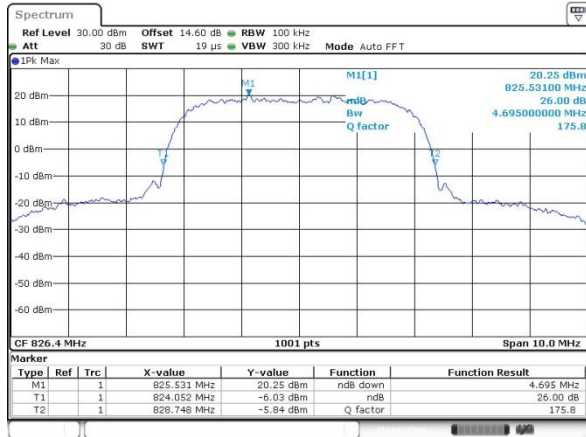




## WCDMA Band V (RMC 12.2Kbps)

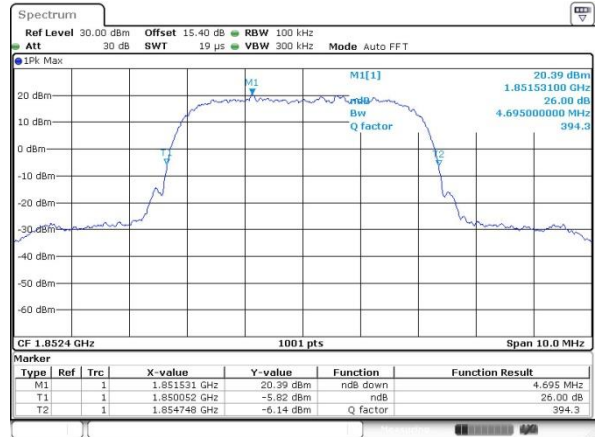
## Lowest Channel



Date: 30.JAN.2022 14:34:52

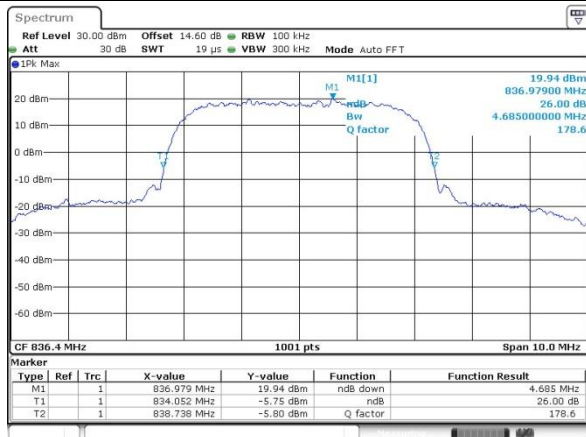
## WCDMA Band II (RMC 12.2Kbps)

