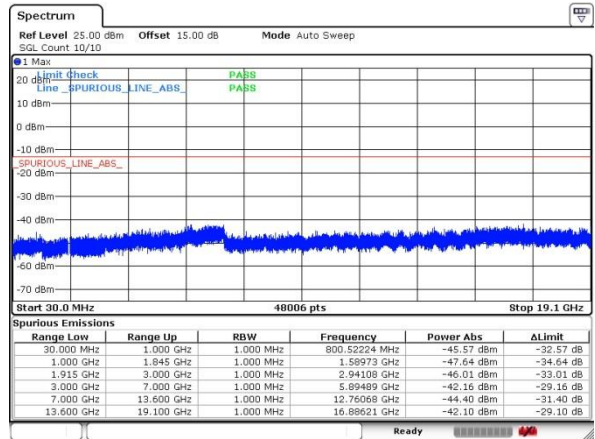
Date: 20 DEC 2019 23:12:02

## Highest Channel



Date: 20 DEC 2019 22:30:08

## Highest Channel

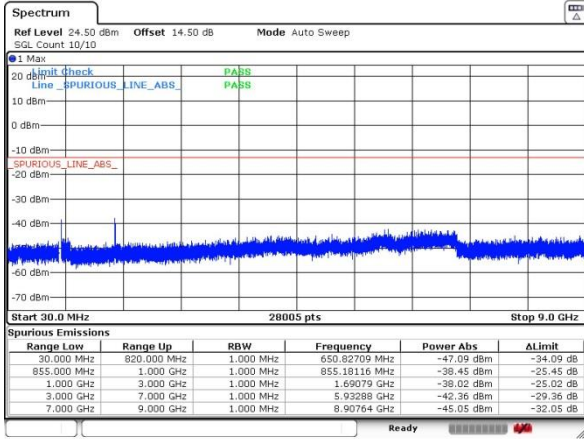


Date: 20 DEC 2019 23:12:14



## WCDMA Band V (RMC 12.2Kbps)

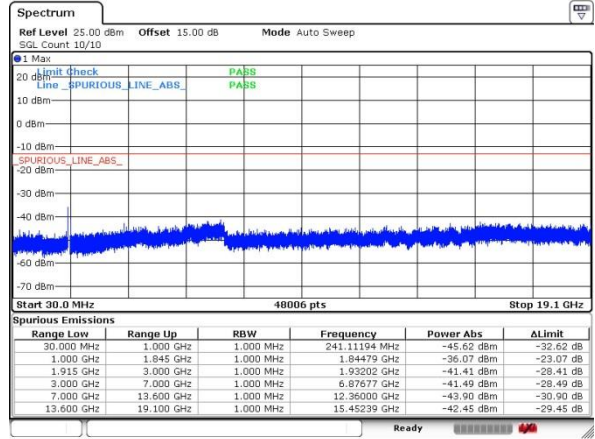
## Lowest Channel



Date: 21 DEC 2019 00:01:02

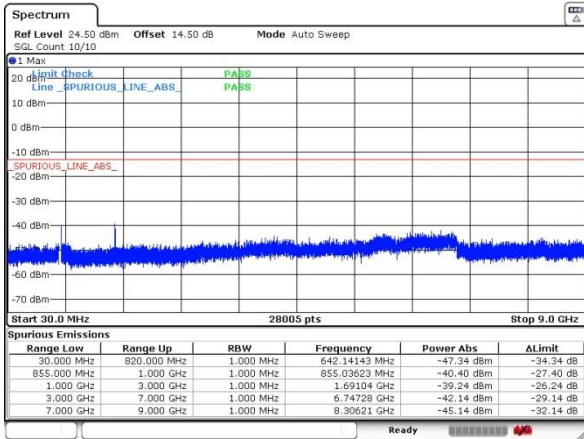
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



