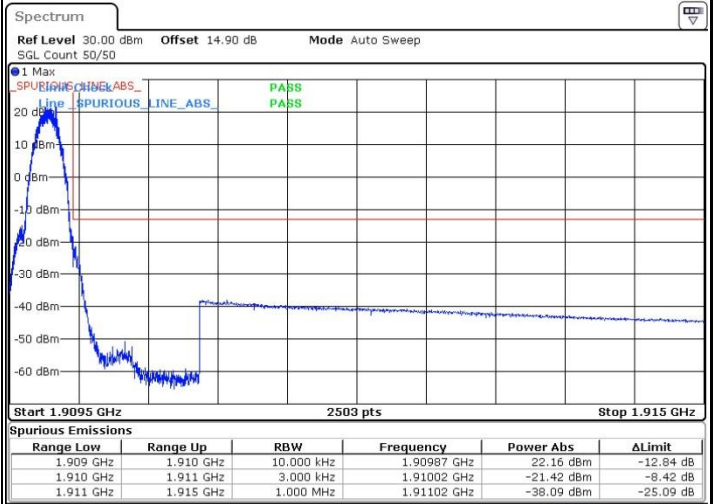
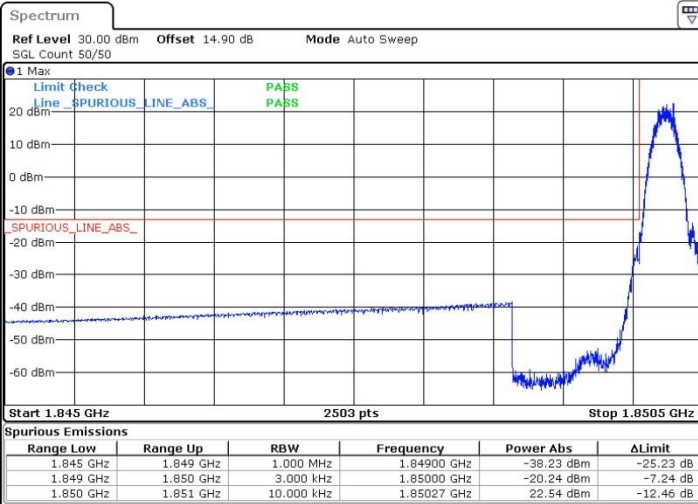




GSM1900 (GSM)

Lowest Band Edge

Highest Band Edge



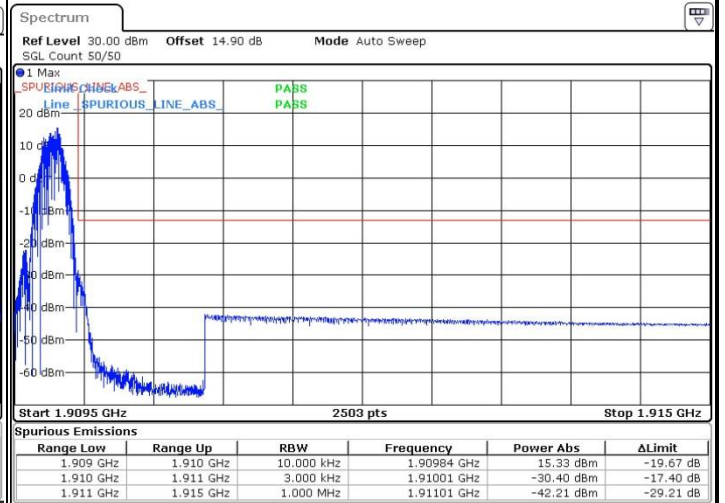
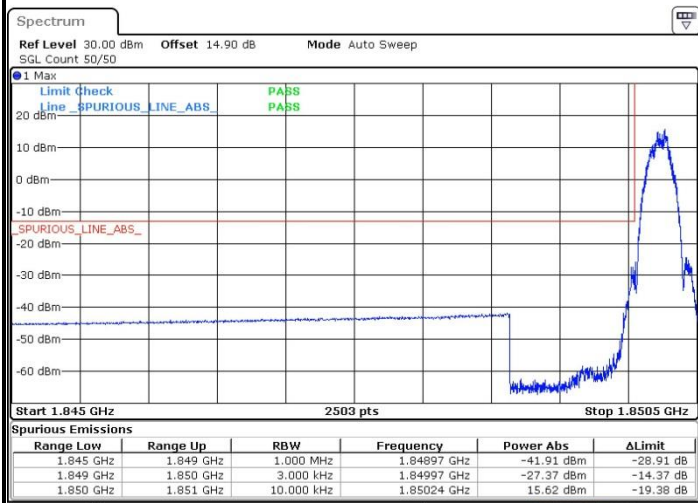
Date: 9 FEB. 2019 21:02:51