## Lowest Channel



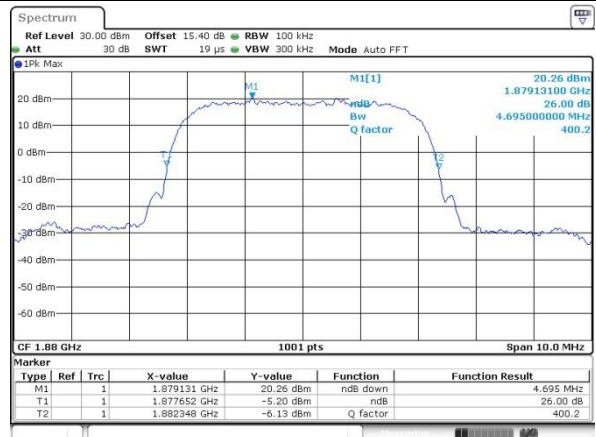
Date: 30.JAN.2022 13:51:30

## Middle Channel



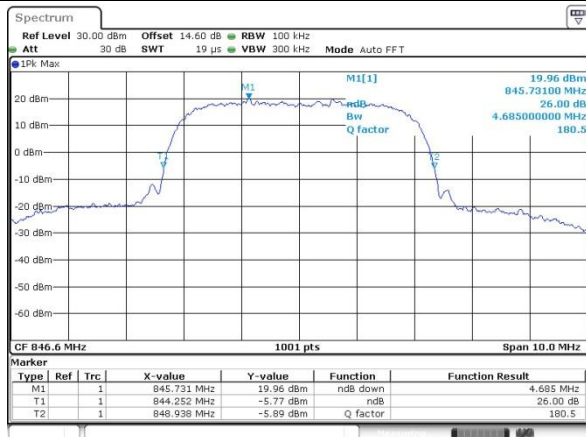
Date: 30.JAN.2022 14:36:12

## Middle Channel



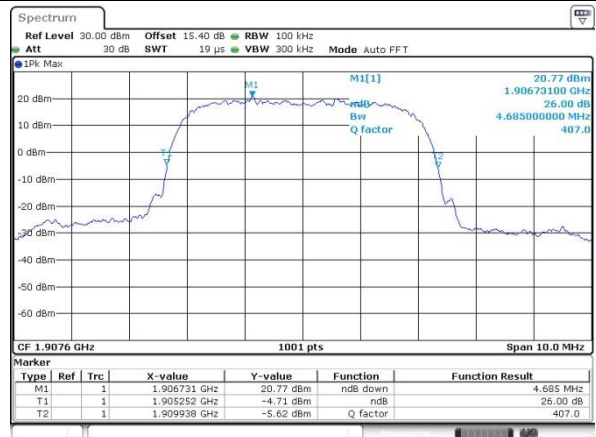
Date: 30.JAN.2022 13:52:07

## Highest Channel



Date: 30.JAN.2022 14:36:39

## Highest Channel

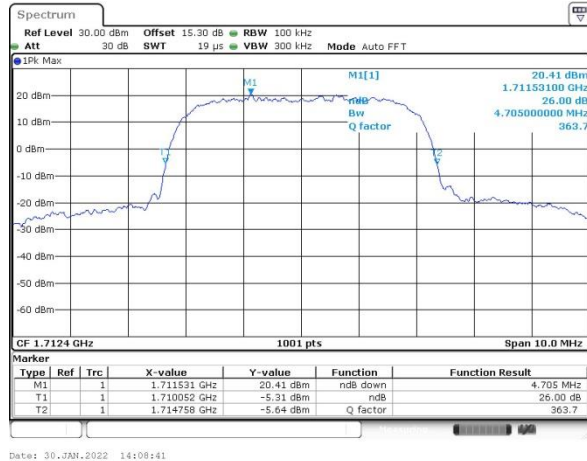


Date: 30.JAN.2022 13:52:54

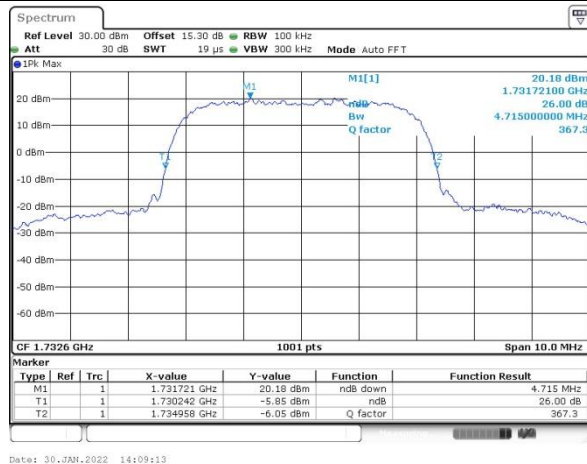


## WCDMA Band IV (RMC 12.2Kbps)

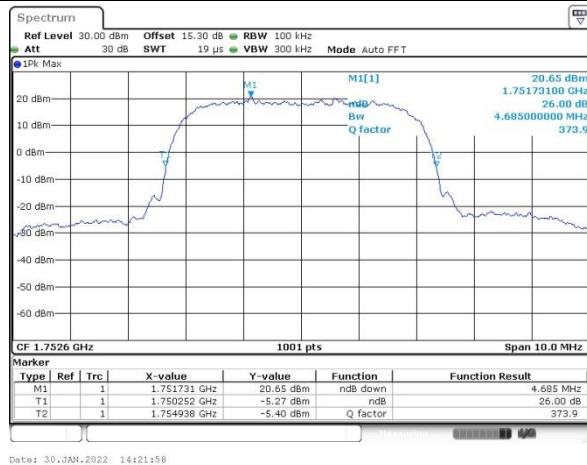
## Lowest Channel



## Middle Channel



## Highest Channel



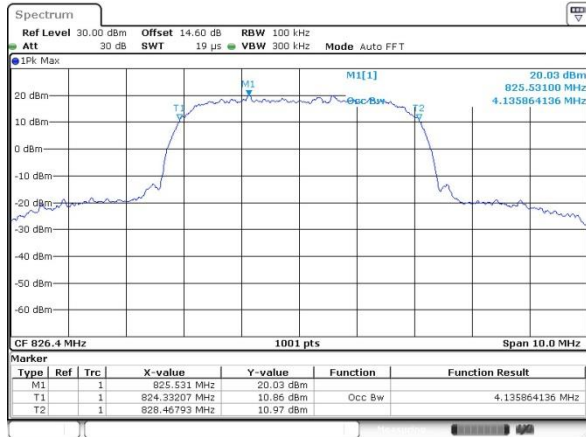
**Occupied Bandwidth**

| Mode       | WCDMA Band V(MHz) | WCDMA Band II(MHz) | WCDMA Band IV(MHz) |
|------------|-------------------|--------------------|--------------------|
| Mod.       | RMC 12.2Kbps      | RMC 12.2Kbps       | RMC 12.2Kbps       |
| Lowest CH  | 4.14              | 4.14               | 4.15               |
| Middle CH  | 4.15              | 4.14               | 4.15               |
| Highest CH | 4.13              | 4.14               | 4.14               |



