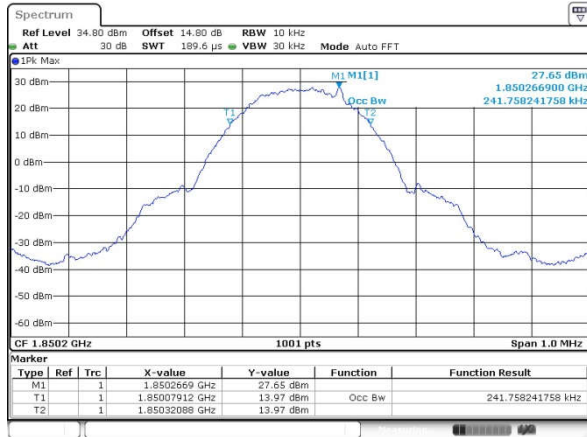




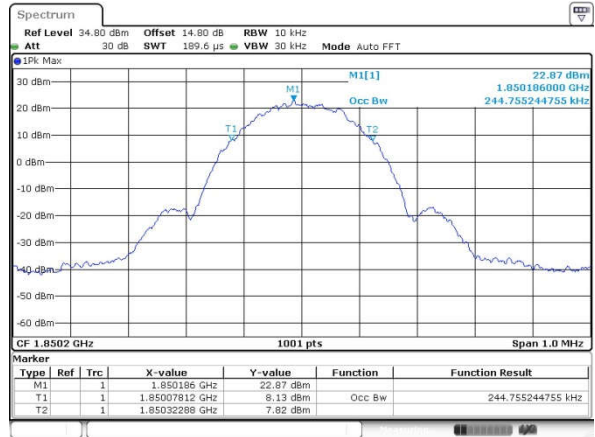
## GSM1900 (GSM)

## Lowest Channel

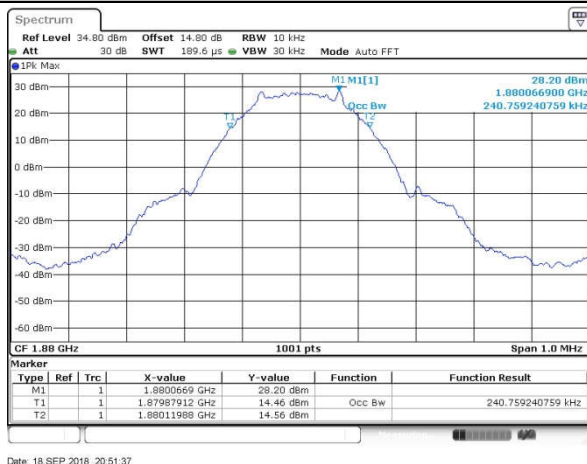


## GSM1900 (EDGE class 8)

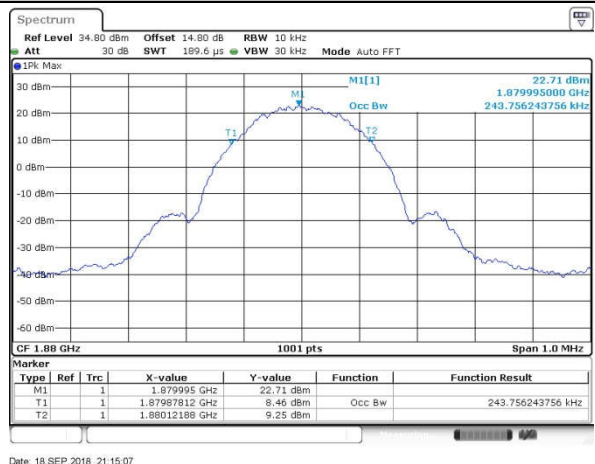
## Lowest Channel



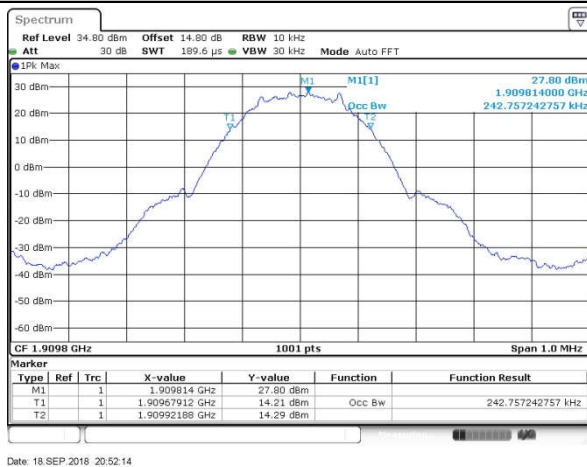
## Middle Channel



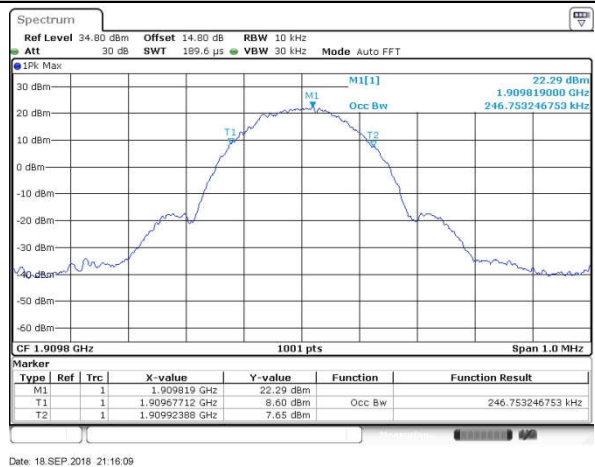
## Middle Channel



## Highest Channel



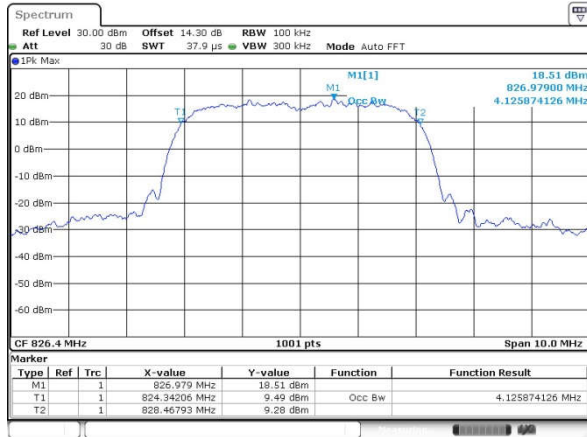
## Highest Channel





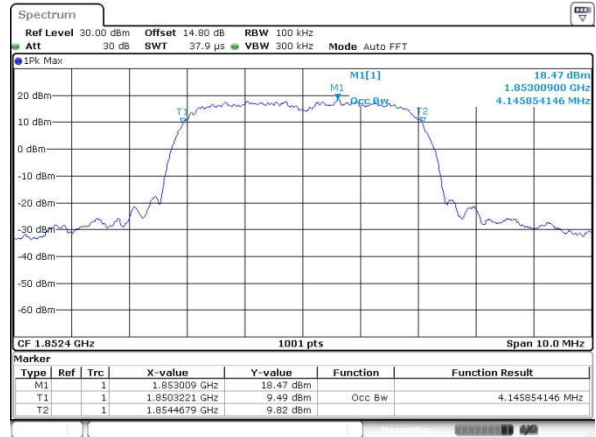
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