Date: 9 FEB. 2019 21:04:19

GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



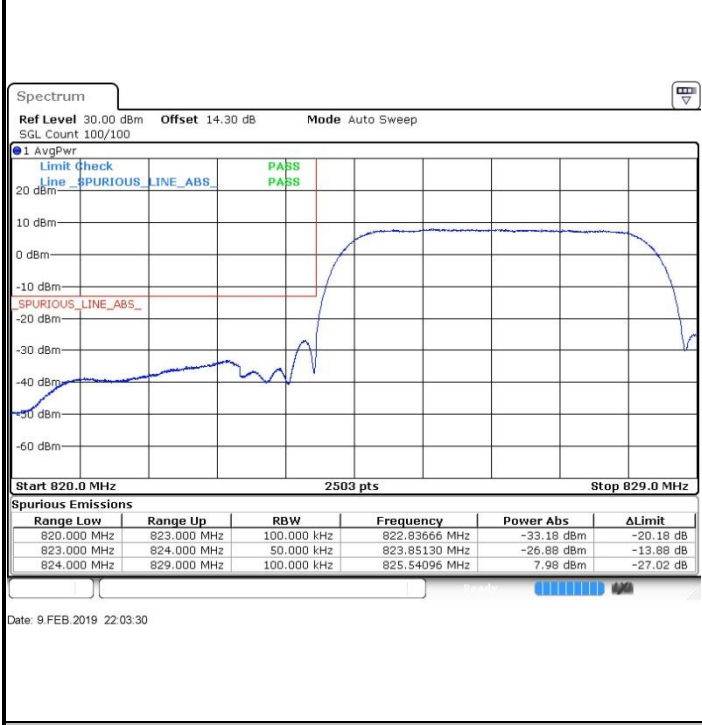
Date: 9 FEB. 2019 21:19:06

Date: 9 FEB. 2019 21:20:44



**WCDMA Band V (RMC 12.2Kbps)**

**Lowest Band Edge**

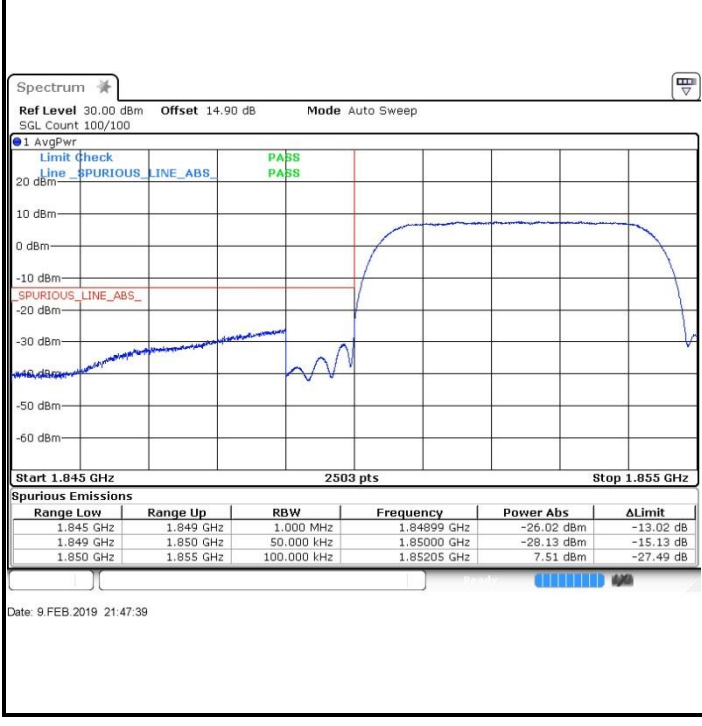


**Highest Band Edge**

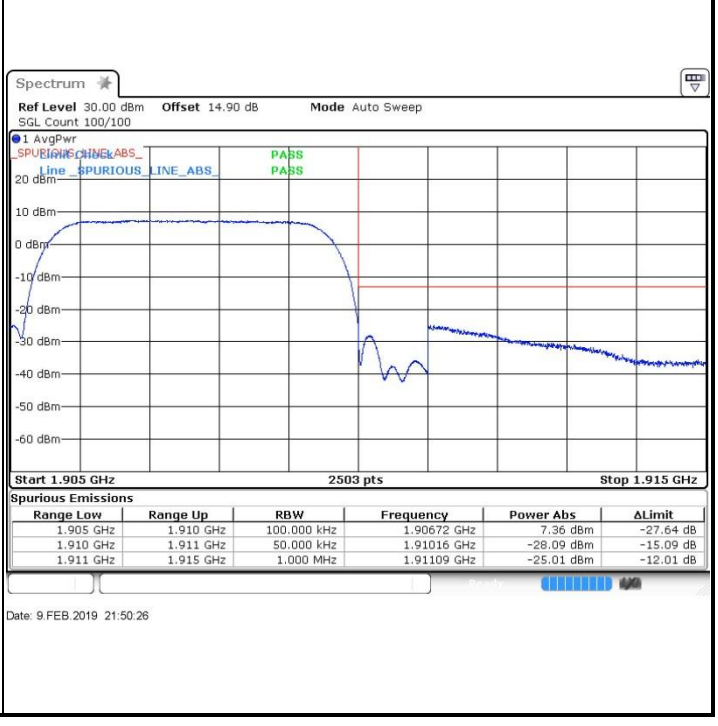


**WCDMA Band II (RMC 12.2Kbps)**

**Lowest Band Edge**



**Highest Band Edge**

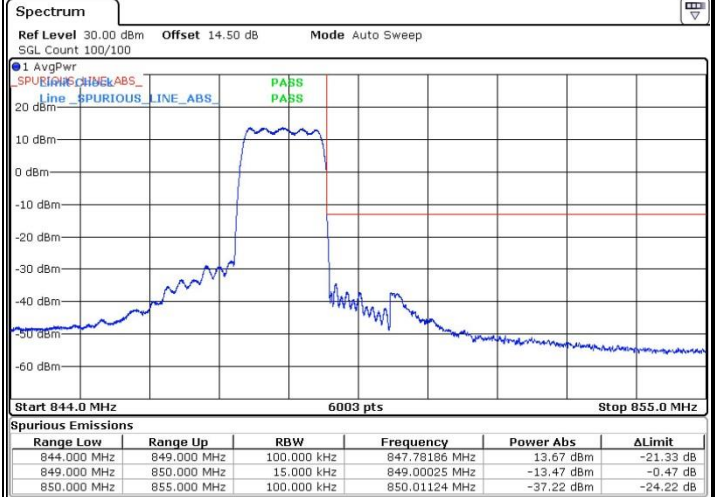
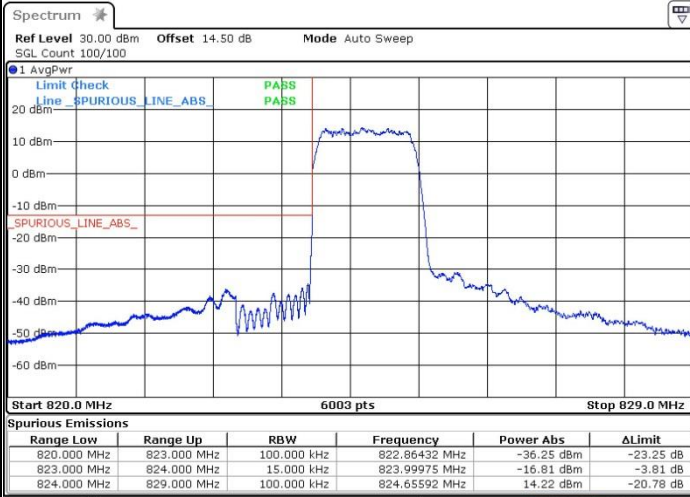