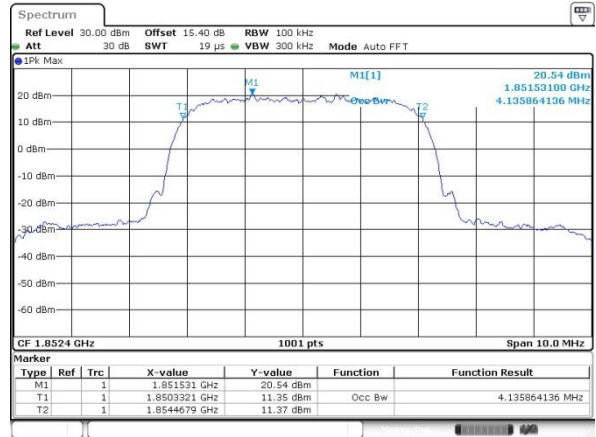
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

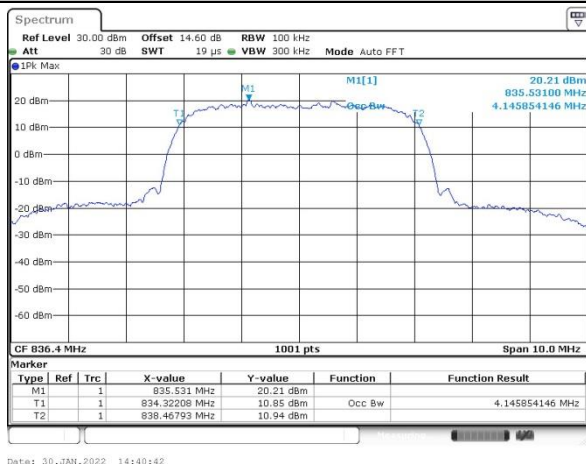


## WCDMA Band II (RMC 12.2Kbps)

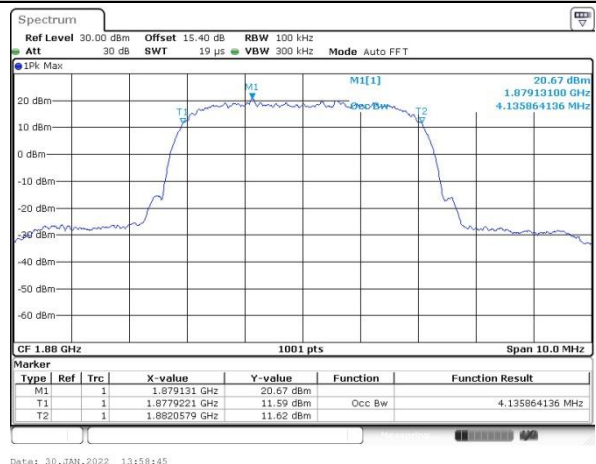
## Lowest Channel



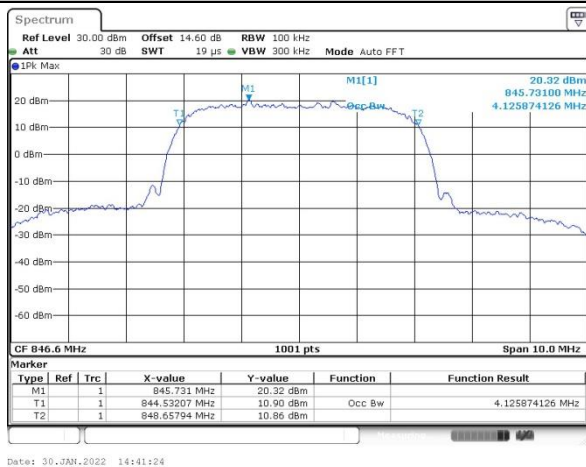
## Middle Channel



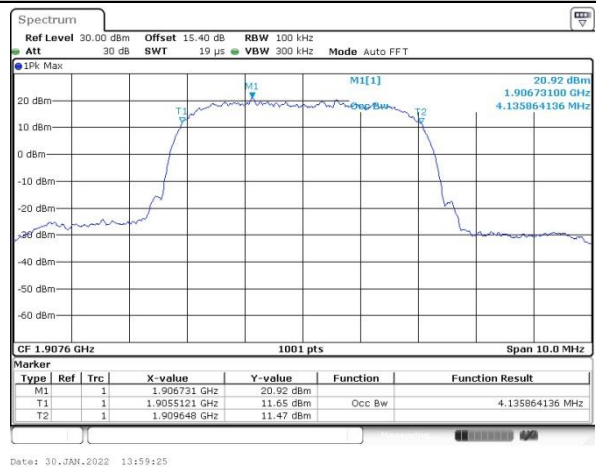
