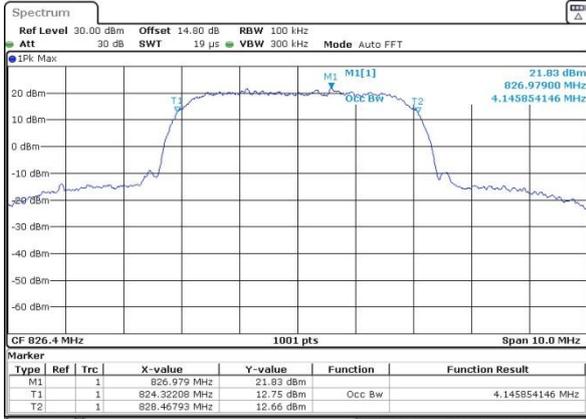




WCDMA Band V (RMC 12.2Kbps)

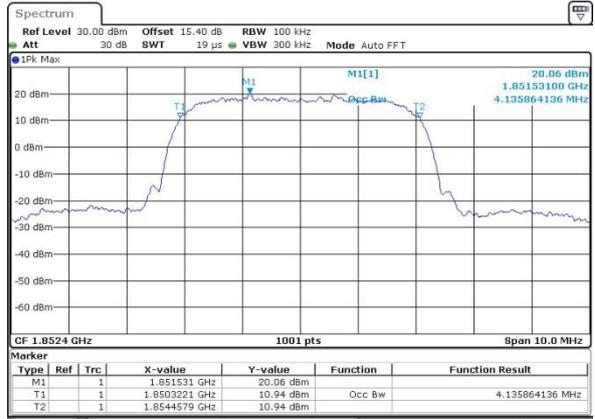
Lowest Channel



Date: 4.JAN.2022 08:02:32

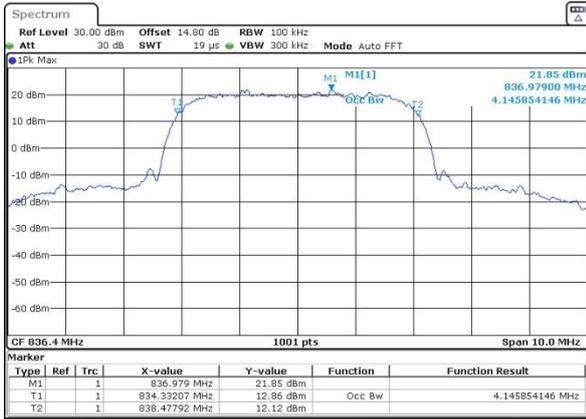
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