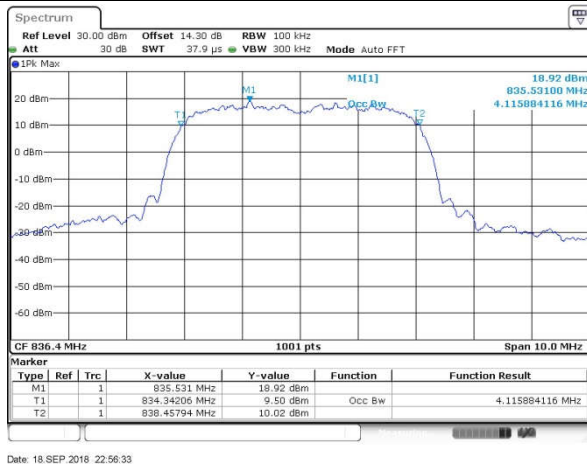


## WCDMA Band II (RMC 12.2Kbps)

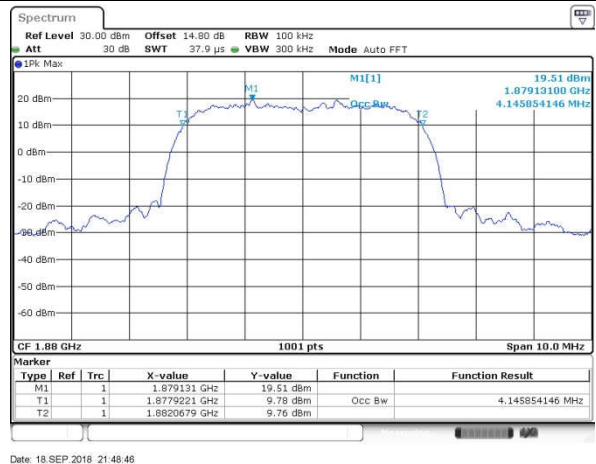
## Lowest Channel



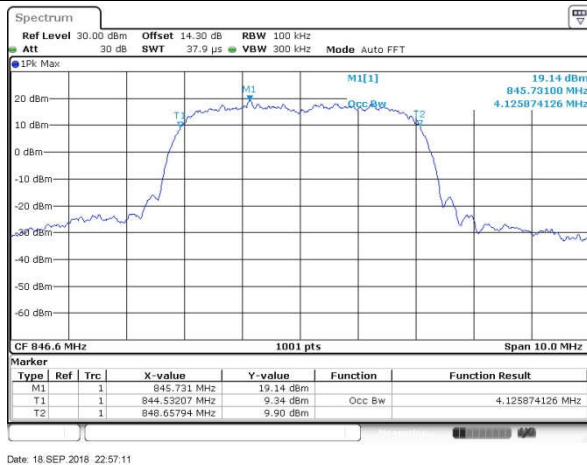
## Middle Channel



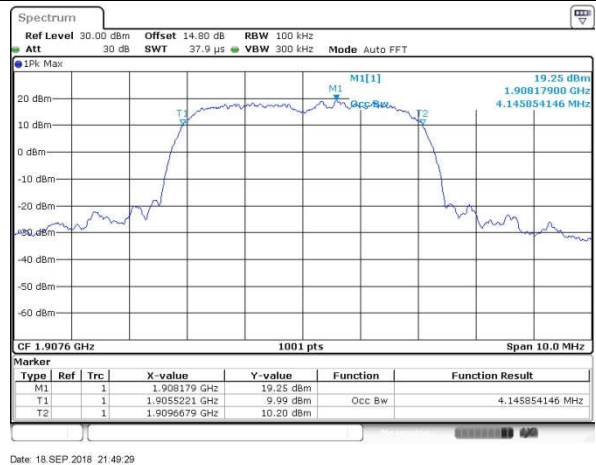
## Middle Channel



## Highest Channel



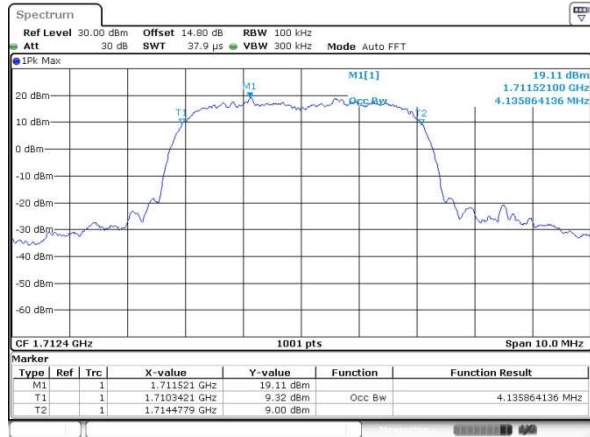
## Highest Channel



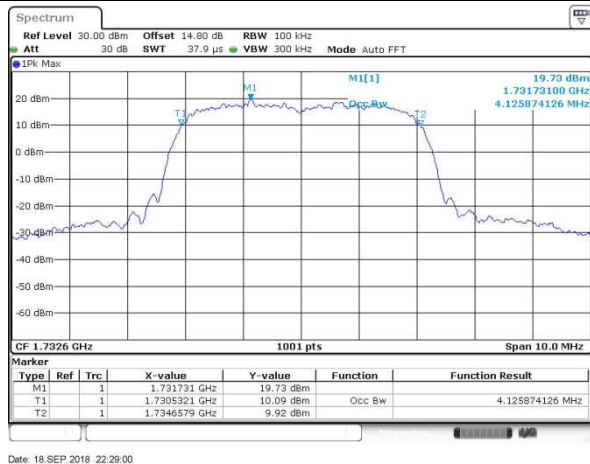


## WCDMA Band IV (RMC 12.2Kbps)

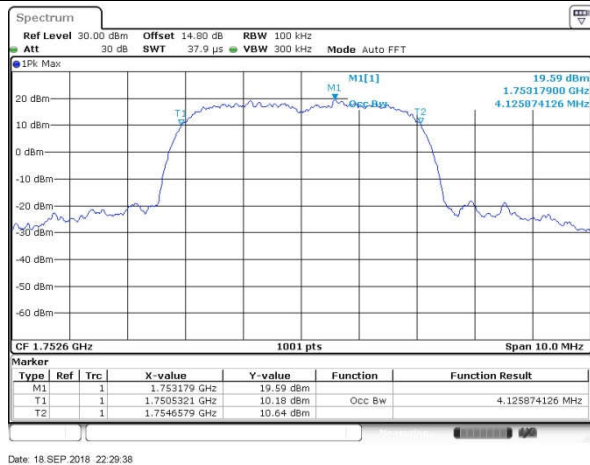
