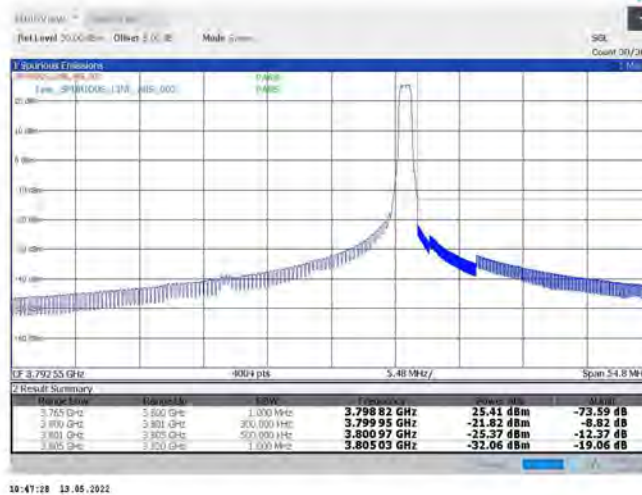


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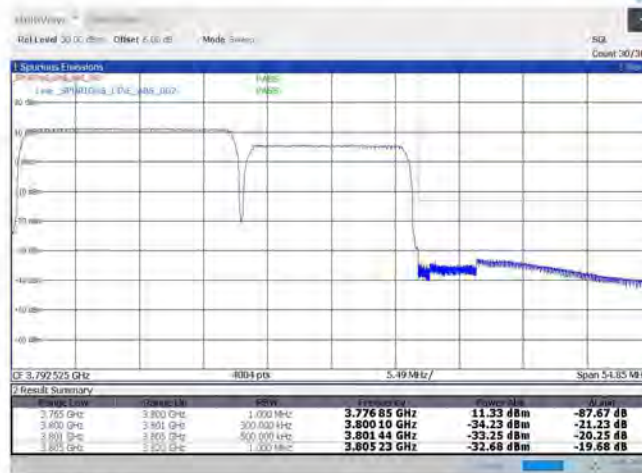
Page: 71 of 92

## 43-43-20MHz-15MHz-QPSK-QPSK-45341-45512-0RB#0-1RB#74



10:47:28 13.05.2022

## 43-43-20MHz-15MHz-QPSK-QPSK-45341-45512-100RB#0-75RB#0



10:49:04 13.05.2022



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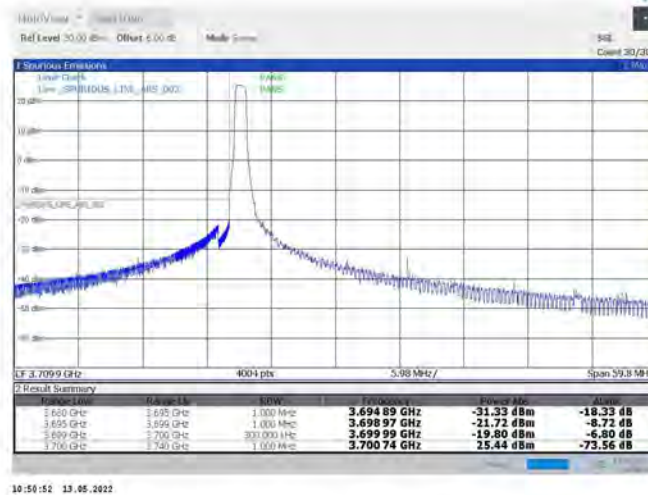
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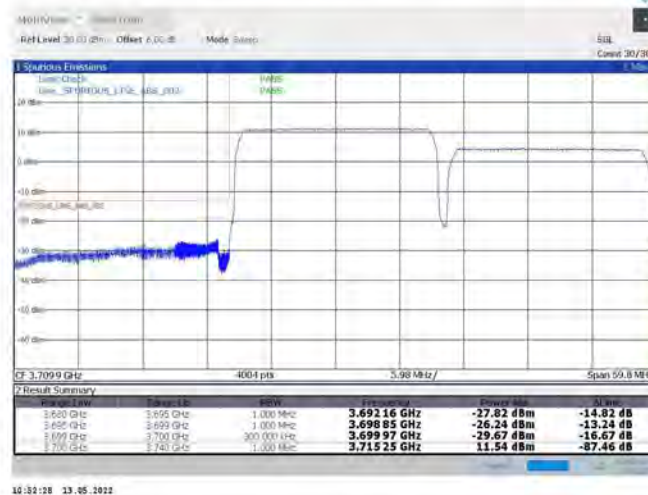
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### 43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-1RB#0-0RB#0