CDMA BC0 (1xRTT)

Lowest Band Edge

Highest Band Edge



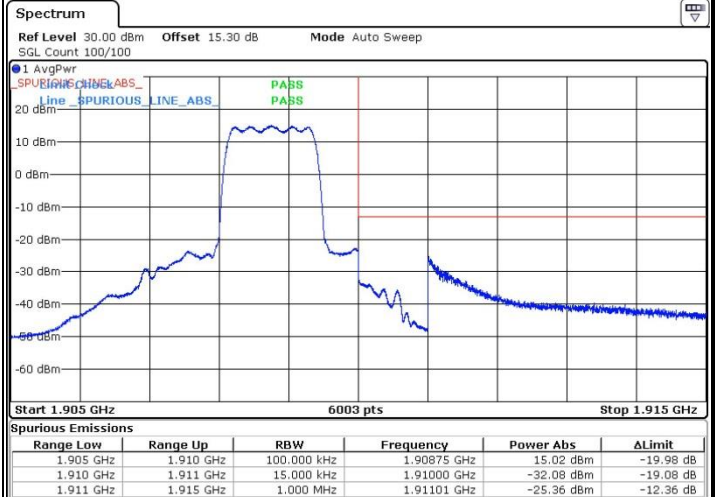
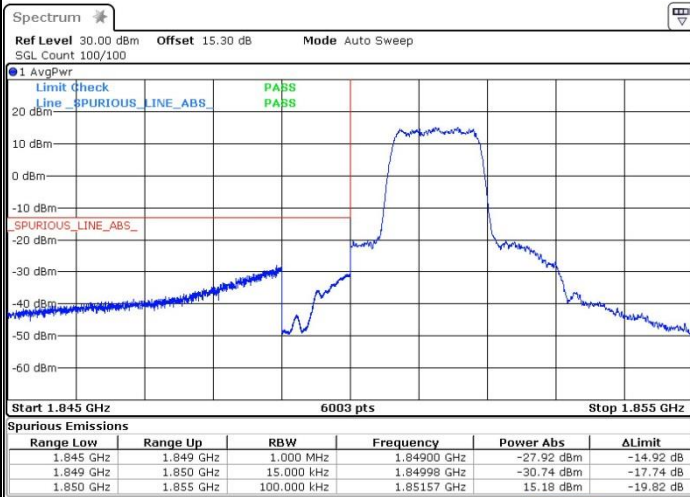
Date: 15.FEB.2019 13:04:06

Date: 15.FEB.2019 13:09:46

CDMA BC1 (1xRTT)