## Lowest Channel

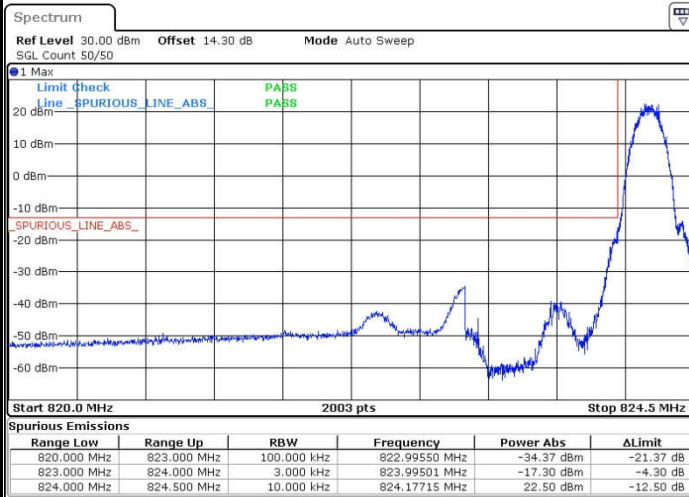
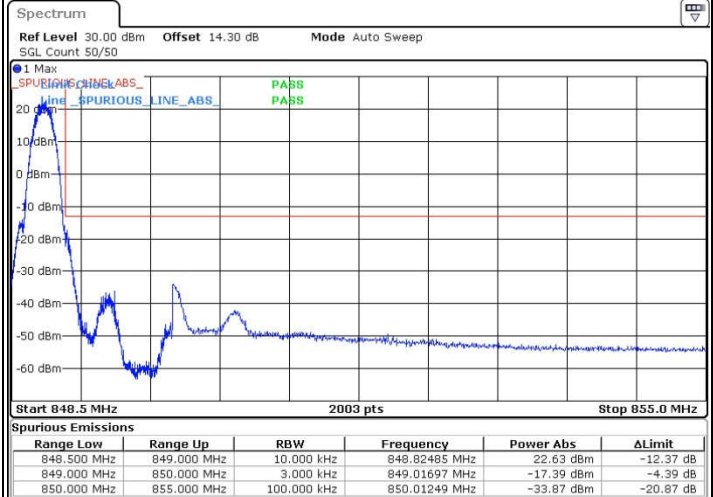
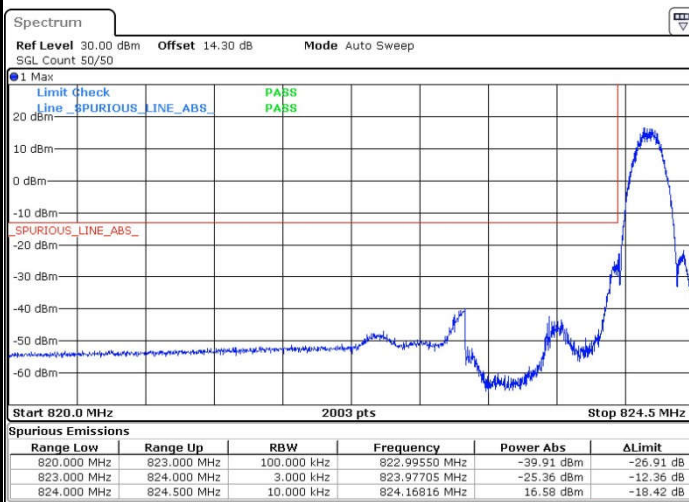
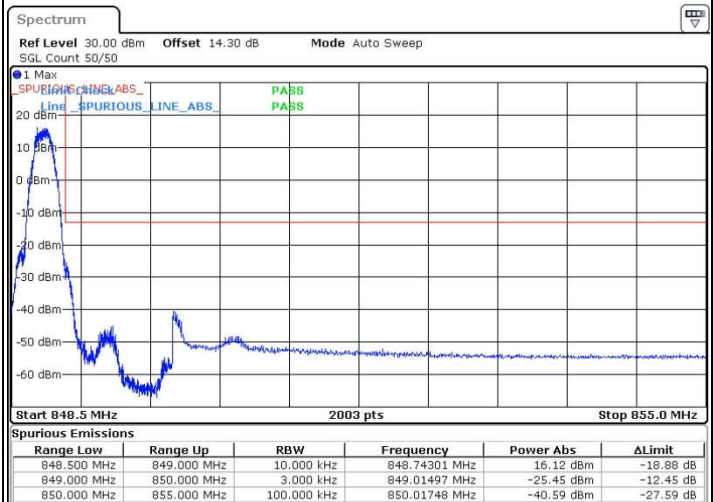


## Middle Channel



## Highest Channel

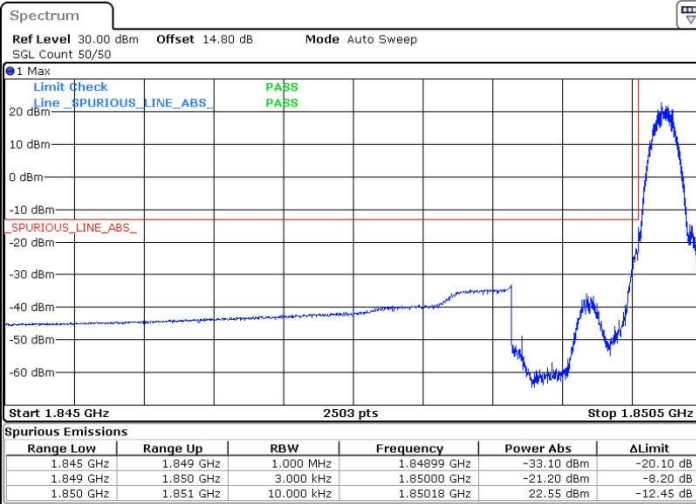


**Conducted Band Edge****GSM850 (GSM)****Lowest Band Edge****Highest Band Edge****GSM850 (EDGE class 8)****Lowest Band Edge****Highest Band Edge**