### 43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-100RB#0-100RB#0



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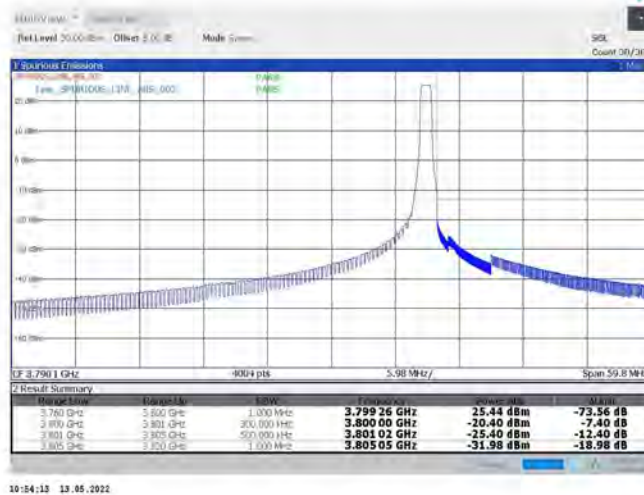
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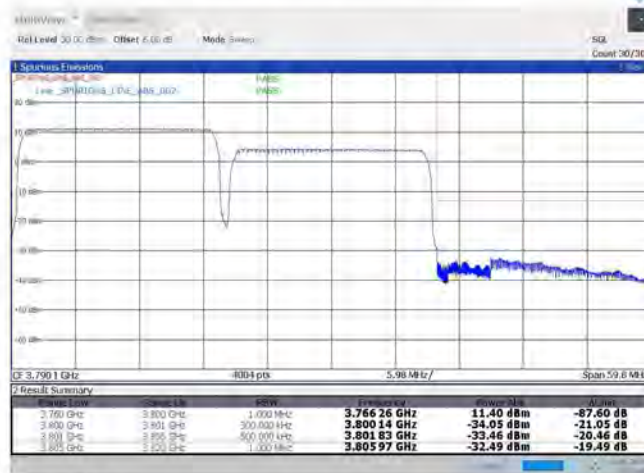
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### 43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-0RB#0-1RB#99