## Middle Channel



## Highest Channel



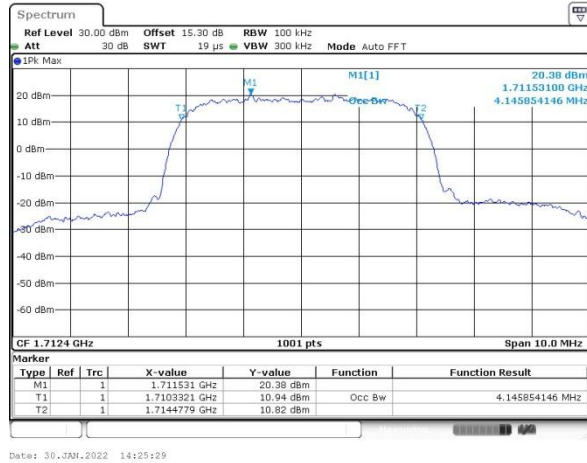
## Highest Channel



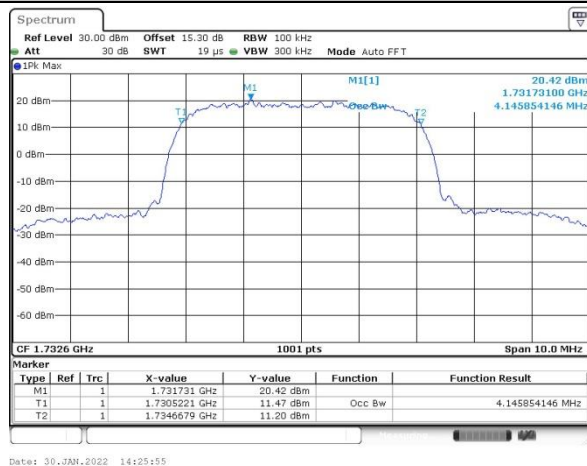


## WCDMA Band IV (RMC 12.2Kbps)

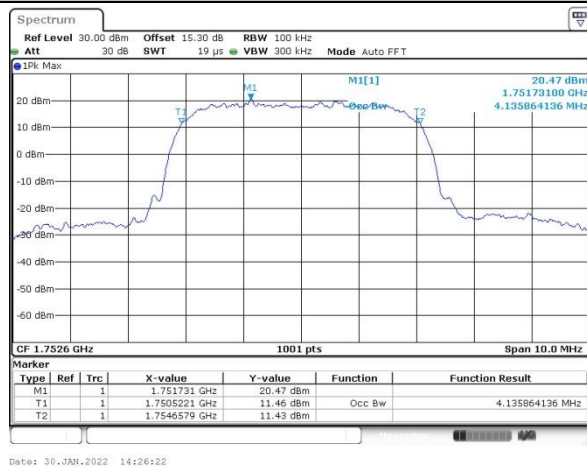
## Lowest Channel

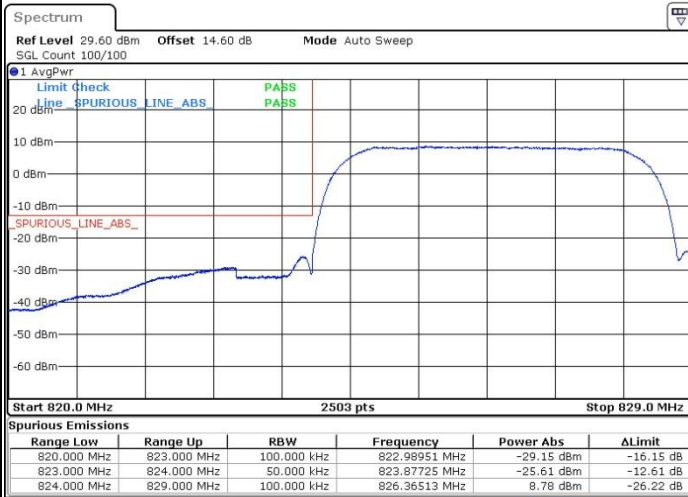
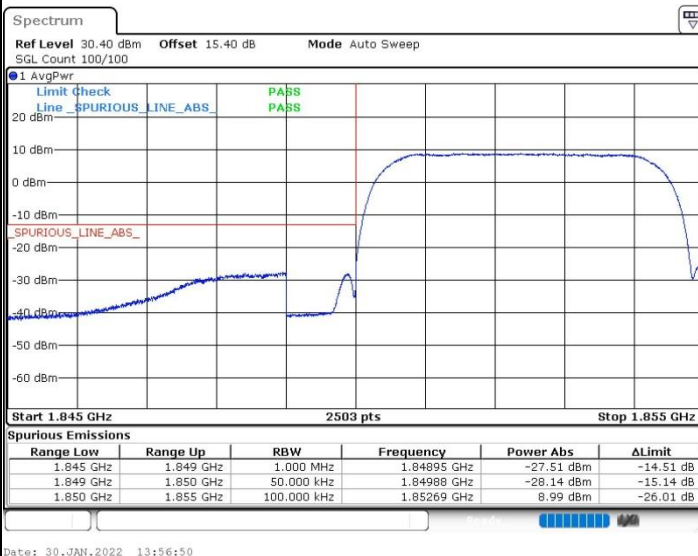
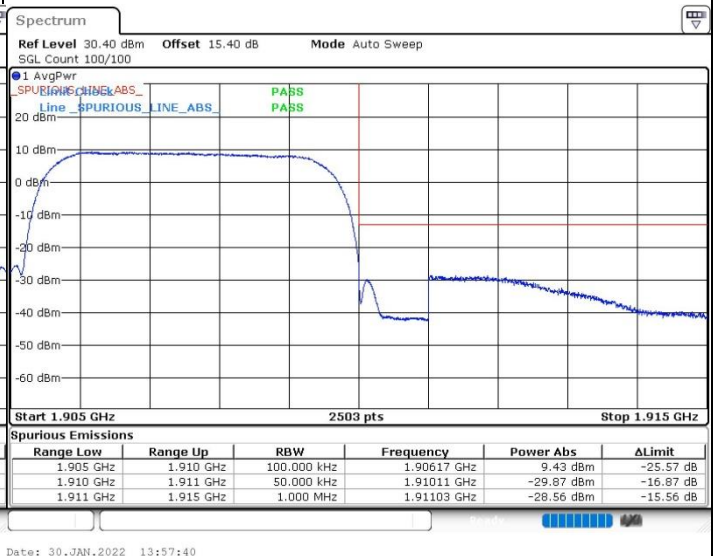