Lowest Band Edge

Highest Band Edge

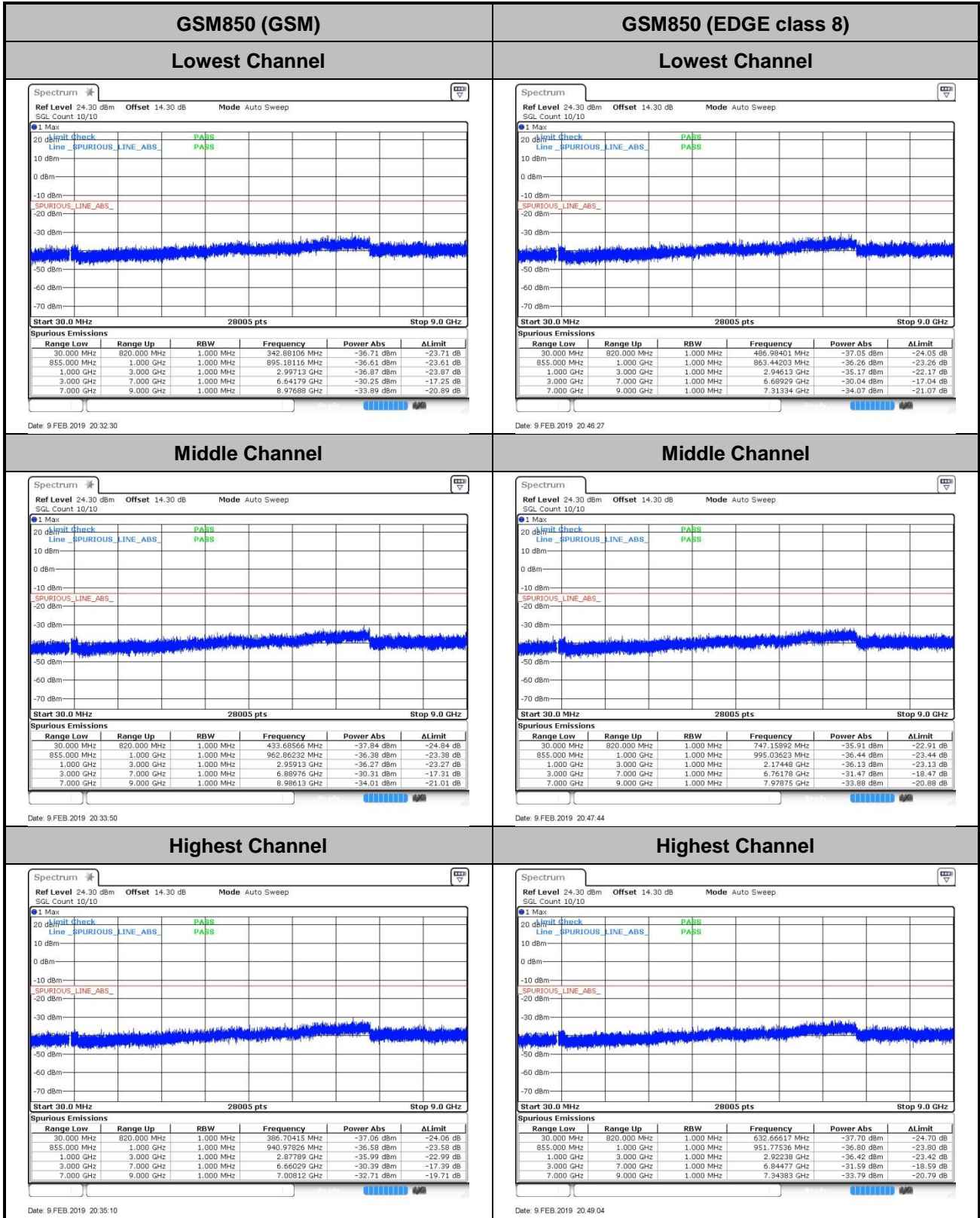


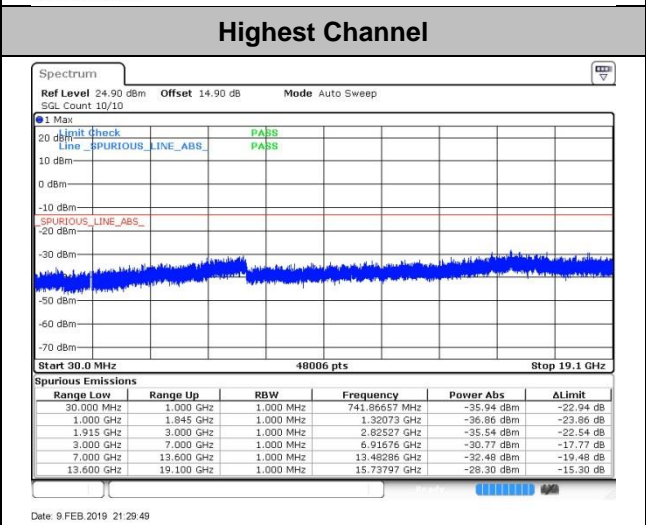
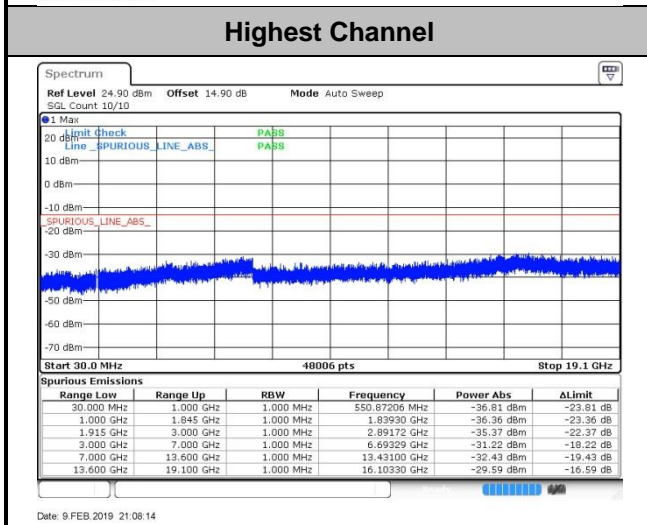
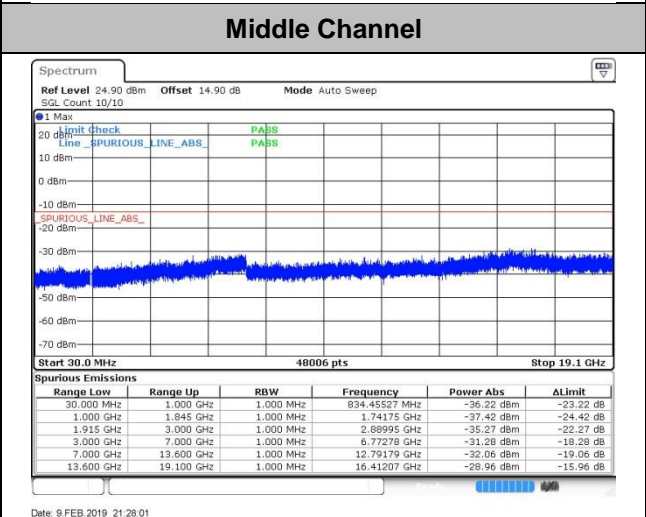
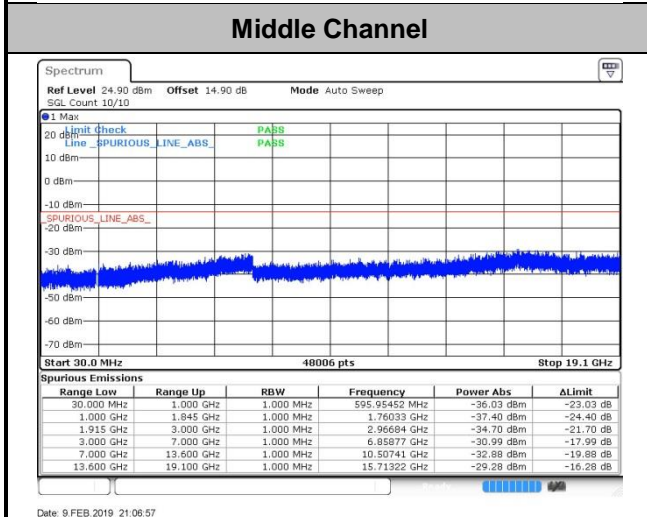
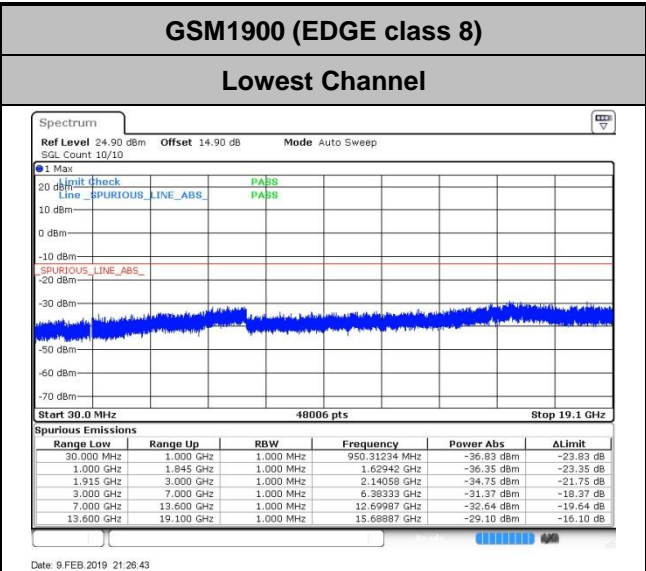
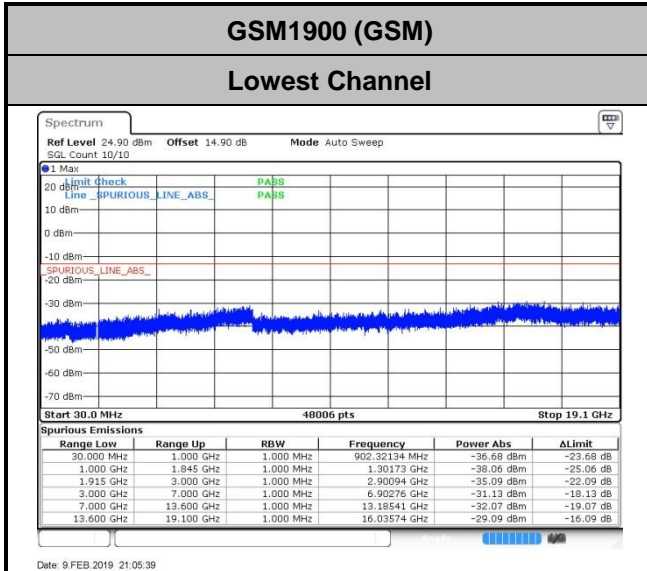
Date: 14.FEB.2019 10:56:03