10:34:13 13.05.2022

### 43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-100RB#0-100RB#0



10:55:49 13.05.2022



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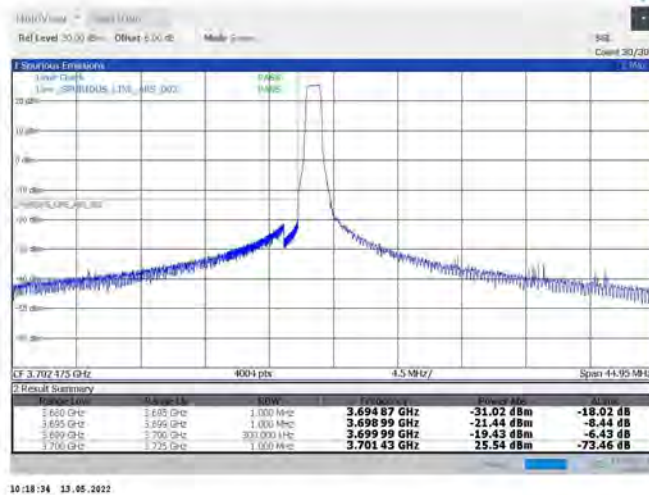
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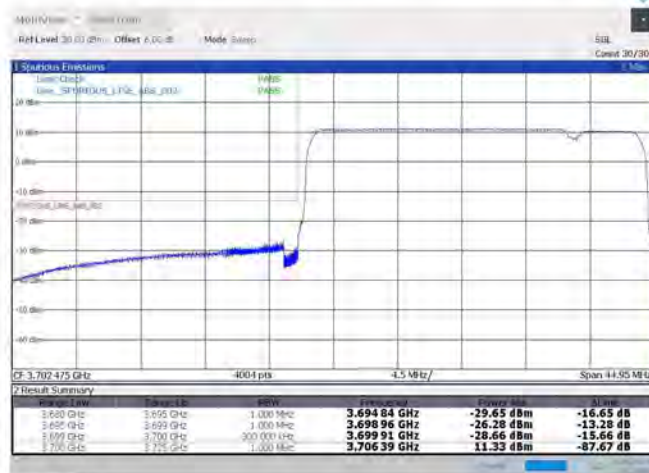
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### 43-43-20MHz-5MHz-QPSK-QPSK-44690-44807-1RB#0-0RB#0



10:18:34 13.05.2022

### 43-43-20MHz-5MHz-QPSK-QPSK-44690-44807-100RB#0-25RB#0



10:20:09 13.05.2022



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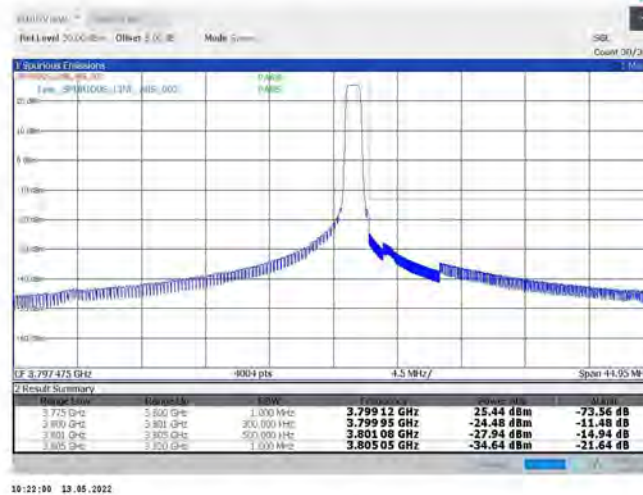
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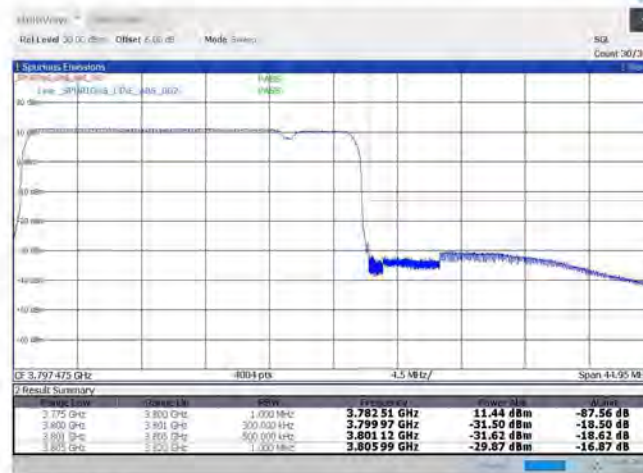
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### 43-43-20MHz-5MHz-QPSK-QPSK-45440-45557-0RB#0-1RB#24