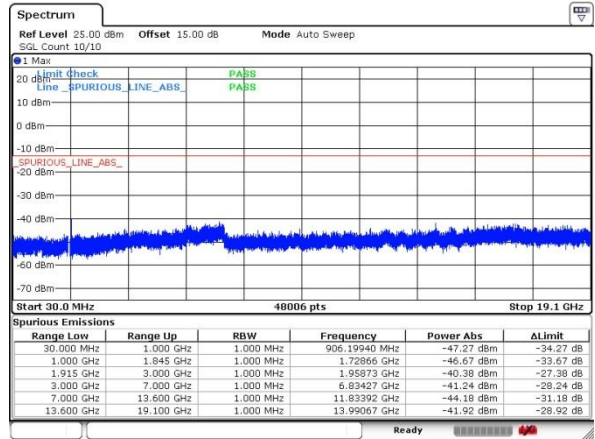
Date: 20 DEC 2019 23:32:57

## Middle Channel



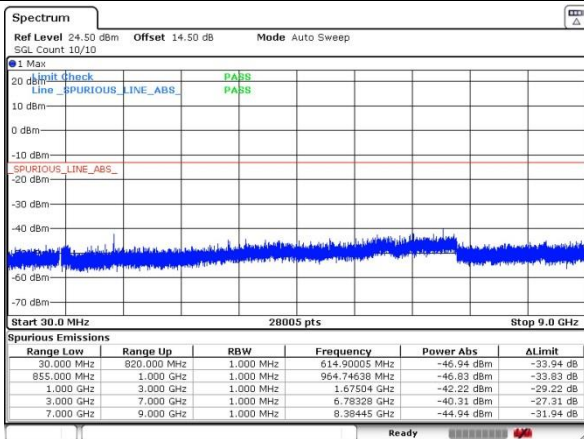
Date: 21 DEC 2019 00:01:24

## Middle Channel



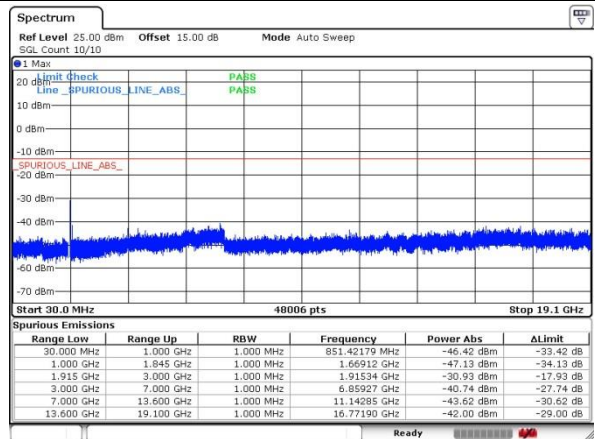
Date: 20 DEC 2019 23:33:21

## Highest Channel



Date: 21 DEC 2019 00:01:48

## Highest Channel

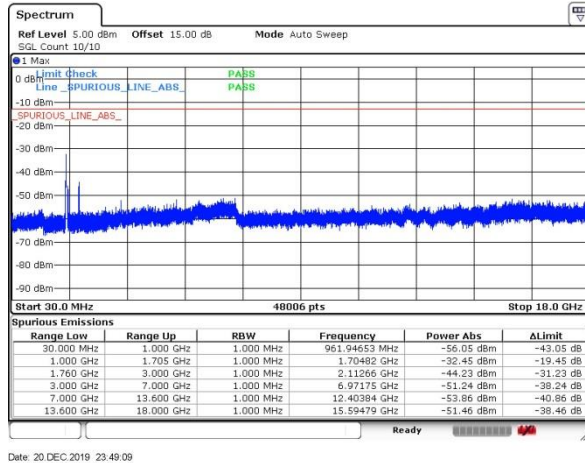


Date: 20 DEC 2019 23:33:55



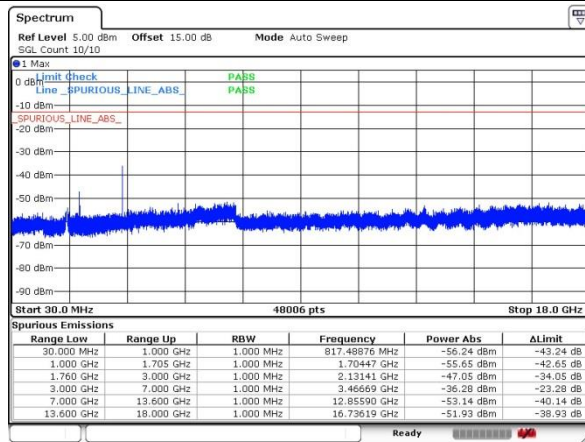
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Channel