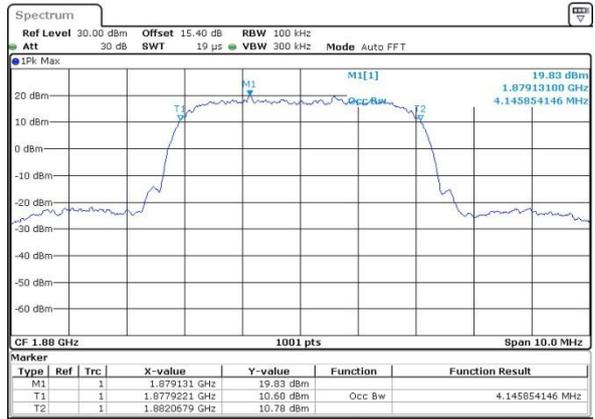
Date: 29.JAN.2022 05:22:58

Middle Channel



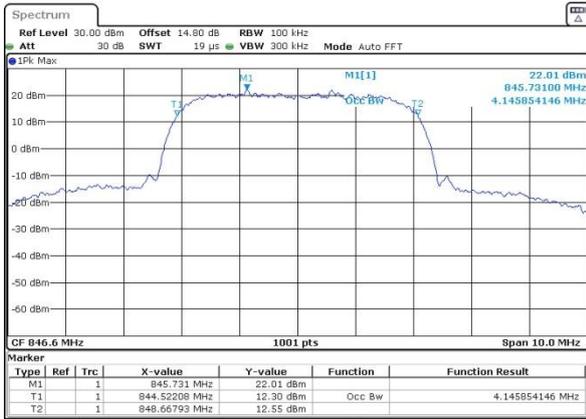
Date: 4.JAN.2022 08:03:01

Middle Channel



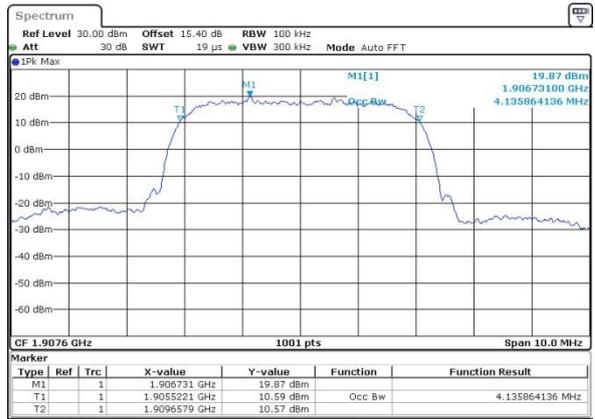