## Middle Channel



## Highest Channel

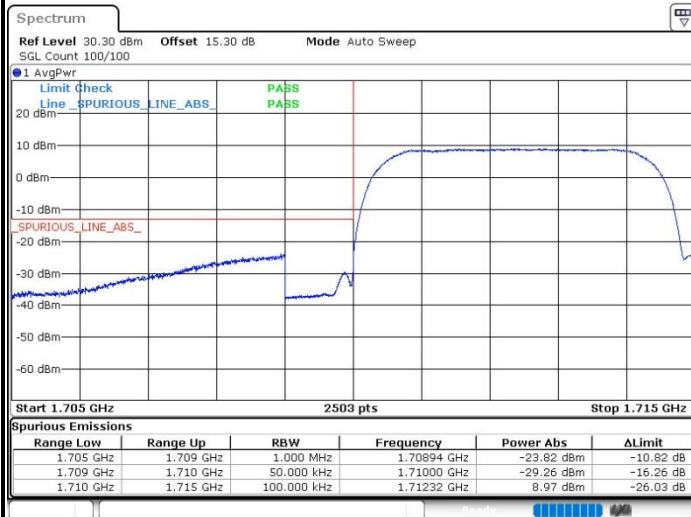


**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge****WCDMA Band II (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge**



## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



## Highest Band Edge

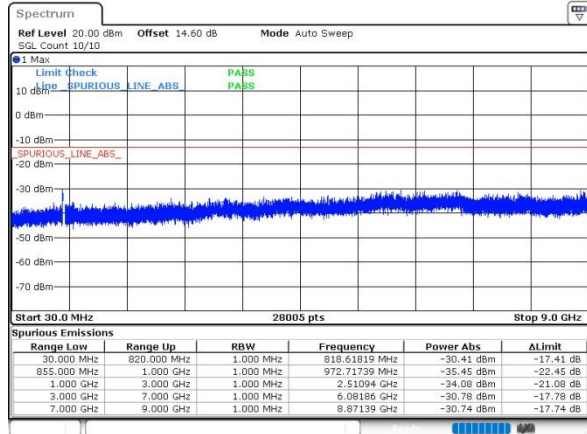




## Conducted Spurious Emission

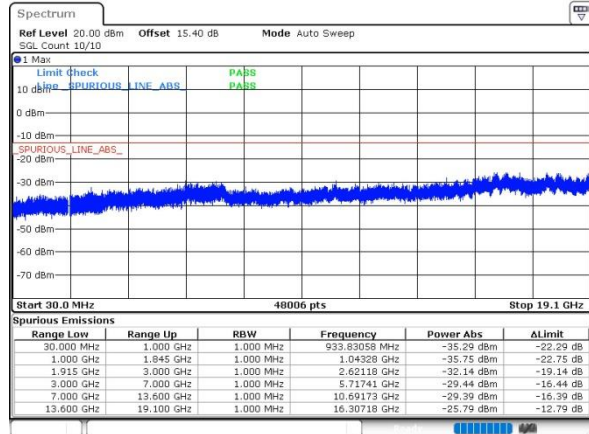
### WCDMA Band V (RMC 12.2Kbps)