Date: 14.FEB.2019 11:09:41



# Conducted Spurious Emission

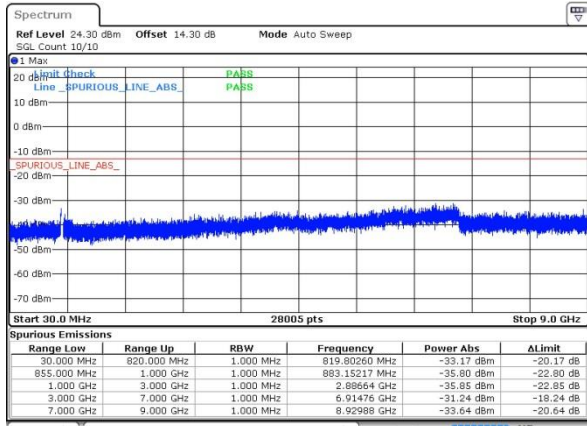






WCDMA Band V (RMC 12.2Kbps)

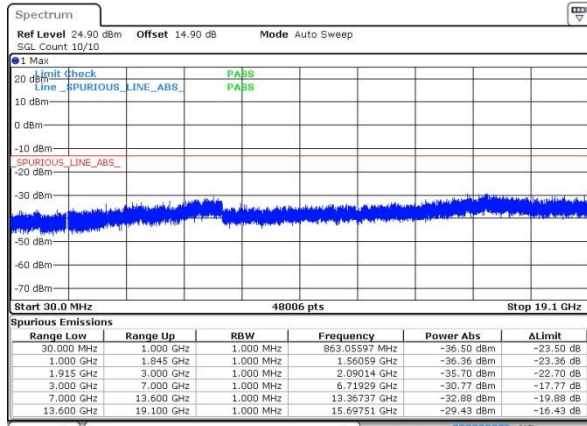
Lowest Channel



Date: 9.FEB.2019 22:10:28

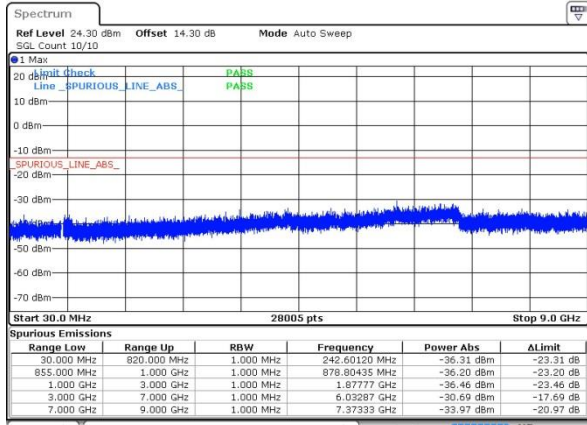
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