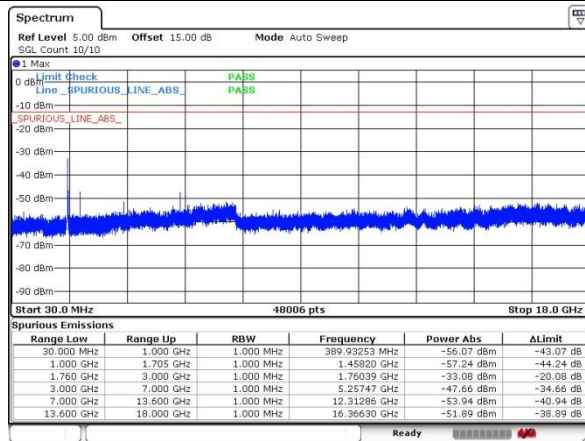
Date: 20 DEC 2019 23:49:09

## Middle Channel



Date: 20 DEC 2019 23:49:36

## Highest Channel



Date: 20 DEC 2019 23:49:54

**Frequency Stability**

| Test Conditions  | Middle Channel    | GSM850<br>(GSM) | GSM850<br>(EDGE class 8) | Limit<br>2.5ppm |
|------------------|-------------------|-----------------|--------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm) |                          | Result          |
| 50               | Normal Voltage    | 0.0120          | 0.0251                   | PASS            |
| 40               | Normal Voltage    | 0.0072          | 0.0239                   |                 |
| 30               | Normal Voltage    | 0.0132          | 0.0084                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0167          | 0.0167                   |                 |
| 0                | Normal Voltage    | 0.0072          | 0.0012                   |                 |
| -10              | Normal Voltage    | 0.0203          | 0.0227                   |                 |
| -20              | Normal Voltage    | 0.0227          | 0.0060                   |                 |
| -30              | Normal Voltage    | 0.0143          | 0.0108                   |                 |
| 20               | Maximum Voltage   | 0.0096          | 0.0275                   |                 |
| 20               | Normal Voltage    | 0.0120          | 0.0203                   |                 |
| 20               | Battery End Point | 0.0191          | 0.0036                   |                 |

**Note:** Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V



| Test Conditions  | Middle Channel    | GSM1900<br>(GSM) | GSM1900<br>(EDGE class 8) | Limit<br>Note 2. |
|------------------|-------------------|------------------|---------------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)  |                           | Result           |
| 50               | Normal Voltage    | 0.0011           | 0.0181                    | PASS             |
| 40               | Normal Voltage    | 0.0005           | 0.0133                    |                  |
| 30               | Normal Voltage    | 0.0037           | 0.0170                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000           | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0133           | 0.0106                    |                  |
| 0                | Normal Voltage    | 0.0106           | 0.0149                    |                  |
| -10              | Normal Voltage    | 0.0090           | 0.0170                    |                  |
| -20              | Normal Voltage    | 0.0027           | 0.0122                    |                  |
| -30              | Normal Voltage    | 0.0000           | 0.0117                    |                  |
| 20               | Maximum Voltage   | 0.0069           | 0.0117                    |                  |
| 20               | Normal Voltage    | 0.0016           | 0.0138                    |                  |
| 20               | Battery End Point | 0.0128           | 0.0027                    |                  |

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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 V<br>(RMC 12.2KbpsRMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                            | Result          |
| 50               | Normal Voltage    | 0.0060                                     | PASS            |
| 40               | Normal Voltage    | 0.0036                                     |                 |
| 30               | Normal Voltage    | 0.0120                                     |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                                     |                 |
| 10               | Normal Voltage    | 0.0000                                     |                 |
| 0                | Normal Voltage    | 0.0167                                     |                 |
| -10              | Normal Voltage    | 0.0000                                     |                 |
| -20              | Normal Voltage    | 0.0131                                     |                 |
| -30              | Normal Voltage    | 0.0143                                     |                 |
| 20               | Maximum Voltage   | 0.0299                                     |                 |
| 20               | Normal Voltage    | 0.0036                                     |                 |
| 20               | Battery End Point | 0.0143                                     |                 |