#### Lowest Channel

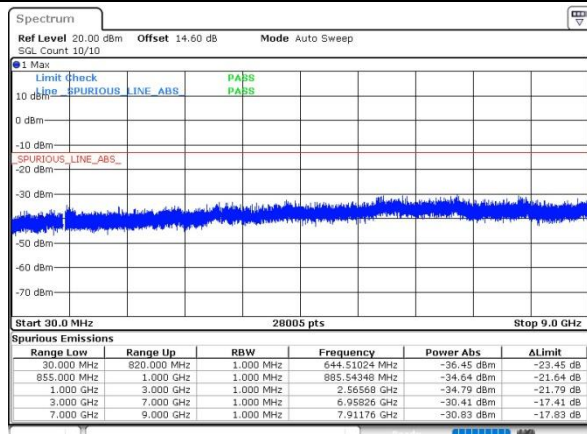


### WCDMA Band II (RMC 12.2Kbps)

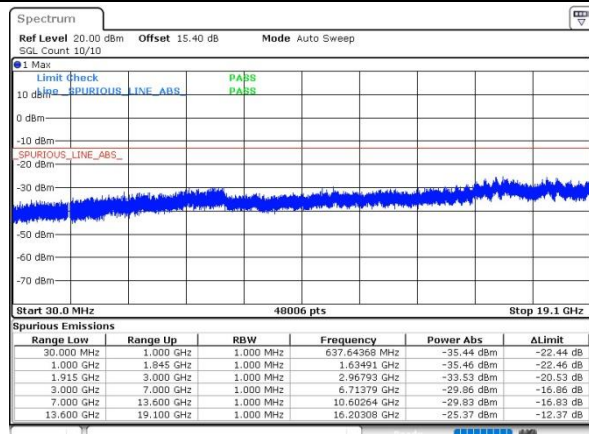
#### Lowest Channel



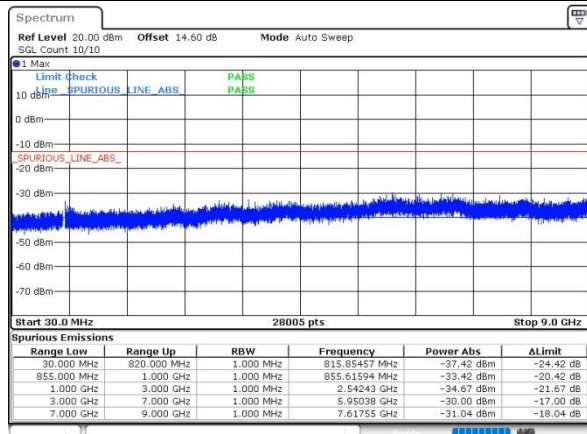
#### Middle Channel



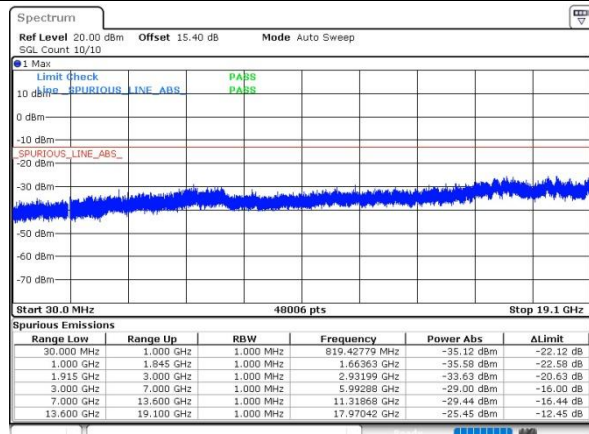
#### Middle Channel



#### Highest Channel



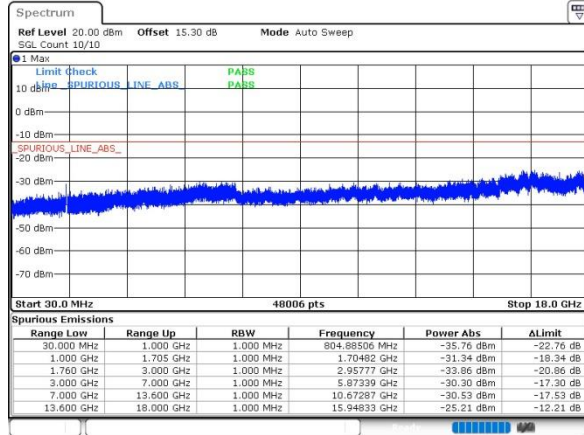
#### Highest Channel





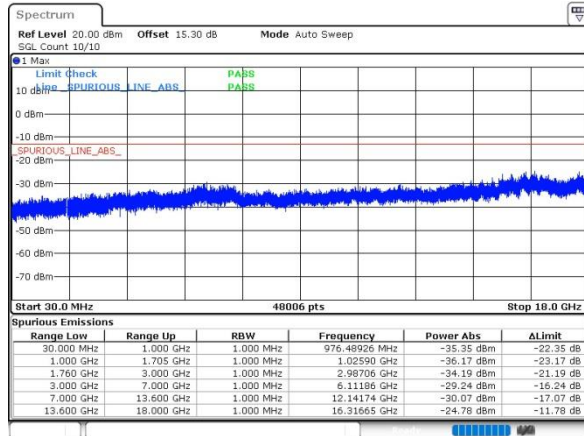
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