10:22:00 13.05.2022

### 43-43-20MHz-5MHz-QPSK-QPSK-45440-45557-100RB#0-25RB#0



10:23:36 13.05.2022



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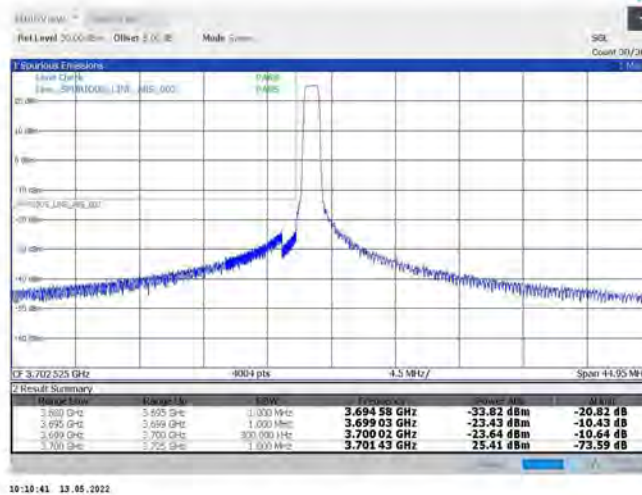
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### 43-43-5MHz-20MHz-QPSK-QPSK-44623-44740-1RB#0-0RB#0



10:10:41 13.05.2022

### 43-43-5MHz-20MHz-QPSK-QPSK-44623-44740-25RB#0-100RB#0



10:12:16 13.05.2022



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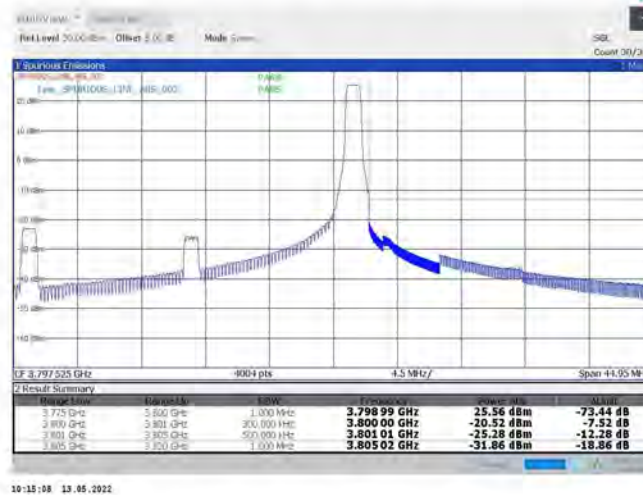
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## 43-43-5MHz-20MHz-QPSK-QPSK-45373-45490-0RB#0-1RB#99



10:15:58 13.05.2022

## 43-43-5MHz-20MHz-QPSK-QPSK-45373-45490-25RB#0-100RB#0



10:16:43 13.05.2022



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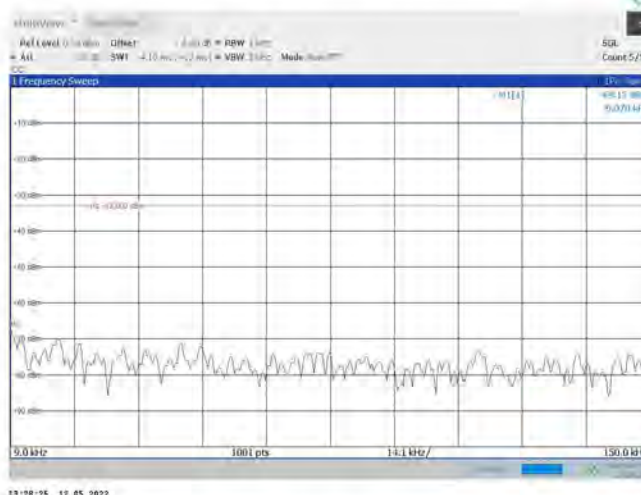
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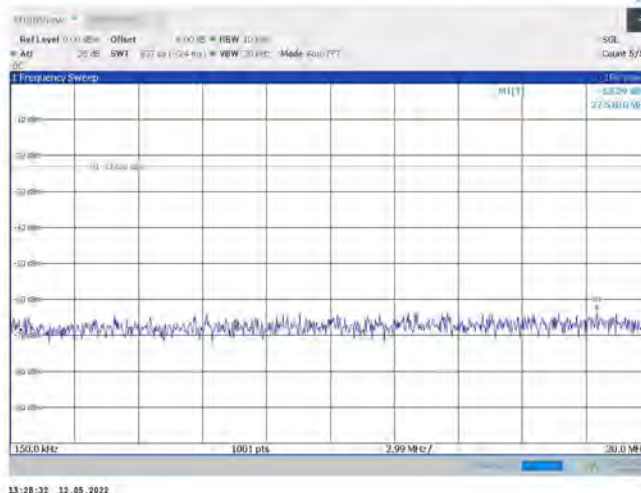
## Conducted Spurious Emission