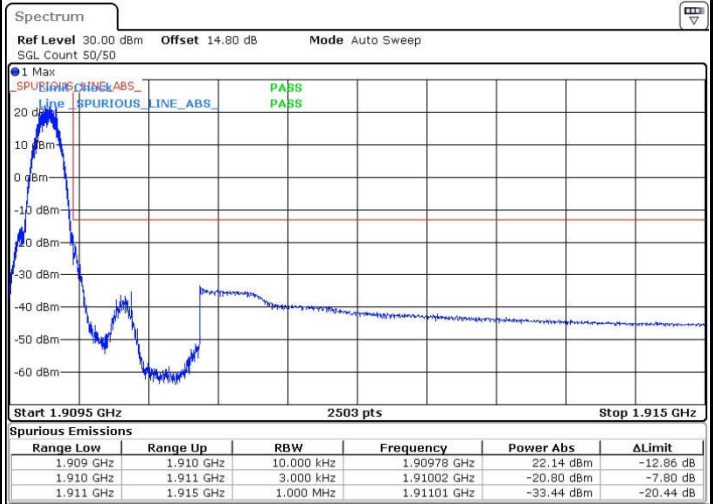


## GSM1900 (GSM)

## Lowest Band Edge

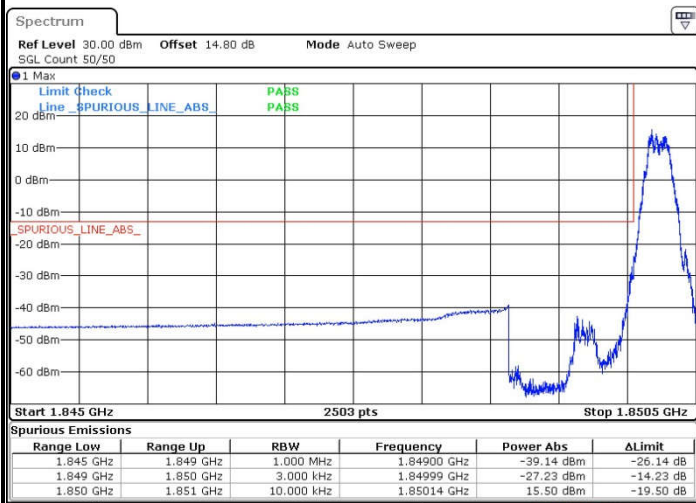


## Highest Band Edge

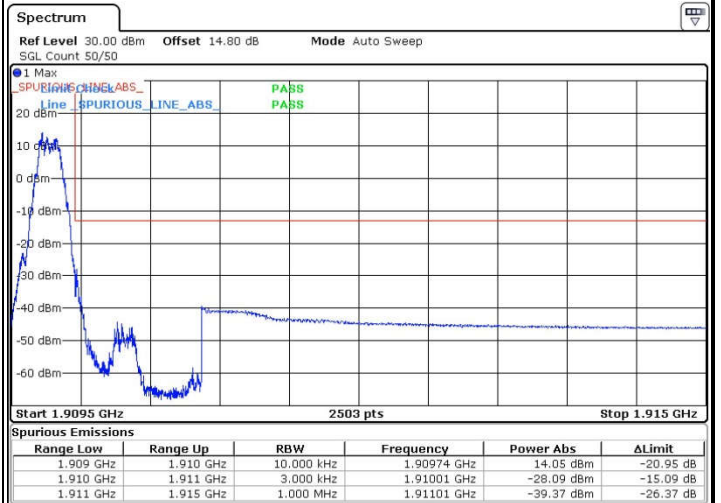


## GSM1900 (EDGE class 8)

## Lowest Band Edge



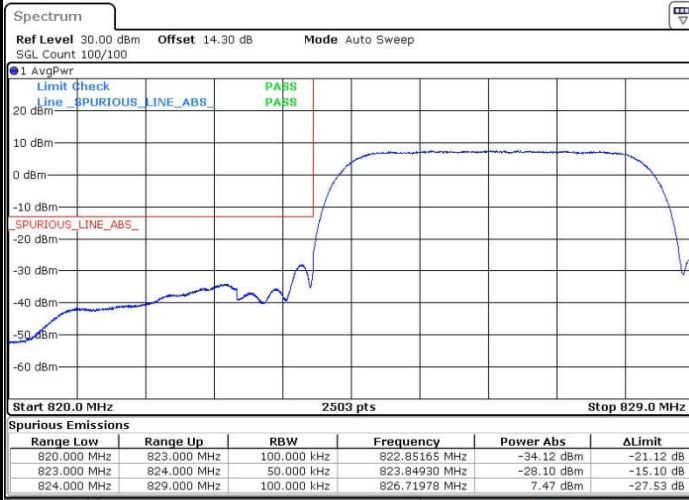
## Highest Band Edge





## WCDMA Band V (RMC 12.2Kbps)

## Lowest Band Edge



## Highest Band Edge

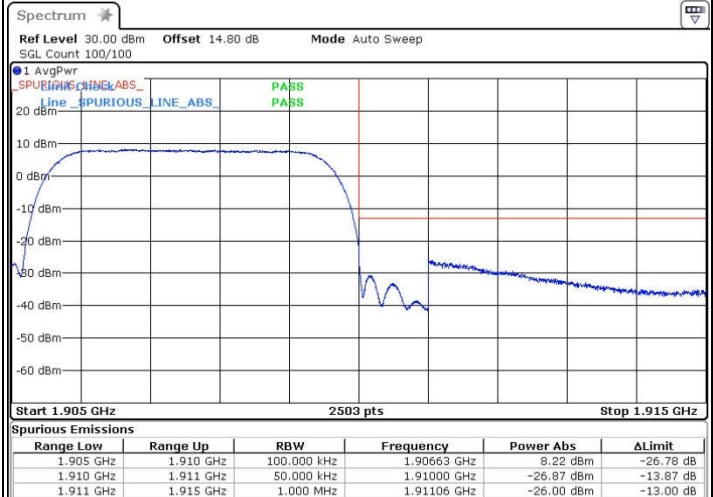


## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge



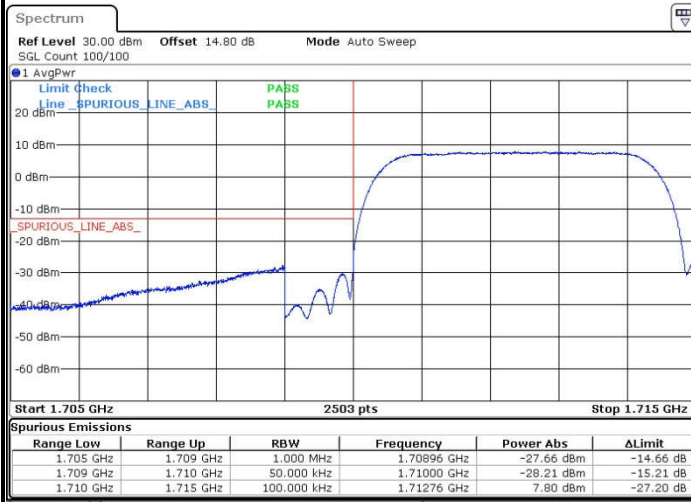
## Highest Band Edge





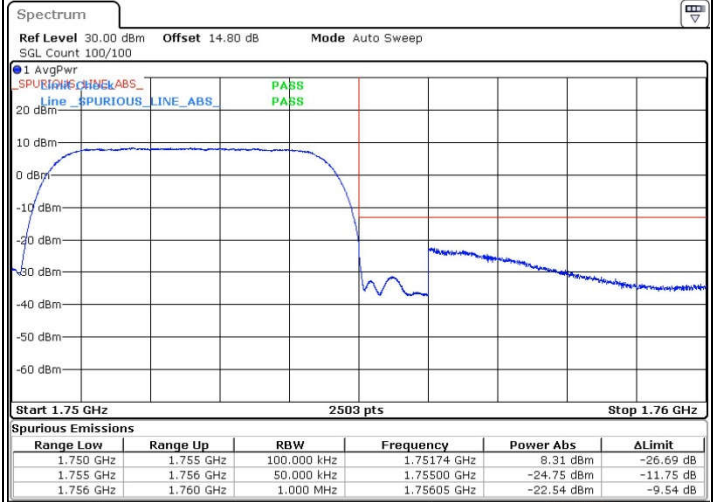
## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