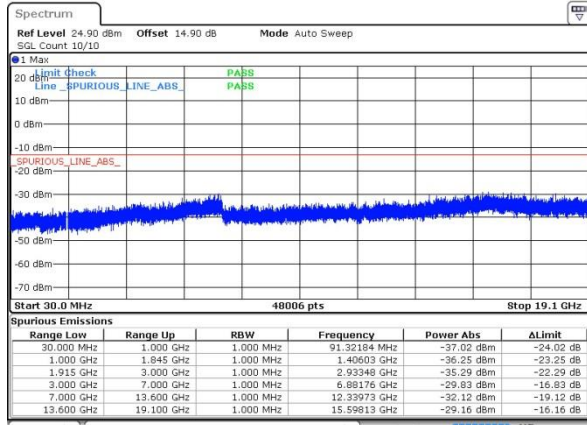
Date: 9.FEB.2019 21:51:46

Middle Channel



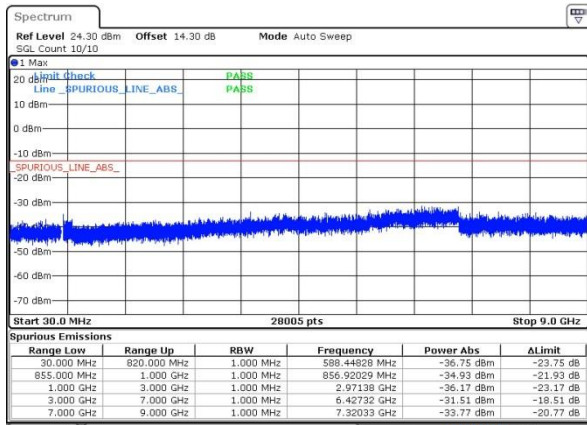
Date: 9.FEB.2019 22:12:15

Middle Channel



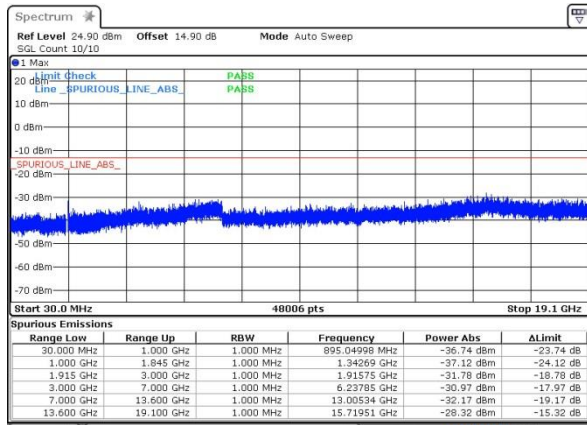
Date: 9.FEB.2019 21:53:03

Highest Channel



Date: 9.FEB.2019 22:13:31

Highest Channel

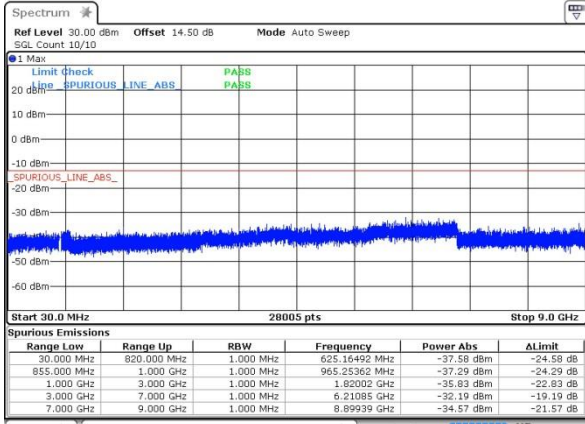


Date: 9.FEB.2019 21:54:22



CDMA BC0 (1xRTT)

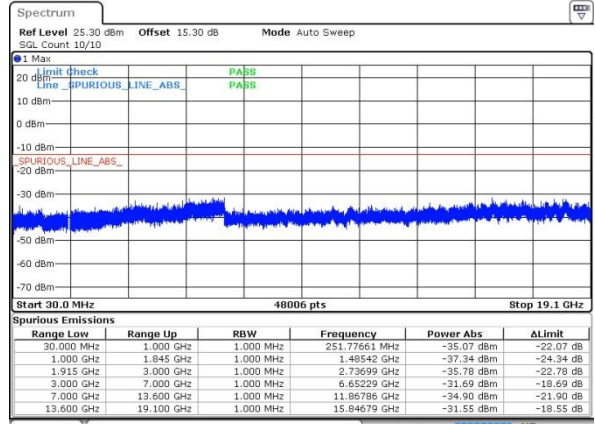
Lowest Channel



Date: 15.FEB.2019 13:12:38

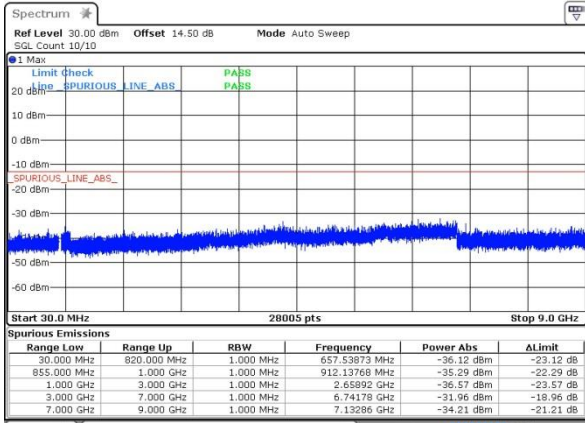
CDMA BC1 (1xRTT)