Date: 29.JAN.2022 05:24:11

Highest Channel



Date: 4.JAN.2022 08:03:25

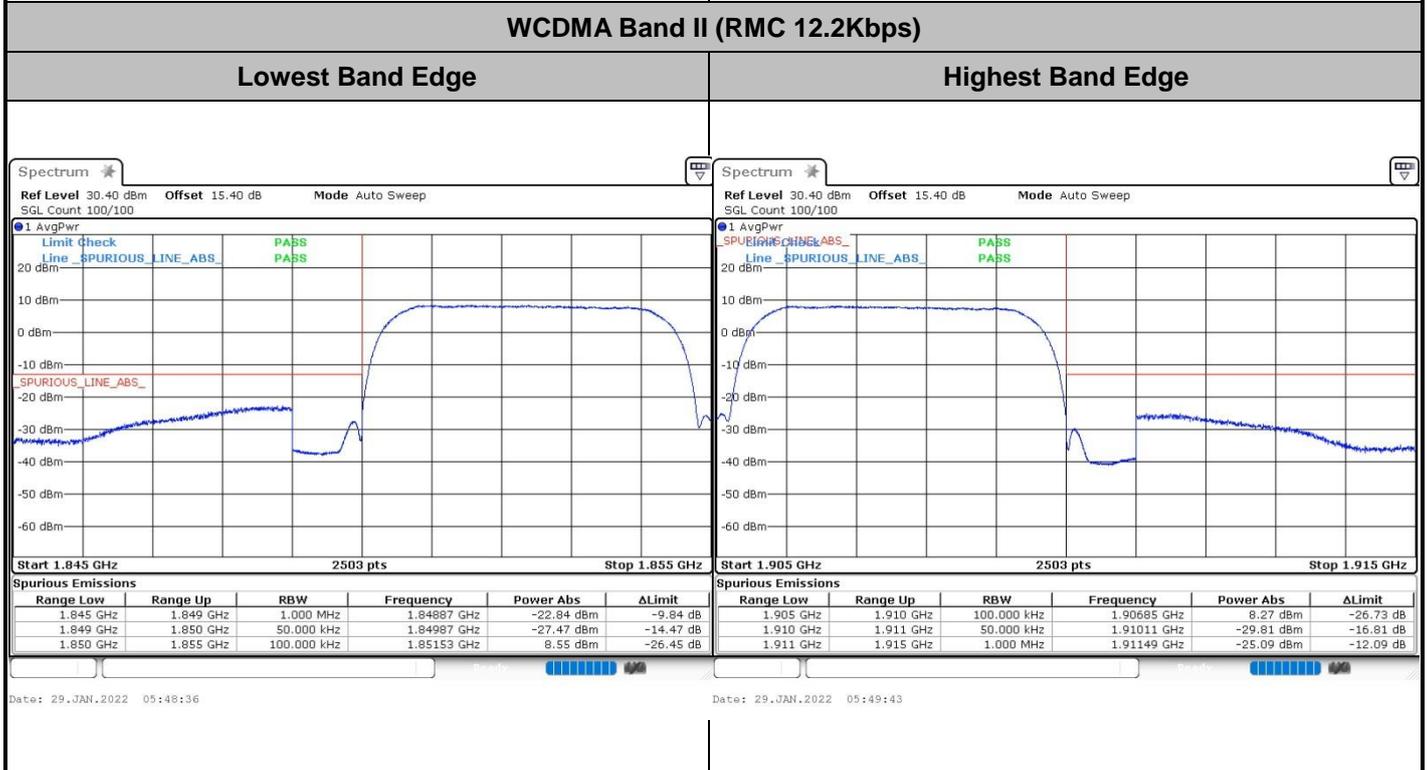
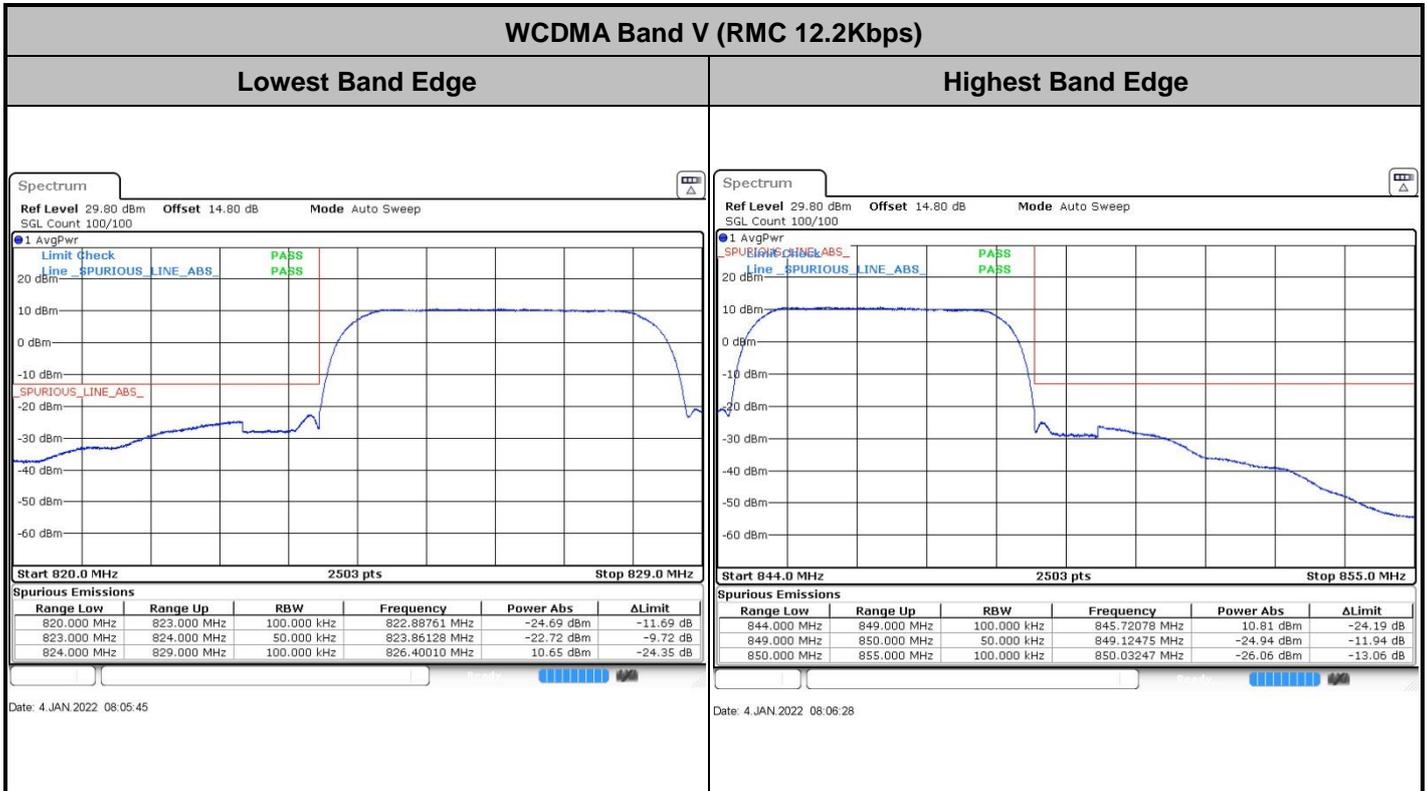
Highest Channel