**Note:** Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V



| 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    | 0.0027                          | PASS             |
| 40               | Normal Voltage    | 0.0074                          |                  |
| 30               | Normal Voltage    | 0.0064                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0053                          |                  |
| 0                | Normal Voltage    | 0.0074                          |                  |
| -10              | Normal Voltage    | 0.0005                          |                  |
| -20              | Normal Voltage    | 0.0085                          |                  |
| -30              | Normal Voltage    | 0.0021                          |                  |
| 20               | Maximum Voltage   | 0.0011                          |                  |
| 20               | Normal Voltage    | 0.0048                          |                  |
| 20               | Battery End Point | 0.0000                          |                  |

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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    | 0.0061                          | PASS             |
| 40               | Normal Voltage    | 0.0171                          |                  |
| 30               | Normal Voltage    | 0.0110                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0183                          |                  |
| 0                | Normal Voltage    | 0.0195                          |                  |
| -10              | Normal Voltage    | 0.0183                          |                  |
| -20              | Normal Voltage    | 0.0073                          |                  |
| -30              | Normal Voltage    | 0.0158                          |                  |
| 20               | Maximum Voltage   | 0.0012                          |                  |
| 20               | Normal Voltage    | 0.0024                          |                  |
| 20               | Battery End Point | 0.0207                          |                  |