Lowest Channel



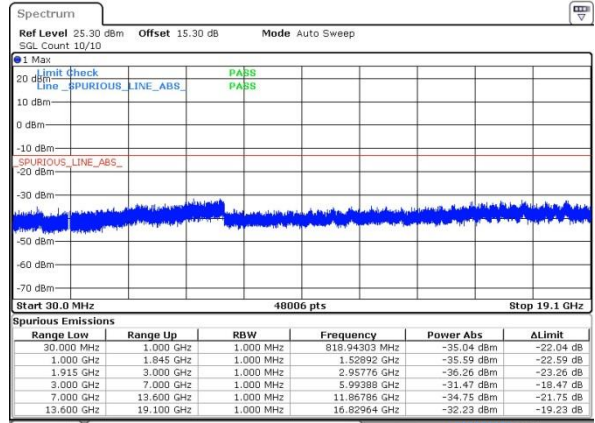
Date: 14.FEB.2019 11:12:53

Middle Channel



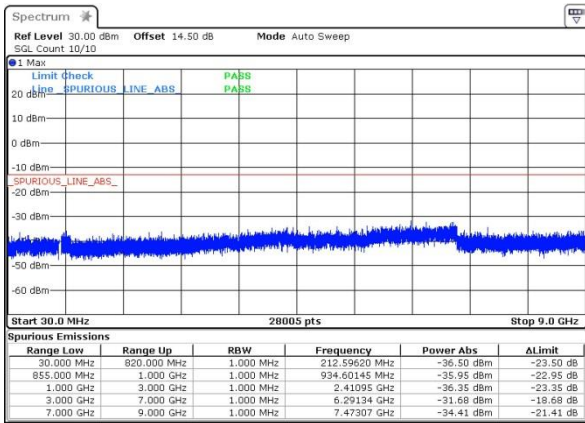
Date: 15.FEB.2019 13:14:02

Middle Channel



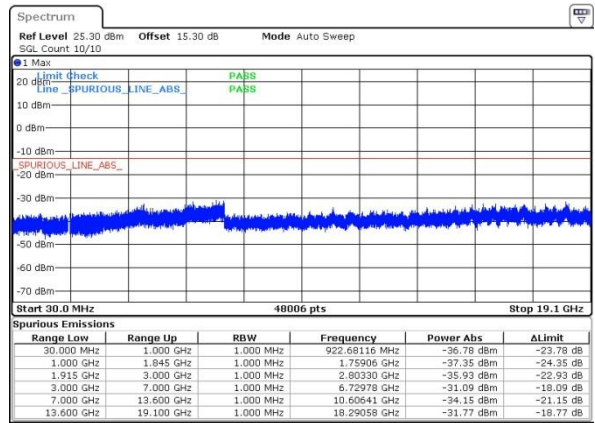
Date: 14.FEB.2019 11:14:14

Highest Channel



Date: 15.FEB.2019 13:15:52

Highest Channel



Date: 14.FEB.2019 11:56:20



Frequency Stability

| Test Conditions  | Middle Channel    | GSM850 (GSM)    | GSM850 (EDGE class 8) | Limit 2.5ppm |
|------------------|-------------------|-----------------|-----------------------|--------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm) |                       | Result       |
| 50               | Normal Voltage    | 0.0048          | 0.0060                | PASS         |
| 40               | Normal Voltage    | 0.0526          | 0.0167                |              |
| 30               | Normal Voltage    | 0.0120          | 0.0538                |              |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                |              |
| 10               | Normal Voltage    | 0.0574          | 0.0335                |              |
| 0                | Normal Voltage    | 0.0191          | 0.0538                |              |
| -10              | Normal Voltage    | 0.0084          | 0.0466                |              |
| -20              | Normal Voltage    | 0.0143          | 0.0167                |              |
| -30              | Normal Voltage    | 0.0108          | 0.0478                |              |
| 20               | Maximum Voltage   | 0.0466          | 0.0514                |              |
| 20               | Normal Voltage    | 0.0000          | 0.0000                |              |
| 20               | Battery End Point | 0.0395          | 0.0395                |              |

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





| Test Conditions  | Middle Channel    | GSM1900 (GSM)   | GSM1900 (EDGE class 8) | Limit Note 2. |
|------------------|-------------------|-----------------|------------------------|---------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm) |                        | Result        |
| 50               | Normal Voltage    | 0.0053          | 0.0005                 | PASS          |
| 40               | Normal Voltage    | 0.0016          | 0.0016                 |               |
| 30               | Normal Voltage    | 0.0027          | 0.0021                 |               |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                 |               |
| 10               | Normal Voltage    | 0.0170          | 0.0255                 |               |
| 0                | Normal Voltage    | 0.0074          | 0.0186                 |               |
| -10              | Normal Voltage    | 0.0160          | 0.0011                 |               |
| -20              | Normal Voltage    | 0.0218          | 0.0037                 |               |
| -30              | Normal Voltage    | 0.0005          | 0.0213                 |               |
| 20               | Maximum Voltage   | 0.0053          | 0.0160                 |               |
| 20               | Normal Voltage    | 0.0000          | 0.0000                 |               |
| 20               | Battery End Point | 0.0133          | 0.0011                 |               |

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 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 V<br>(RMC 12.2Kbps) | Limit<br>2.5ppm |
|------------------|-------------------|--------------------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)                | Result          |
| 50               | Normal Voltage    | 0.0060                         | PASS            |
| 40               | Normal Voltage    | 0.0395                         |                 |
| 30               | Normal Voltage    | 0.0442                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0072                         |                 |
| 0                | Normal Voltage    | 0.0323                         |                 |
| -10              | Normal Voltage    | 0.0048                         |                 |
| -20              | Normal Voltage    | 0.0167                         |                 |
| -30              | Normal Voltage    | 0.0311                         |                 |
| 20               | Maximum Voltage   | 0.0442                         |                 |
| 20               | Normal Voltage    | 0.0000                         |                 |
| 20               | Battery End Point | 0.0012                         |                 |

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



| Test Conditions  | Middle Channel    | WCDMA Band II (RMC 12.2Kbps) | Limit Note 2. |
|------------------|-------------------|------------------------------|---------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)              | Result        |
| 50               | Normal Voltage    | 0.0186                       | PASS          |
| 40               | Normal Voltage    | 0.0128                       |               |
| 30               | Normal Voltage    | 0.0165                       |               |
| 20(Ref.)         | Normal Voltage    | 0.0000                       |               |
| 10               | Normal Voltage    | 0.0117                       |               |
| 0                | Normal Voltage    | 0.0154                       |               |
| -10              | Normal Voltage    | 0.0239                       |               |
| -20              | Normal Voltage    | 0.0005                       |               |
| -30              | Normal Voltage    | 0.0117                       |               |
| 20               | Maximum Voltage   | 0.0165                       |               |
| 20               | Normal Voltage    | 0.0000                       |               |
| 20               | Battery End Point | 0.0032                       |               |

**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    | CDMA BC0<br>(1xRTT) | Limit<br>2.5ppm |
|------------------|-------------------|---------------------|-----------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)     | Result          |
| 50               | Normal Voltage    | 0.0012              | PASS            |
| 40               | Normal Voltage    | 0.0155              |                 |
| 30               | Normal Voltage    | 0.0072              |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000              |                 |
| 10               | Normal Voltage    | 0.0048              |                 |
| 0                | Normal Voltage    | 0.0215              |                 |
| -10              | Normal Voltage    | 0.0048              |                 |
| -20              | Normal Voltage    | 0.0179              |                 |
| -30              | Normal Voltage    | 0.0251              |                 |
| 20               | Maximum Voltage   | 0.0024              |                 |
| 20               | Normal Voltage    | 0.0000              |                 |
| 20               | Battery End Point | 0.0191              |                 |

**Note:**

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.4V



| Test Conditions  | Middle Channel    | CDMA BC1<br>(1xRTT) | Limit<br>Note 2. |
|------------------|-------------------|---------------------|------------------|
| Temperature (°C) | Voltage (Volt)    | Deviation (ppm)     | Result           |
| 50               | Normal Voltage    | 0.0037              | PASS             |
| 40               | Normal Voltage    | 0.0027              |                  |
| 30               | Normal Voltage    | 0.0011              |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000              |                  |
| 10               | Normal Voltage    | 0.0064              |                  |
| 0                | Normal Voltage    | 0.0085              |                  |
| -10              | Normal Voltage    | 0.0005              |                  |
| -20              | Normal Voltage    | 0.0096              |                  |
| -30              | Normal Voltage    | 0.0133              |                  |
| 20               | Maximum Voltage   | 0.0021              |                  |
| 20               | Normal Voltage    | 0.0000              |                  |
| 20               | Battery End Point | 0.0011              |                  |