Date: 18 SEP.2018 22:35:04

## Highest Band Edge



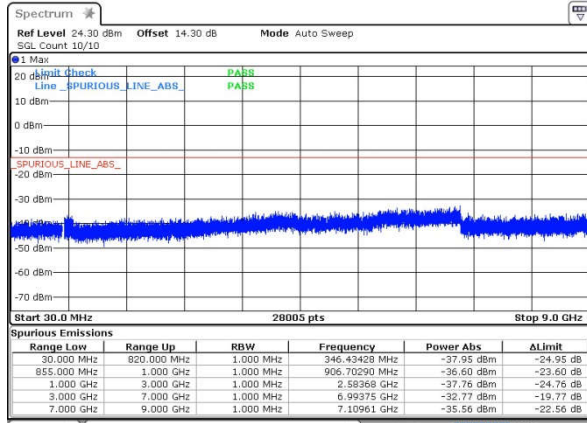
Date: 18 SEP.2018 22:38:00



# Conducted Spurious Emission

## GSM850 (GSM)

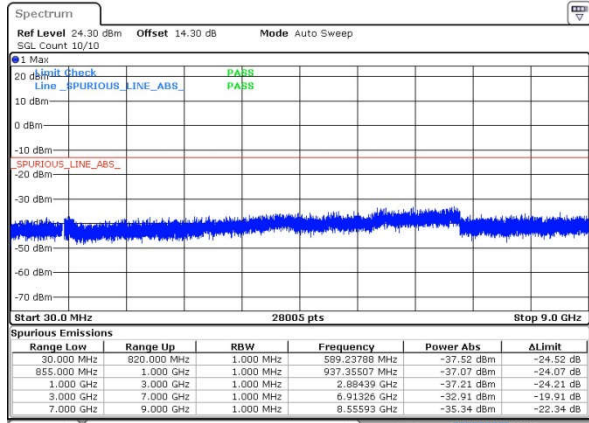
### Lowest Channel



Date: 18 SEP 2018 20:35:49

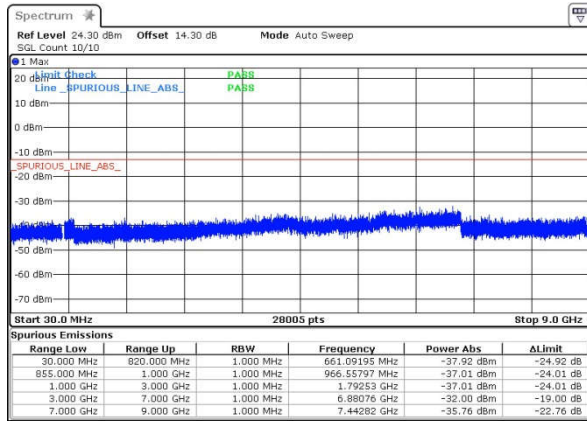
## GSM850 (EDGE class 8)