### Test Graphs

43-43-20MHz-20MHz-QPSK-QPSK-44491-44689-1RB#0-0RB#0-0.009~0.15MHz



43-43-20MHz-20MHz-QPSK-QPSK-44491-44689-1RB#0-0RB#0-0.15~30MHz



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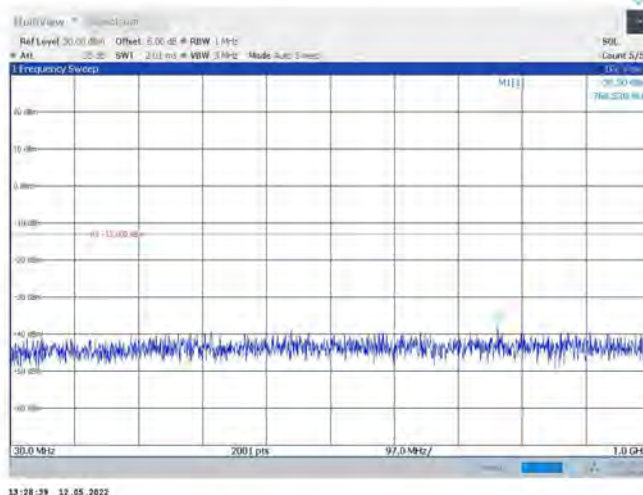
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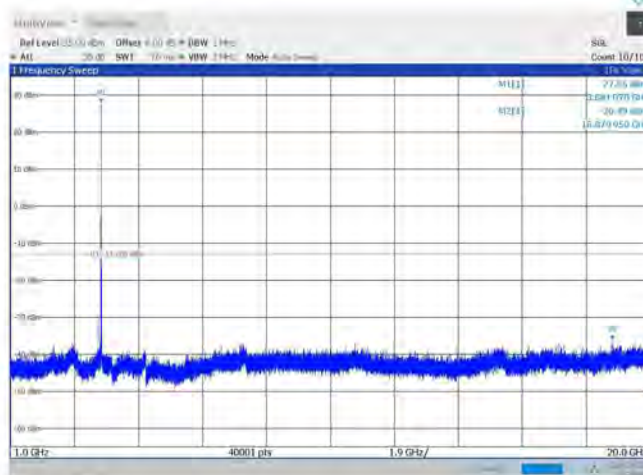
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43-43-20MHz-20MHz-QPSK-QPSK-44491-44689-1RB#0-0RB#0-1000~1000MHz