**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 ( 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              | -60.65      | -13           | -47.65            | -61.86             | 2.32                 | 5.68                  | H                  |
|              | 2508              | -50.97      | -13           | -37.97            | -51.60             | 3.02                 | 5.80                  | H                  |
|              | 3348              | -64.93      | -13           | -51.93            | -67.39             | 3.27                 | 7.88                  | H                  |
|              | 1672              | -58.00      | -13           | -45.00            | -59.21             | 2.32                 | 5.68                  | V                  |
|              | 2508              | -51.12      | -13           | -38.12            | -51.75             | 3.02                 | 5.80                  | V                  |
|              | 3348              | -64.48      | -13           | -51.48            | -66.94             | 3.27                 | 7.88                  | 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              | -67.18      | -13           | -54.18            | -68.39             | 2.32                 | 5.68                  | H                  |
|                       | 2510              | -59.43      | -13           | -46.43            | -60.06             | 3.02                 | 5.80                  | H                  |
|                       | 3348              | -64.77      | -13           | -51.77            | -67.23             | 3.27                 | 7.88                  | H                  |
|                       | 1672              | -63.77      | -13           | -50.77            | -64.98             | 2.32                 | 5.68                  | V                  |
|                       | 2508              | -60.07      | -13           | -47.07            | -60.70             | 3.02                 | 5.80                  | V                  |
|                       | 3348              | -64.77      | -13           | -51.77            | -67.23             | 3.27                 | 7.88                  | 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        | 3759              | -59.21       | -13           | -46.21            | -64.08             | 3.55                 | 8.42                  | H                  |
|               | 5640              | -53.12       | -13           | -40.12            | -59.46             | 4.34                 | 10.68                 | H                  |
|               | 7521              | -51.39       | -13           | -38.39            | -58.19             | 5.14                 | 11.94                 | H                  |
|               | 3759              | -58.27       | -13           | -45.27            | -63.14             | 3.55                 | 8.42                  | V                  |
|               | 5640              | -50.45       | -13           | -37.45            | -56.79             | 4.34                 | 10.68                 | V                  |
|               | 7521              | -51.50       | -13           | -38.50            | -58.30             | 5.14                 | 11.94                 | 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                 | 3759              | -60.29       | -13           | -47.29            | -65.16             | 3.55                 | 8.42                  | H                  |
|                        | 5640              | -56.68       | -13           | -43.68            | -63.02             | 4.34                 | 10.68                 | H                  |
|                        | 7521              | -51.91       | -13           | -38.91            | -58.71             | 5.14                 | 11.94                 | H                  |
|                        | 3759              | -60.21       | -13           | -47.21            | -65.08             | 3.55                 | 8.42                  | V                  |
|                        | 5640              | -56.41       | -13           | -43.41            | -62.75             | 4.34                 | 10.68                 | V                  |
|                        | 7521              | -51.79       | -13           | -38.79            | -58.59             | 5.14                 | 11.94                 | 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              | -68.91      | -13           | -55.91            | -70.12             | 2.32                 | 5.68                  | H                  |
|                            | 2510              | -66.22      | -13           | -53.22            | -66.85             | 3.02                 | 5.80                  | H                  |
|                            | 3348              | -64.75      | -13           | -51.75            | -67.21             | 3.27                 | 7.88                  | H                  |
|                            | 1672              | -69.30      | -13           | -56.30            | -70.51             | 2.32                 | 5.68                  | V                  |
|                            | 2510              | -66.87      | -13           | -53.87            | -67.50             | 3.02                 | 5.80                  | V                  |
|                            | 3348              | -64.99      | -13           | -51.99            | -67.45             | 3.27                 | 7.88                  | 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              | -60.19       | -13           | -47.19            | -65.06             | 3.55                 | 8.42                  | H                  |
|                             | 5640              | -56.57       | -13           | -43.57            | -62.91             | 4.34                 | 10.68                 | H                  |
|                             | 7521              | -51.78       | -13           | -38.78            | -58.58             | 5.14                 | 11.94                 | H                  |
|                             | 3759              | -60.13       | -13           | -47.13            | -65.00             | 3.55                 | 8.42                  | V                  |
|                             | 5640              | -56.98       | -13           | -43.98            | -63.32             | 4.34                 | 10.68                 | V                  |
|                             | 7521              | -51.87       | -13           | -38.87            | -58.67             | 5.14                 | 11.94                 | V                  |

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





| CDMA BC0(1xRTT) |                   |             |               |                   |                    |                      |                       |                    |
|-----------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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) |
| Highest         | 1672              | -66.93      | -13           | -53.93            | -68.14             | 2.32                 | 5.68                  | H                  |
|                 | 2508              | -50.21      | -13           | -37.21            | -50.84             | 3.02                 | 5.80                  | H                  |
|                 | 3348              | -65.27      | -13           | -52.27            | -67.73             | 3.27                 | 7.88                  | H                  |
|                 | 1674              | -69.16      | -13           | -56.16            | -70.37             | 2.32                 | 5.68                  | V                  |
|                 | 2508              | -54.14      | -13           | -41.14            | -54.77             | 3.02                 | 5.80                  | V                  |
|                 | 3348              | -65.07      | -13           | -52.07            | -67.53             | 3.27                 | 7.88                  | V                  |

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

| CDMA BC1(1xRTT) |                   |              |               |                   |                    |                      |                       |                    |
|-----------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -59.84       | -13           | -46.84            | -64.71             | 3.55                 | 8.42                  | H                  |
|                 | 5640              | -49.35       | -13           | -36.35            | -55.69             | 4.34                 | 10.68                 | H                  |
|                 | 7524              | -51.91       | -13           | -38.91            | -58.71             | 5.14                 | 11.94                 | H                  |
|                 | 3759              | -60.04       | -13           | -47.04            | -64.91             | 3.55                 | 8.42                  | V                  |
|                 | 5640              | -50.49       | -13           | -37.49            | -56.83             | 4.34                 | 10.68                 | V                  |
|                 | 7524              | -51.46       | -13           | -38.46            | -58.26             | 5.14                 | 11.94                 | V                  |

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