### Lowest Channel



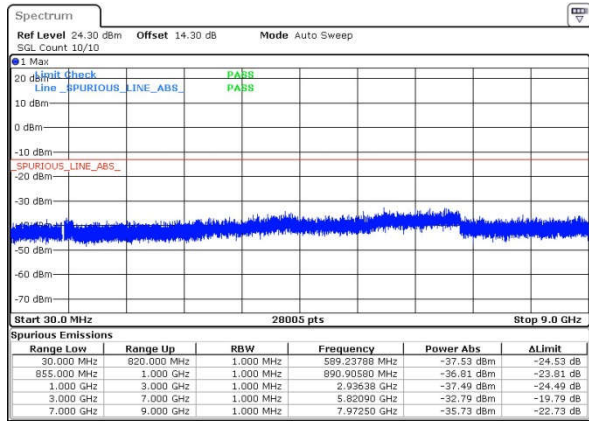
Date: 18 SEP 2018 20:16:25

### Middle Channel



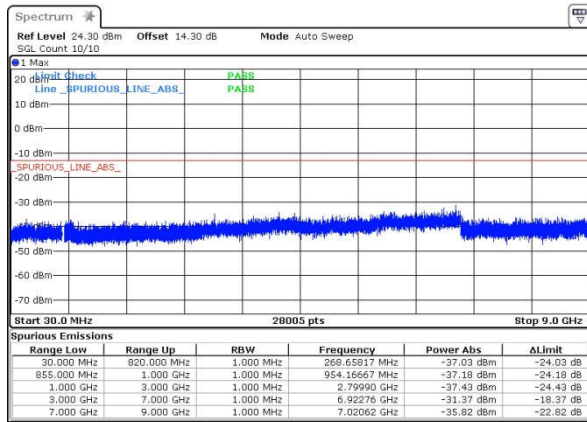
Date: 18 SEP 2018 20:37:12

### Middle Channel



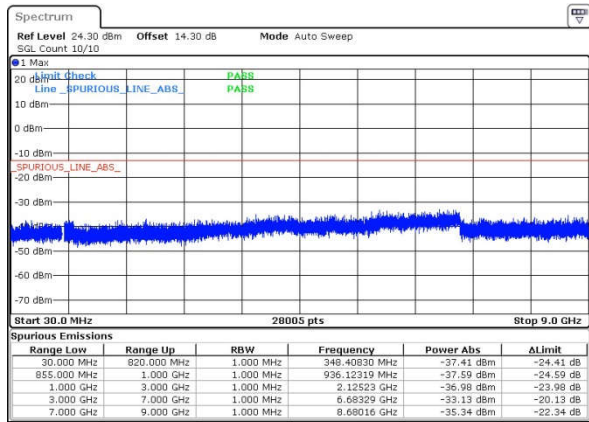
Date: 18 SEP 2018 20:17:50

### Highest Channel



Date: 18 SEP 2018 20:38:36

### Highest Channel

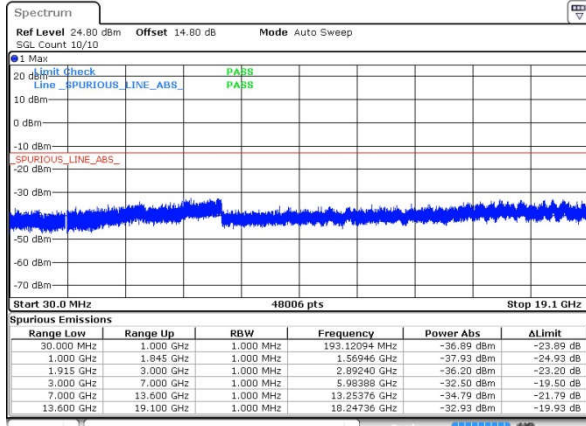


Date: 18 SEP 2018 20:19:20



## GSM1900 (GSM)

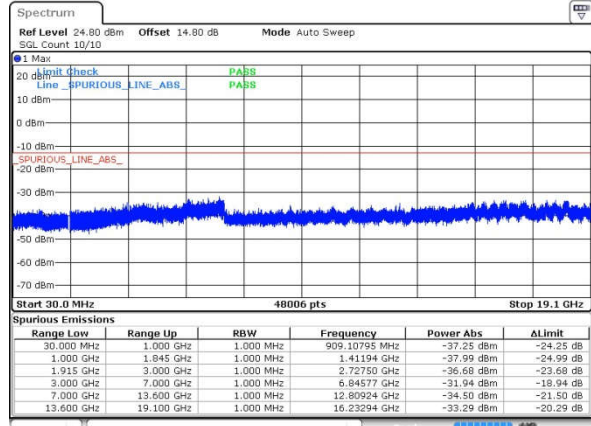
## Lowest Channel



Date: 18 SEP 2018 20:57:51

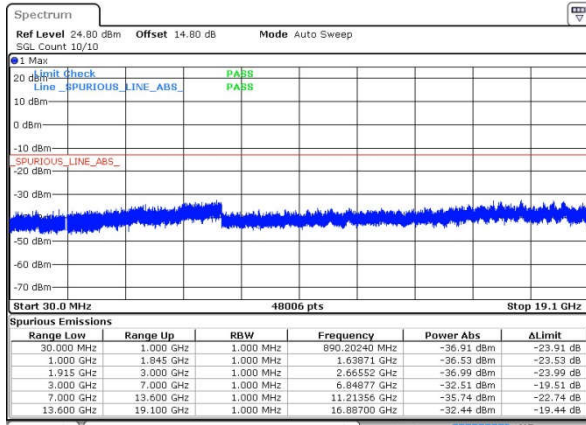
## GSM1900 (EDGE class 8)

## Lowest Channel



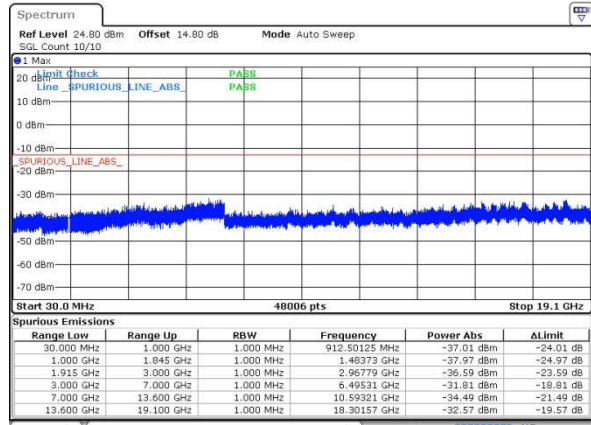
Date: 18 SEP 2018 21:28:54

## Middle Channel



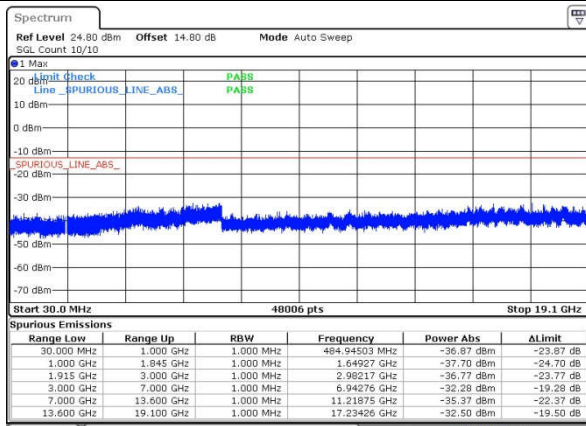
Date: 18 SEP 2018 20:59:37

## Middle Channel



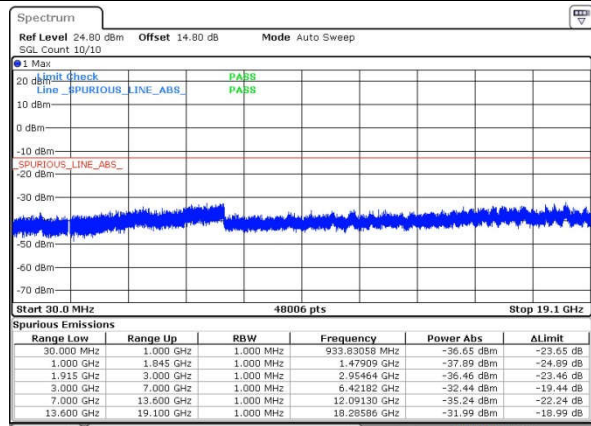
Date: 18 SEP 2018 21:30:33

## Highest Channel



Date: 18 SEP 2018 21:01:11

## Highest Channel

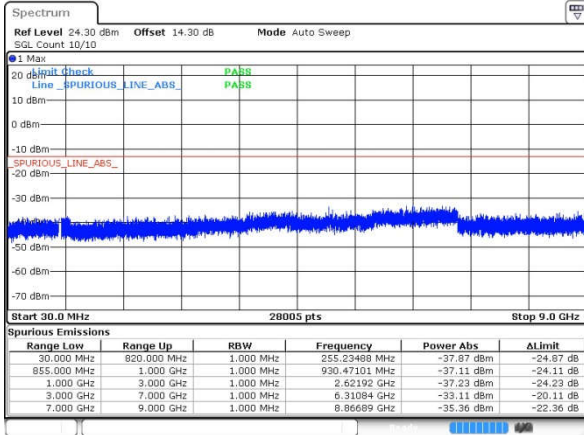


Date: 18 SEP 2018 21:31:56



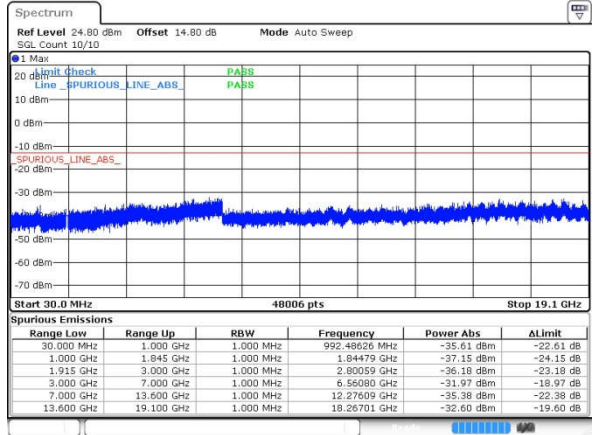
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