13:28:39 12.05.2022

43-43-20MHz-20MHz-QPSK-QPSK-44491-44689-1RB#0-0RB#0-1000~20000MHz



13:28:44 12.05.2022



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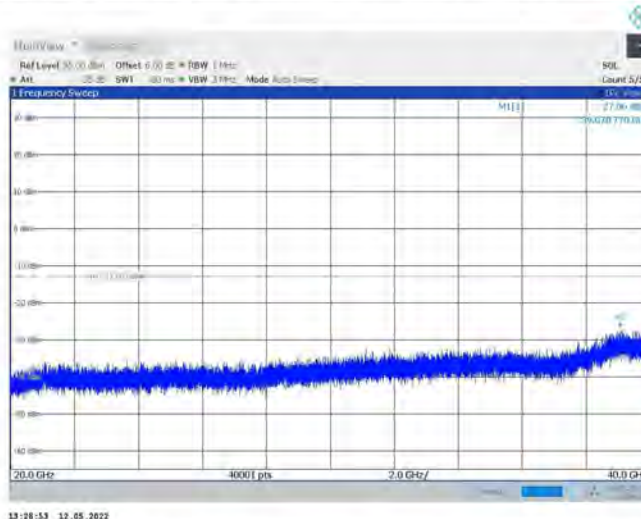
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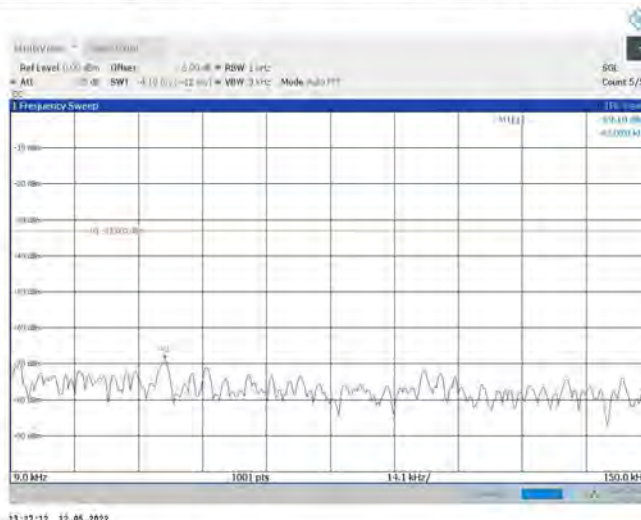
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43-43-20MHz-20MHz-QPSK-QPSK-44491-44689-1RB#0-0RB#0-20000~40000MHz



43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-1RB#0-0RB#0-0.009~0.15MHz



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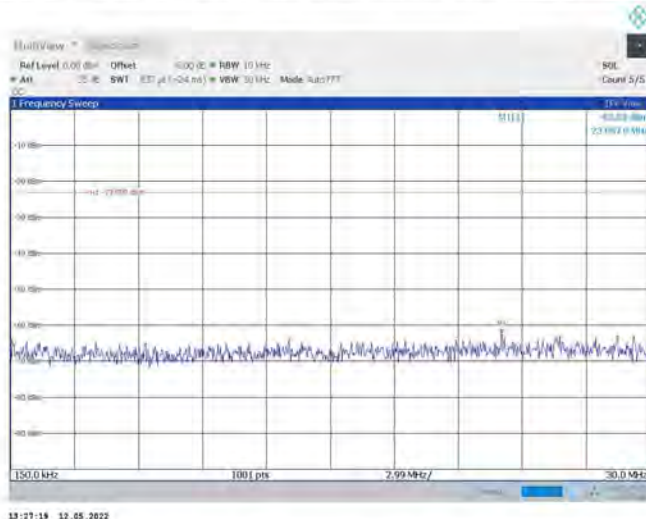
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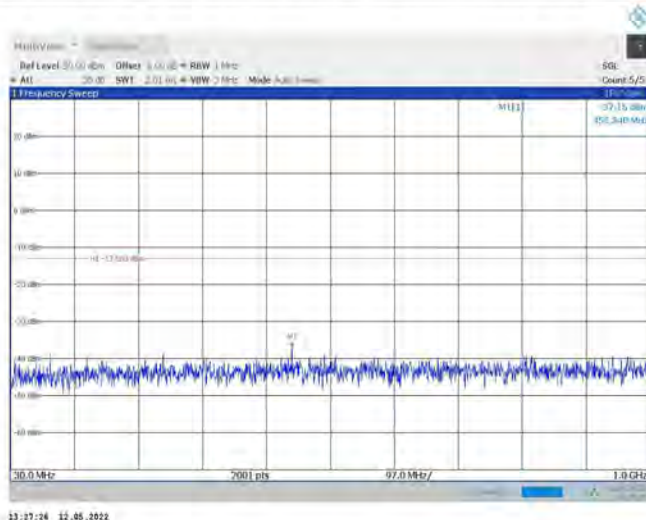
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43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-1RB#0-0RB#0-0.15~30MHz