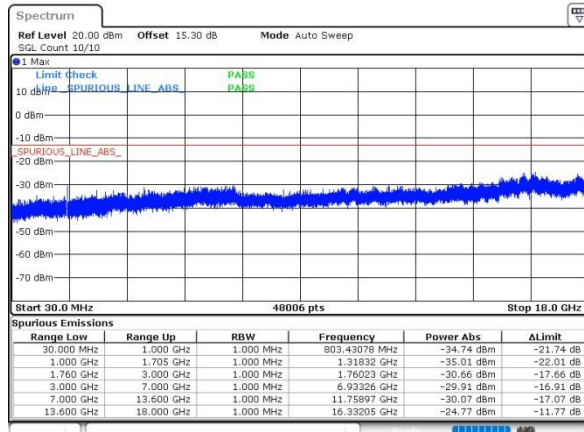
Date: 30.JAN.2022 14:29:18

#### Middle Channel



Date: 30.JAN.2022 14:30:03

#### Highest Channel



Date: 30.JAN.2022 14:31:54

**Frequency Stability**

| 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    | 0.0055                                     | PASS            |
| 40               | Normal Voltage    | 0.0341                                     |                 |
| 30               | Normal Voltage    | 0.0443                                     |                 |
| 20(Ref.)         | Normal Voltage    | 0.0000                                     |                 |
| 10               | Normal Voltage    | 0.0067                                     |                 |
| 0                | Normal Voltage    | 0.0311                                     |                 |
| -10              | Normal Voltage    | 0.0065                                     |                 |
| -20              | Normal Voltage    | 0.0148                                     |                 |
| -30              | Normal Voltage    | 0.0317                                     |                 |
| 20               | Maximum Voltage   | 0.0425                                     |                 |
| 20               | Normal Voltage    | 0.0163                                     |                 |
| 20               | Battery End Point | 0.0061                                     |                 |

| 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    | 0.0141                          | PASS             |
| 40               | Normal Voltage    | 0.0133                          |                  |
| 30               | Normal Voltage    | 0.0165                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0147                          |                  |
| 0                | Normal Voltage    | 0.0139                          |                  |
| -10              | Normal Voltage    | 0.0243                          |                  |
| -20              | Normal Voltage    | 0.0071                          |                  |
| -30              | Normal Voltage    | 0.0158                          |                  |
| 20               | Maximum Voltage   | 0.0176                          |                  |
| 20               | Normal Voltage    | 0.0196                          |                  |
| 20               | Battery End Point | 0.0018                          |                  |



| 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    | 0.0052                          | PASS             |
| 40               | Normal Voltage    | 0.0131                          |                  |
| 30               | Normal Voltage    | 0.0009                          |                  |
| 20(Ref.)         | Normal Voltage    | 0.0000                          |                  |
| 10               | Normal Voltage    | 0.0018                          |                  |
| 0                | Normal Voltage    | 0.0062                          |                  |
| -10              | Normal Voltage    | 0.0134                          |                  |
| -20              | Normal Voltage    | 0.0148                          |                  |
| -30              | Normal Voltage    | 0.0071                          |                  |
| 20               | Maximum Voltage   | 0.0022                          |                  |
| 20               | Normal Voltage    | 0.0026                          |                  |
| 20               | Battery End Point | 0.0131                          |                  |

**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 : | Chris Chen | Temperature :       | 22~23°C |
|                 |            | Relative Humidity : | 41~42%  |

Note: Pre-scanned harmonic for testing, we choose the worst antenna mode to test.

| GSM850 (GSM) for Ant.1 |                   |             |               |                   |                    |                      |                       |                    |
|------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -55.06      | -13           | -42.06            | -62.03             | 1.58                 | 10.70                 | H                  |
|                        | 2512              | -56.31      | -13           | -43.31            | -64.56             | 2.102                | 12.50                 | H                  |
|                        | 3344              | -60.06      | -13           | -47.06            | -68.95             | 2.856                | 13.90                 | H                  |
|                        | 1672              | -52.59      | -13           | -39.59            | -59.56             | 1.58                 | 10.70                 | V                  |
|                        | 2512              | -52.08      | -13           | -39.08            | -60.33             | 2.10                 | 12.50                 | V                  |
|                        | 3344              | -59.93      | -13           | -46.93            | -68.82             | 2.86                 | 13.90                 | V                  |