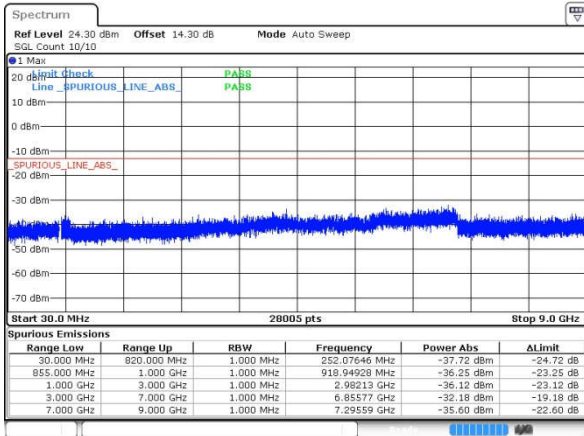


## WCDMA Band II (RMC 12.2Kbps)

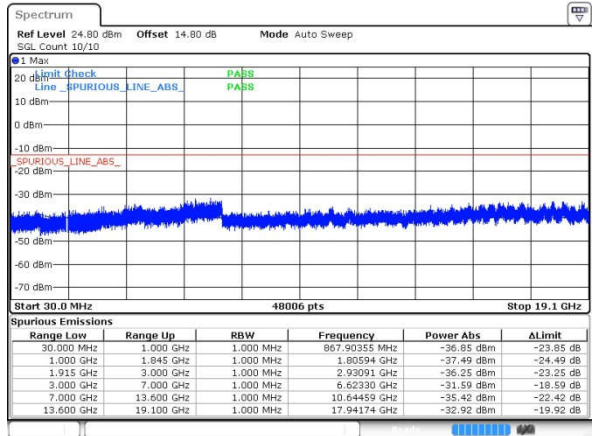
## Lowest Channel



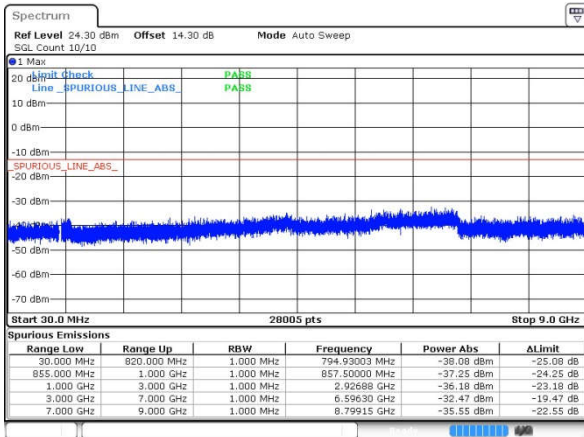
## Middle Channel



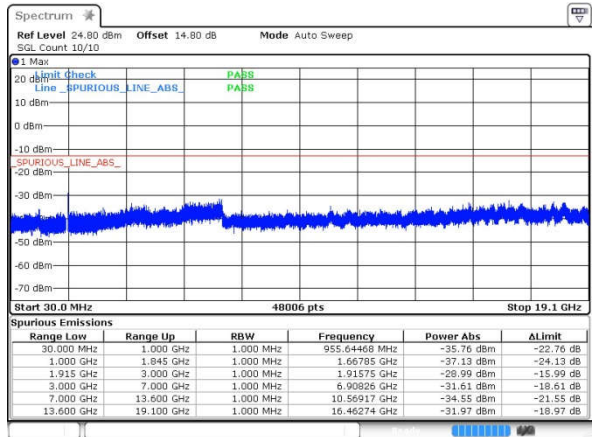
## Middle Channel



## Highest Channel



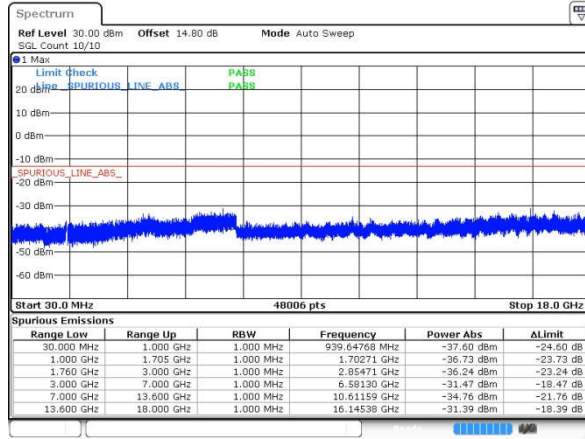
## Highest Channel



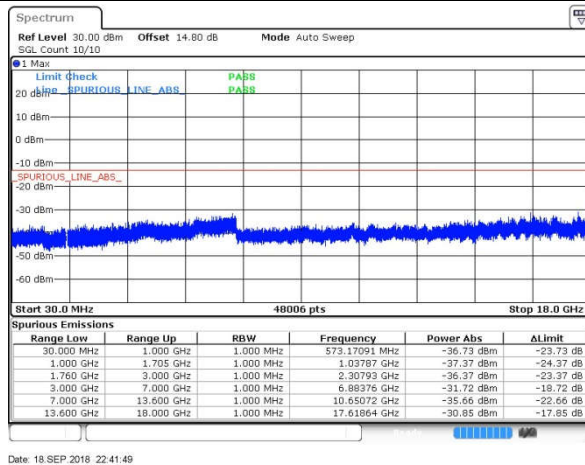


## WCDMA Band IV (RMC 12.2Kbps)

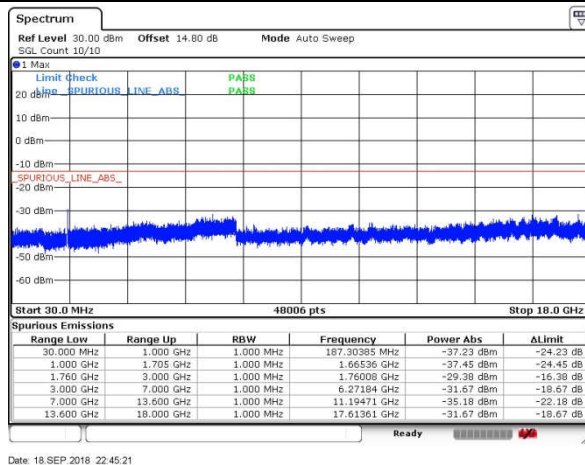
## Lowest Channel



## Middle Channel



## Highest Channel



**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    | 0.0048          | 0.0060                   | PASS            |
| 40               | Normal Voltage    | 0.0036          | 0.0084                   |                 |
| 30               | Normal Voltage    | 0.0335          | 0.0323                   |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000          | 0.0000                   |                 |
| 10               | Normal Voltage    | 0.0407          | 0.0048                   |                 |
| 0                | Normal Voltage    | 0.0478          | 0.0287                   |                 |
| -10              | Normal Voltage    | 0.0108          | 0.0239                   |                 |
| -20              | Normal Voltage    | 0.0371          | 0.0012                   |                 |
| -30              | Normal Voltage    | 0.0442          | 0.0383                   |                 |
| 20               | Maximum Voltage   | 0.0024          | 0.0036                   |                 |
| 20               | Normal Voltage    | 0.0155          | 0.0203                   |                 |
| 20               | Battery End Point | 0.0383          | 0.0359                   |                 |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.2V. ; Maximum Voltage =4.4 V