Date: 29.JAN.2022 05:24:48

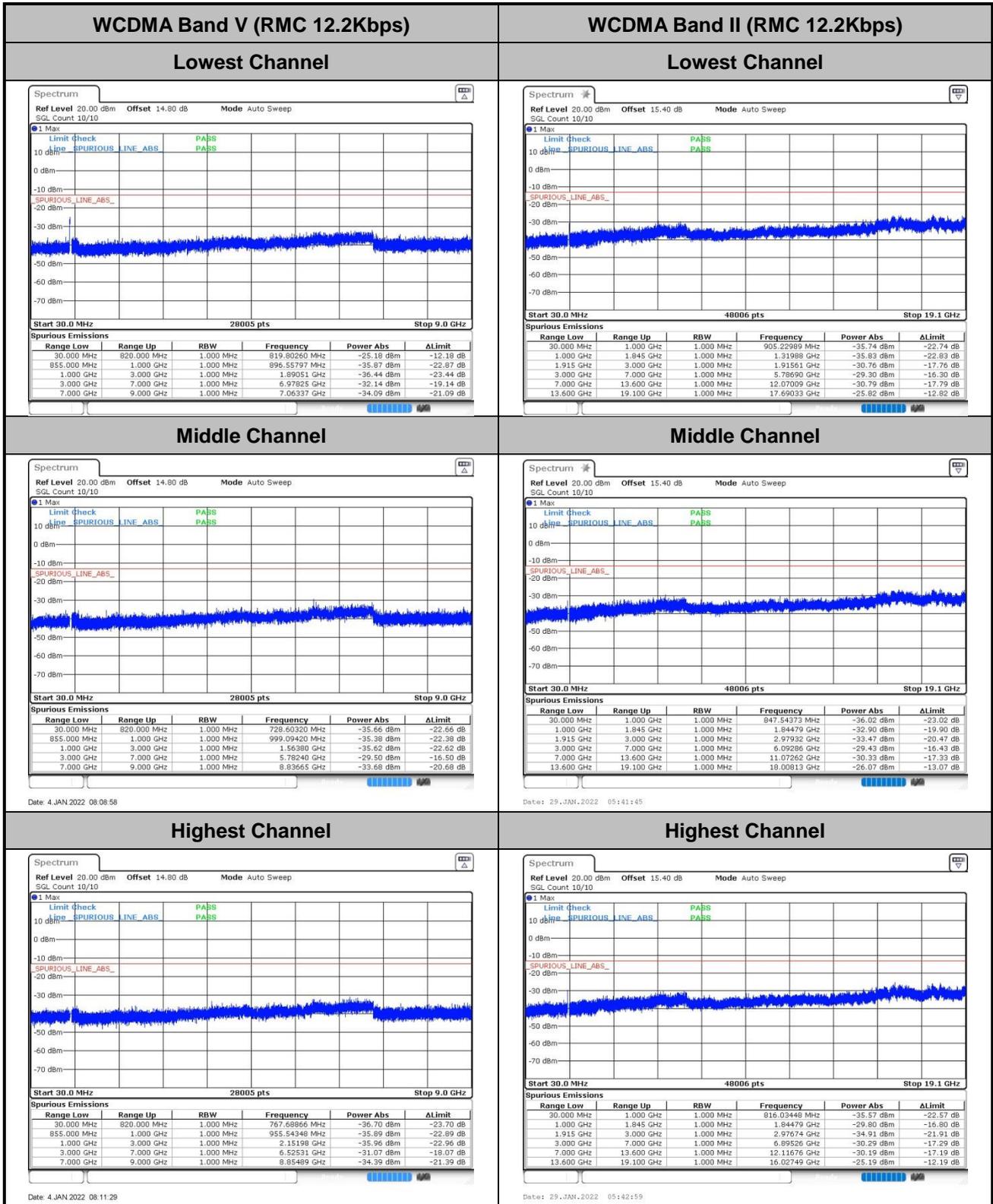


# Conducted Band Edge





# Conducted Spurious Emission





### 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    | 0.0099                         | PASS            |
| 40               | Normal Voltage    | 0.0205                         |                 |
| 30               | Normal Voltage    | 0.0431                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0208                         |                 |
| 0                | Normal Voltage    | 0.0143                         |                 |
| -10              | Normal Voltage    | 0.0062                         |                 |
| -20              | Normal Voltage    | 0.0223                         |                 |
| -30              | Normal Voltage    | 0.0236                         |                 |
| 20               | Maximum Voltage   | 0.0011                         |                 |
| 20               | Normal Voltage    | 0.0224                         |                 |
| 20               | Battery End Point | 0.0263                         |                 |

Note: Normal Voltage = 3.87V ; Battery End Point (BEP) =3.6V ; Maximum Voltage =4.45V



| Test Conditions  | Middle Channel    | WCDMA Band II (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|------------------------------|---------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)              | Result        |
| 50               | Normal Voltage    | 0.0016                       | PASS          |
| 40               | Normal Voltage    | 0.0032                       |               |
| 30               | Normal Voltage    | 0.0015                       |               |
| 20(Ref.)         | Normal Voltage    | 0.0000                       |               |
| 10               | Normal Voltage    | 0.0038                       |               |
| 0                | Normal Voltage    | 0.0032                       |               |
| -10              | Normal Voltage    | 0.0026                       |               |
| -20              | Normal Voltage    | 0.0014                       |               |
| -30              | Normal Voltage    | 0.0019                       |               |
| 20               | Maximum Voltage   | 0.0018                       |               |
| 20               | Normal Voltage    | 0.0012                       |               |
| 20               | Battery End Point | 0.0034                       |               |

Note:

1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.6V ; 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 : | Levi Zhuo | Temperature :       | 22~23°C |