43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-1RB#0-0RB#0-30~1000MHz



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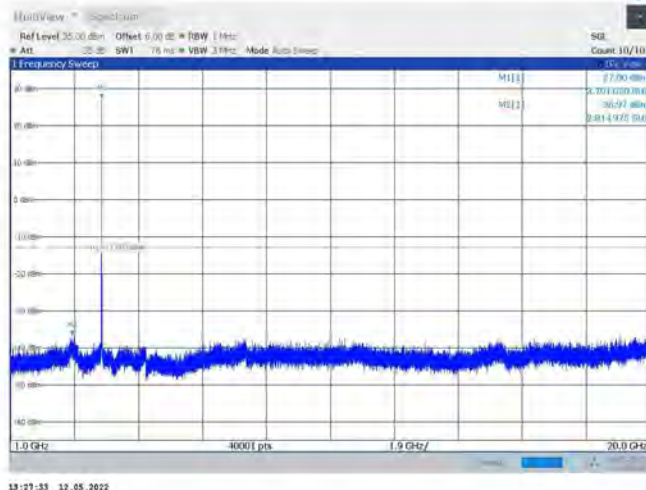
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Report No.: SEWM2304000122RG01

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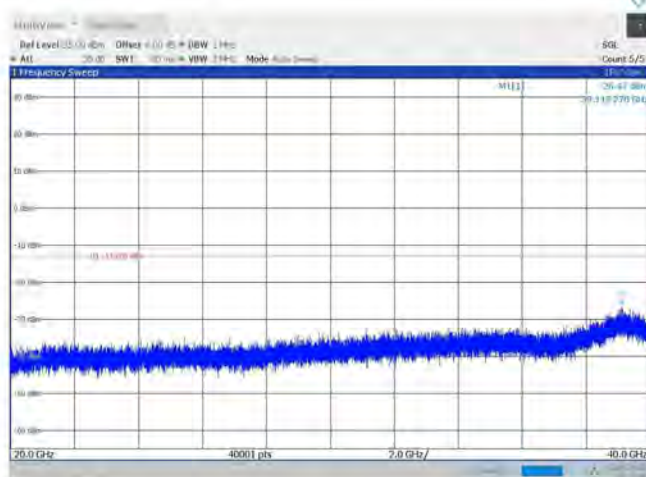
Page: 82 of 92

43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-1RB#0-0RB#0-1000~20000MHz