| 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    | 0.0053           | 0.0069                    | PASS             |
| 40               | Normal Voltage    | 0.0170           | 0.0037                    |                  |
| 30               | Normal Voltage    | 0.0016           | 0.0106                    |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000           | 0.0000                    |                  |
| 10               | Normal Voltage    | 0.0186           | 0.0106                    |                  |
| 0                | Normal Voltage    | 0.0144           | 0.0154                    |                  |
| -10              | Normal Voltage    | 0.0021           | 0.0027                    |                  |
| -20              | Normal Voltage    | 0.0128           | 0.0011                    |                  |
| -30              | Normal Voltage    | 0.0176           | 0.0170                    |                  |
| 20               | Maximum Voltage   | 0.0027           | 0.0027                    |                  |
| 20               | Normal Voltage    | 0.0016           | 0.0021                    |                  |
| 20               | Battery End Point | 0.0096           | 0.0133                    |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.2V. ; 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    | 0.0120                         | PASS            |
| 40               | Normal Voltage    | 0.0371                         |                 |
| 30               | Normal Voltage    | 0.0335                         |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                         |                 |
| 10               | Normal Voltage    | 0.0048                         |                 |
| 0                | Normal Voltage    | 0.0287                         |                 |
| -10              | Normal Voltage    | 0.0036                         |                 |
| -20              | Normal Voltage    | 0.0299                         |                 |
| -30              | Normal Voltage    | 0.0430                         |                 |
| 20               | Maximum Voltage   | 0.0096                         |                 |
| 20               | Normal Voltage    | 0.0012                         |                 |
| 20               | Battery End Point | 0.0395                         |                 |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.2V. ; 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    | 0.0043                          | PASS             |
| 40               | Normal Voltage    | 0.0005                          |                  |
| 30               | Normal Voltage    | 0.0133                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0117                          |                  |
| 0                | Normal Voltage    | 0.0138                          |                  |
| -10              | Normal Voltage    | 0.0027                          |                  |
| -20              | Normal Voltage    | 0.0165                          |                  |
| -30              | Normal Voltage    | 0.0186                          |                  |
| 20               | Maximum Voltage   | 0.0016                          |                  |
| 20               | Normal Voltage    | 0.0011                          |                  |
| 20               | Battery End Point | 0.0122                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.2V. ; Maximum Voltage =4.4V



| 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    | 0.0046                          | PASS             |
| 40               | Normal Voltage    | 0.0012                          |                  |
| 30               | Normal Voltage    | 0.0190                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0156                          |                  |
| 0                | Normal Voltage    | 0.0185                          |                  |
| -10              | Normal Voltage    | 0.0058                          |                  |
| -20              | Normal Voltage    | 0.0035                          |                  |
| -30              | Normal Voltage    | 0.0214                          |                  |
| 20               | Maximum Voltage   | 0.0017                          |                  |
| 20               | Normal Voltage    | 0.0023                          |                  |
| 20               | Battery End Point | 0.0167                          |                  |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.2V. ; 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 Conducted 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              | -53.93      | -13           | -40.93            | -55.14             | 2.32                 | 5.68                  | H                  |
|              | 2510              | -45.57      | -13           | -32.57            | -46.20             | 3.02                 | 5.80                  | H                  |
|              | 3345              | -63.93      | -13           | -50.93            | -66.39             | 3.27                 | 7.88                  | H                  |
|              | 1672              | -50.99      | -13           | -37.99            | -52.20             | 2.32                 | 5.68                  | V                  |
|              | 2510              | -42.08      | -13           | -29.08            | -42.71             | 3.02                 | 5.80                  | V                  |
|              | 3345              | -63.70      | -13           | -50.70            | -66.16             | 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              | -51.90      | -13           | -38.90            | -53.11             | 2.32                 | 5.68                  | H                  |
|                       | 2510              | -48.04      | -13           | -35.04            | -48.67             | 3.02                 | 5.80                  | H                  |
|                       | 3345              | -63.98      | -13           | -50.98            | -66.44             | 3.27                 | 7.88                  | H                  |
|                       | 1672              | -48.66      | -13           | -35.66            | -49.87             | 2.32                 | 5.68                  | V                  |
|                       | 2510              | -45.35      | -13           | -32.35            | -45.98             | 3.02                 | 5.80                  | V                  |
|                       | 3345              | -63.55      | -13           | -50.55            | -66.01             | 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              | -55.40       | -13           | -42.40            | -61.97             | 1.848                | 8.42                  | H                  |
|               | 5640              | -49.41       | -13           | -36.41            | -57.77             | 2.32                 | 10.68                 | H                  |
|               | 7521              | -54.57       | -13           | -41.57            | -63.90             | 2.61                 | 11.94                 | H                  |
|               | 3759              | -57.80       | -13           | -44.80            | -64.37             | 1.85                 | 8.42                  | V                  |
|               | 5640              | -53.89       | -13           | -40.89            | -62.25             | 2.32                 | 10.68                 | V                  |
|               | 7521              | -54.77       | -13           | -41.77            | -64.10             | 2.61                 | 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              | -58.36       | -13           | -45.36            | -64.93             | 1.848                | 8.42                  | H                  |
|                        | 5640              | -56.48       | -13           | -43.48            | -64.84             | 2.32                 | 10.68                 | H                  |
|                        | 7521              | -53.27       | -13           | -40.27            | -62.60             | 2.61                 | 11.94                 | H                  |
|                        | 3759              | -58.44       | -13           | -45.44            | -65.01             | 1.85                 | 8.42                  | V                  |
|                        | 5640              | -57.51       | -13           | -44.51            | -65.87             | 2.32                 | 10.68                 | V                  |
|                        | 7521              | -54.16       | -13           | -41.16            | -63.49             | 2.61                 | 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              | -68.12      | -13           | -55.12            | -69.33             | 2.32                 | 5.68                  | H                  |
|                            | 2509.2            | -65.11      | -13           | -52.11            | -65.74             | 3.02                 | 5.80                  | H                  |
|                            | 3345              | -63.55      | -13           | -50.55            | -66.01             | 3.27                 | 7.88                  | H                  |
|                            | 1672              | -68.26      | -13           | -55.26            | -69.47             | 2.32                 | 5.68                  | V                  |
|                            | 2509.2            | -66.18      | -13           | -53.18            | -66.81             | 3.02                 | 5.80                  | V                  |
|                            | 3345              | -63.86      | -13           | -50.86            | -66.32             | 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<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                 | -58.36          | -13              | -45.36                  | -64.93                   | 1.848                      | 8.42                        | H                     |
|                             | 5640                 | -56.48          | -13              | -43.48                  | -64.84                   | 2.32                       | 10.68                       | H                     |
|                             | 7521                 | -53.27          | -13              | -40.27                  | -62.60                   | 2.61                       | 11.94                       | H                     |
|                             | 3759                 | -58.44          | -13              | -45.44                  | -65.01                   | 1.85                       | 8.42                        | V                     |
|                             | 5640                 | -57.51          | -13              | -44.51                  | -65.87                   | 2.32                       | 10.68                       | V                     |
|                             | 7521                 | -54.16          | -13              | -41.16                  | -63.49                   | 2.61                       | 11.94                       | 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                 | -63.98          | -13              | -50.98                  | -68.70                   | 3.41                       | 8.13                        | H                     |
|                             | 5197.8               | -60.65          | -13              | -47.65                  | -66.66                   | 4.195                      | 10.20                       | H                     |
|                             | 6930                 | -56.42          | -13              | -43.42                  | -62.87                   | 4.91                       | 11.36                       | H                     |
|                             | 3465                 | -63.88          | -13              | -50.88                  | -68.60                   | 3.413                      | 8.13                        | V                     |
|                             | 5197.8               | -60.52          | -13              | -47.52                  | -66.53                   | 4.195                      | 10.20                       | V                     |
|                             | 6930                 | -56.54          | -13              | -43.54                  | -62.99                   | 4.911                      | 11.36                       | V                     |

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