|                 |           | Relative Humidity : | 41~42%  |

| GSM850 (GSM) |                   |             |               |                   |                    |                      |                        |                    |
|--------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|------------------------|--------------------|
| 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              | -50.85      | -13           | -37.85            | -57.82             | 1.58                 | 10.70                  | H                  |
|              | 2512              | -51.27      | -13           | -38.27            | -59.52             | 2.102                | 12.50                  | H                  |
|              | 3344              | -60.32      | -13           | -47.32            | -69.21             | 2.856                | 13.90                  | H                  |
|              | 1672              | -47.24      | -13           | -34.24            | -54.21             | 1.58                 | 10.70                  | V                  |
|              | 2512              | -48.29      | -13           | -35.29            | -56.54             | 2.10                 | 12.50                  | V                  |
|              | 3344              | -60.33      | -13           | -47.33            | -69.22             | 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 ( 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              | -48.14      | -13           | -35.14            | -55.11             | 1.58                 | 10.70                  | H                  |
|                       | 2512              | -50.77      | -13           | -37.77            | -59.02             | 2.102                | 12.50                  | H                  |
|                       | 3344              | -59.96      | -13           | -46.96            | -68.85             | 2.856                | 13.90                  | H                  |
|                       | 1672              | -50.92      | -13           | -37.92            | -57.89             | 1.58                 | 10.70                  | V                  |
|                       | 2512              | -47.12      | -13           | -34.12            | -55.37             | 2.10                 | 12.50                  | V                  |
|                       | 3344              | -60.20      | -13           | -47.20            | -69.09             | 2.86                 | 13.90                  | V                  |