| GSM850 (EDGE class 8) for Ant.1 |                   |             |               |                   |                    |                      |                       |                    |
|---------------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -59.79      | -13           | -46.79            | -66.76             | 1.58                 | 10.70                 | H                  |
|                                 | 2512              | -57.20      | -13           | -44.20            | -65.45             | 2.102                | 12.50                 | H                  |
|                                 | 3344              | -59.05      | -13           | -46.05            | -67.94             | 2.856                | 13.90                 | H                  |
|                                 | 1672              | -56.73      | -13           | -43.73            | -63.70             | 1.58                 | 10.70                 | V                  |
|                                 | 2512              | -53.28      | -13           | -40.28            | -61.53             | 2.10                 | 12.50                 | V                  |
|                                 | 3344              | -59.98      | -13           | -46.98            | -68.87             | 2.86                 | 13.90                 | V                  |

| GSM1900 (GSM) for Ant.1 |                   |              |               |                   |                    |                      |                       |                    |
|-------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -52.45       | -13           | -39.45            | -64.71             | 2.64                 | 14.90                 | H                  |
|                         | 5640              | -52.73       | -13           | -39.73            | -64.59             | 2.94                 | 14.80                 | H                  |
|                         | 7524              | -52.55       | -13           | -39.55            | -62.32             | 3.39                 | 13.16                 | H                  |
|                         | 3759              | -53.69       | -13           | -40.69            | -65.95             | 2.64                 | 14.90                 | V                  |
|                         | 5640              | -55.45       | -13           | -42.45            | -67.31             | 2.94                 | 14.80                 | V                  |
|                         | 7524              | -52.65       | -13           | -39.65            | -62.42             | 3.39                 | 13.16                 | V                  |



| GSM1900 (EDGE class 8) for Ant.1 |                   |              |               |                   |                    |                      |                       |                    |
|----------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -56.02       | -13           | -43.02            | -68.28             | 2.64                 | 14.90                 | H                  |
|                                  | 5640              | -54.96       | -13           | -41.96            | -66.82             | 2.94                 | 14.80                 | H                  |
|                                  | 7515              | -52.39       | -13           | -39.39            | -62.16             | 3.39                 | 13.16                 | H                  |
|                                  | 3765              | -55.67       | -13           | -42.67            | -67.93             | 2.64                 | 14.90                 | V                  |
|                                  | 5640              | -54.74       | -13           | -41.74            | -66.60             | 2.94                 | 14.80                 | V                  |
|                                  | 7515              | -52.38       | -13           | -39.38            | -62.15             | 3.39                 | 13.16                 | V                  |

| WCDMA Band V(RMC 12.2Kbps) for Ant.1 |                   |             |               |                   |                    |                      |                       |                    |
|--------------------------------------|-------------------|-------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -63.12      | -13           | -50.12            | -70.09             | 1.58                 | 10.70                 | H                  |
|                                      | 2510              | -59.43      | -13           | -46.43            | -67.68             | 2.102                | 12.50                 | H                  |
|                                      | 3348              | -58.83      | -13           | -45.83            | -67.72             | 2.856                | 13.90                 | H                  |
|                                      | 1672              | -62.66      | -13           | -49.66            | -69.63             | 1.58                 | 10.70                 | V                  |
|                                      | 2510              | -58.75      | -13           | -45.75            | -67.00             | 2.10                 | 12.50                 | V                  |
|                                      | 3348              | -59.78      | -13           | -46.78            | -68.67             | 2.86                 | 13.90                 | V                  |

| WCDMA Band II(RMC 12.2Kbps) for Ant.1 |                   |              |               |                   |                    |                      |                       |                    |
|---------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -51.81       | -13           | -38.81            | -64.07             | 2.64                 | 14.90                 | H                  |
|                                       | 5640              | -54.00       | -13           | -41.00            | -65.86             | 2.94                 | 14.80                 | H                  |
|                                       | 7515              | -51.79       | -13           | -38.79            | -61.56             | 3.39                 | 13.16                 | H                  |
|                                       | 3765              | -52.09       | -13           | -39.09            | -64.35             | 2.64                 | 14.90                 | V                  |
|                                       | 5640              | -54.65       | -13           | -41.65            | -66.51             | 2.94                 | 14.80                 | V                  |
|                                       | 7515              | -52.04       | -13           | -39.04            | -61.81             | 3.39                 | 13.16                 | V                  |

| WCDMA Band IV(RMC 12.2Kbps) for Ant.1 |                   |              |               |                   |                    |                      |                       |                    |
|---------------------------------------|-------------------|--------------|---------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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              | -56.77       | -13           | -43.77            | -67.51             | 2.604                | 13.34                 | H                  |
|                                       | 5205              | -52.78       | -13           | -39.78            | -63.29             | 3.011                | 13.52                 | H                  |
|                                       | 6930              | -54.45       | -13           | -41.45            | -64.65             | 3.271                | 13.47                 | H                  |
|                                       | 3465              | -56.66       | -13           | -43.66            | -67.40             | 2.604                | 13.34                 | V                  |
|                                       | 5205              | -54.34       | -13           | -41.34            | -64.85             | 3.011                | 13.52                 | V                  |
|                                       | 6930              | -54.22       | -13           | -41.22            | -64.42             | 3.271                | 13.47                 | V                  |

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