**Note:**

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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                 | -55.77         | -13              | -42.77                  | -62.74                   | 1.58                       | 10.70                       | H                     |
|              | 2510                 | -51.66         | -13              | -38.66                  | -59.91                   | 2.102                      | 12.50                       | H                     |
|              | 3348                 | -59.39         | -13              | -46.39                  | -68.28                   | 2.856                      | 13.90                       | H                     |
|              | 4182                 | -56.61         | -13              | -43.61                  | -65.07                   | 2.689                      | 13.30                       | H                     |
|              | 1672                 | -59.52         | -13              | -46.52                  | -66.49                   | 1.58                       | 10.70                       | V                     |
|              | 2510                 | -53.22         | -13              | -40.22                  | -61.47                   | 2.10                       | 12.50                       | V                     |
|              | 3348                 | -61.10         | -13              | -48.10                  | -69.99                   | 2.86                       | 13.90                       | V                     |
|              | 4182                 | -56.58         | -13              | -43.58                  | -65.04                   | 2.69                       | 13.30                       | 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                 | -55.57         | -13              | -42.57                  | -62.54                   | 1.58                       | 10.70                       | H                     |
|                       | 2510                 | -51.82         | -13              | -38.82                  | -60.07                   | 2.102                      | 12.50                       | H                     |
|                       | 3348                 | -61.48         | -13              | -48.48                  | -70.37                   | 2.856                      | 13.90                       | H                     |
|                       | 4182                 | -56.84         | -13              | -43.84                  | -65.30                   | 2.689                      | 13.30                       | H                     |
|                       | 1672                 | -60.07         | -13              | -47.07                  | -67.04                   | 1.58                       | 10.70                       | V                     |
|                       | 2510                 | -52.37         | -13              | -39.37                  | -60.62                   | 2.10                       | 12.50                       | V                     |
|                       | 3348                 | -61.32         | -13              | -48.32                  | -70.21                   | 2.86                       | 13.90                       | V                     |
|                       | 4182                 | -56.82         | -13              | -43.82                  | -65.28                   | 2.69                       | 13.30                       | 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                 | -38.74          | -13              | -25.74                  | -51.00                   | 2.641                      | 14.90                       | H                     |
|               | 5640                 | -44.73          | -13              | -31.73                  | -56.59                   | 2.94                       | 14.80                       | H                     |
|               | 7524                 | -50.70          | -13              | -37.70                  | -60.47                   | 3.39                       | 13.16                       | H                     |
|               | 9396                 | -44.80          | -13              | -31.80                  | -55.28                   | 4.00                       | 14.48                       | H                     |
|               | 11280                | -45.48          | -13              | -32.48                  | -54.99                   | 4.23                       | 13.74                       | H                     |
|               | 13164                | -34.04          | -13              | -21.04                  | -43.88                   | 4.49                       | 14.32                       | H                     |
|               | 3759                 | -42.92          | -13              | -29.92                  | -55.18                   | 2.64                       | 14.90                       | V                     |
|               | 5640                 | -44.38          | -13              | -31.38                  | -56.24                   | 2.94                       | 14.80                       | V                     |
|               | 7524                 | -49.89          | -13              | -36.89                  | -59.66                   | 3.39                       | 13.16                       | V                     |
|               | 9396                 | -45.86          | -13              | -32.86                  | -56.34                   | 4.00                       | 14.48                       | V                     |
|               | 11280                | -44.41          | -13              | -31.41                  | -53.92                   | 4.23                       | 13.74                       | V                     |
|               | 13164                | -33.64          | -13              | -20.64                  | -43.48                   | 4.49                       | 14.32                       | 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                 | -38.56          | -13              | -25.56                  | -50.82                   | 2.641                      | 14.90                       | H                     |
|                        | 5640                 | -44.70          | -13              | -31.70                  | -56.56                   | 2.94                       | 14.80                       | H                     |
|                        | 7524                 | -50.92          | -13              | -37.92                  | -60.69                   | 3.39                       | 13.16                       | H                     |
|                        | 9396                 | -45.43          | -13              | -32.43                  | -55.91                   | 4.00                       | 14.48                       | H                     |
|                        | 11280                | -45.57          | -13              | -32.57                  | -55.08                   | 4.23                       | 13.74                       | H                     |
|                        | 13164                | -33.35          | -13              | -20.35                  | -43.19                   | 4.49                       | 14.32                       | H                     |
|                        | 3759                 | -43.27          | -13              | -30.27                  | -55.53                   | 2.64                       | 14.90                       | V                     |
|                        | 5640                 | -43.35          | -13              | -30.35                  | -55.21                   | 2.94                       | 14.80                       | V                     |
|                        | 7524                 | -50.43          | -13              | -37.43                  | -60.20                   | 3.39                       | 13.16                       | V                     |
|                        | 9396                 | -46.68          | -13              | -33.68                  | -57.16                   | 4.00                       | 14.48                       | V                     |
|                        | 11280                | -44.92          | -13              | -31.92                  | -54.43                   | 4.23                       | 13.74                       | V                     |
|                        | 13164                | -35.48          | -13              | -22.48                  | -45.32                   | 4.49                       | 14.32                       | 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              | -67.47      | -13           | -54.47            | -74.44             | 1.58                 | 10.70                 | H                  |
|                            | 2510              | -63.48      | -13           | -50.48            | -71.73             | 2.102                | 12.50                 | H                  |
|                            | 3348              | -64.01      | -13           | -51.01            | -72.90             | 2.856                | 13.90                 | H                  |
|                            | 1672              | -68.12      | -13           | -55.12            | -75.09             | 1.58                 | 10.70                 | V                  |
|                            | 2510              | -63.61      | -13           | -50.61            | -71.86             | 2.10                 | 12.50                 | V                  |
|                            | 3348              | -64.04      | -13           | -51.04            | -72.93             | 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                      | 3759              | -52.49       | -13           | -39.49            | -64.75             | 2.641                | 14.90                 | H                  |
|                             | 5640              | -55.50       | -13           | -42.50            | -67.36             | 2.94                 | 14.80                 | H                  |
|                             | 7524              | -50.79       | -13           | -37.79            | -60.56             | 3.39                 | 13.16                 | H                  |
|                             | 3759              | -53.94       | -13           | -40.94            | -66.20             | 2.64                 | 14.90                 | V                  |
|                             | 5640              | -55.08       | -13           | -42.08            | -66.94             | 2.94                 | 14.80                 | V                  |
|                             | 7524              | -50.29       | -13           | -37.29            | -60.06             | 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              | -57.40       | -13           | -44.40            | -68.14             | 2.604                | 13.34                 | H                  |
|                             | 5199              | -56.84       | -13           | -43.84            | -67.35             | 3.011                | 13.52                 | H                  |
|                             | 6936              | -53.11       | -13           | -40.11            | -63.31             | 3.271                | 13.47                 | H                  |
|                             | 3465              | -57.84       | -13           | -44.84            | -68.58             | 2.604                | 13.34                 | V                  |
|                             | 5199              | -56.93       | -13           | -43.93            | -67.44             | 3.011                | 13.52                 | V                  |
|                             | 6936              | -52.71       | -13           | -39.71            | -62.91             | 3.271                | 13.47                 | V                  |

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