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

| GSM1900 (GSM) |                   |              |               |                   |                    |                      |                        |                    |
|---------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|------------------------|--------------------|
| 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              | -56.69       | -13           | -43.69            | -68.95             | 2.64                 | 14.90                  | H                  |
|               | 5640              | -54.70       | -13           | -41.70            | -66.56             | 2.94                 | 14.80                  | H                  |
|               | 7515              | -53.43       | -13           | -40.43            | -63.20             | 3.39                 | 13.16                  | H                  |
|               | 3765              | -57.08       | -13           | -44.08            | -69.34             | 2.64                 | 14.90                  | V                  |
|               | 5640              | -54.75       | -13           | -41.75            | -66.61             | 2.94                 | 14.80                  | V                  |
|               | 7515              | -53.40       | -13           | -40.40            | -63.17             | 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 ( 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              | -56.89       | -13           | -43.89            | -69.15             | 2.641                | 14.90                 | H                  |
|                        | 5640              | -53.66       | -13           | -40.66            | -65.52             | 2.94                 | 14.80                 | H                  |
|                        | 7515              | -53.49       | -13           | -40.49            | -63.26             | 3.39                 | 13.16                 | H                  |
|                        | 3765              | -56.63       | -13           | -43.63            | -68.89             | 2.64                 | 14.90                 | V                  |
|                        | 5640              | -55.18       | -13           | -42.18            | -67.04             | 2.94                 | 14.80                 | V                  |
|                        | 7515              | -53.33       | -13           | -40.33            | -63.10             | 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              | -65.27      | -13           | -52.27            | -72.24             | 1.58                 | 10.70                 | H                  |
|                            | 2512              | -60.07      | -13           | -47.07            | -68.32             | 2.102                | 12.50                 | H                  |
|                            | 3344              | -60.44      | -13           | -47.44            | -69.33             | 2.856                | 13.90                 | H                  |
|                            | 1672              | -65.14      | -13           | -52.14            | -72.11             | 1.58                 | 10.70                 | V                  |
|                            | 2512              | -59.68      | -13           | -46.68            | -67.93             | 2.10                 | 12.50                 | V                  |
|                            | 3344              | -60.23      | -13           | -47.23            | -69.12             | 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              | -56.80       | -13           | -43.80            | -69.06             | 2.64                 | 14.90                 | H                  |
|                             | 5640              | -46.24       | -13           | -33.24            | -58.10             | 2.94                 | 14.80                 | H                  |
|                             | 7515              | -52.67       | -13           | -39.67            | -62.44             | 3.39                 | 13.16                 | H                  |
|                             | 3765              | -57.02       | -13           | -44.02            | -69.28             | 2.64                 | 14.90                 | V                  |
|                             | 5640              | -47.61       | -13           | -34.61            | -59.47             | 2.94                 | 14.80                 | V                  |
|                             | 7515              | -52.49       | -13           | -39.49            | -62.26             | 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              | -57.85       | -13           | -44.85            | -68.59             | 2.604                | 13.34                 | H                  |
|                             | 5190              | -54.87       | -13           | -41.87            | -65.38             | 3.011                | 13.52                 | H                  |
|                             | 6930              | -54.53       | -13           | -41.53            | -64.73             | 3.271                | 13.47                 | H                  |
|                             | 3465              | -58.14       | -13           | -45.14            | -68.88             | 2.604                | 13.34                 | V                  |
|                             | 5190              | -54.90       | -13           | -41.90            | -65.41             | 3.011                | 13.52                 | V                  |
|                             | 6930              | -54.54       | -13           | -41.54            | -64.74             | 3.271                | 13.47                 | V                  |

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



## **Appendix D. Reference Report**

Please refer to Sporton report number FG180507A which is issued separately.