13:27:33 12.05.2022

43-43-20MHz-20MHz-QPSK-QPSK-44690-44888-1RB#0-0RB#0-20000~40000MHz



13:27:40 12.05.2022



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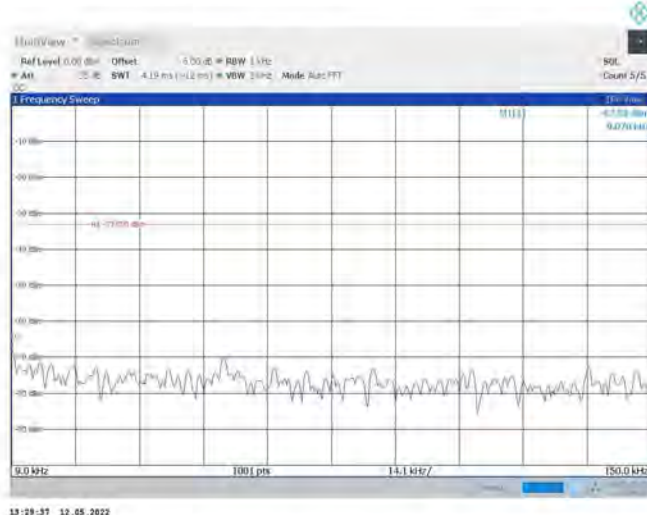
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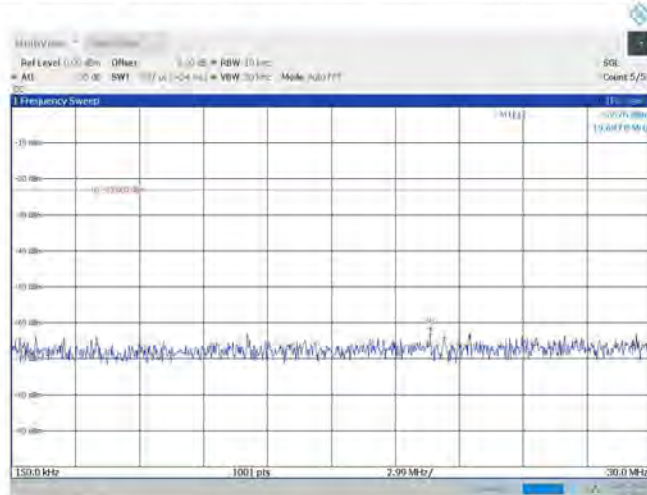
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43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-1RB#0-0RB#0-0.009~0.15MHz



13:29:37 12.05.2022

43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-1RB#0-0RB#0-0.15~30MHz



13:29:44 12.05.2022



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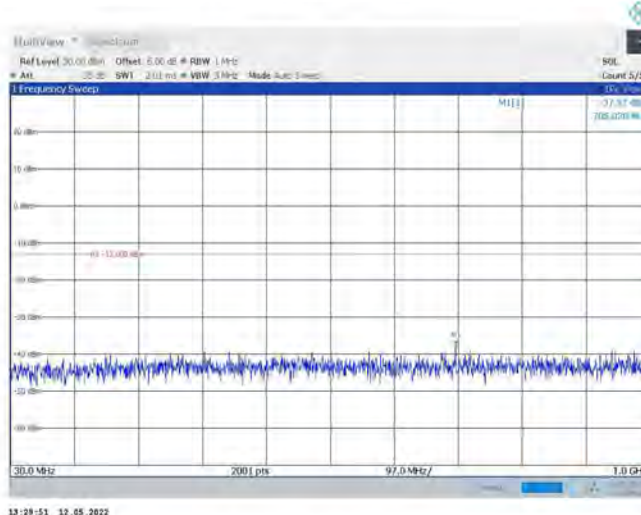
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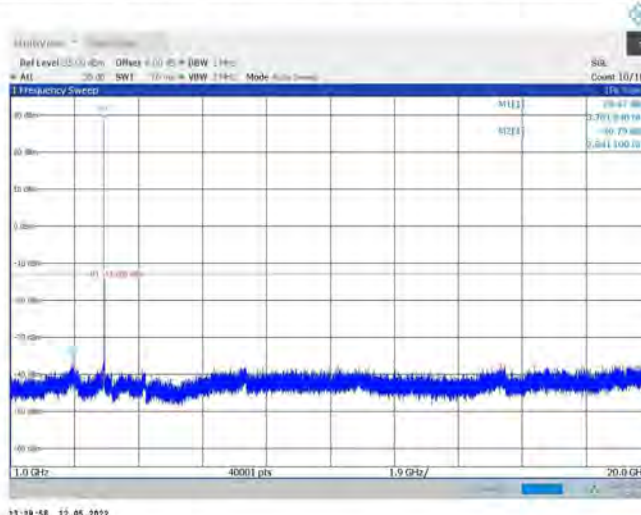
Rev.: 01

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43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-1RB#0-0RB#0-30~1000MHz



43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-1RB#0-0RB#0-1000~20000MHz



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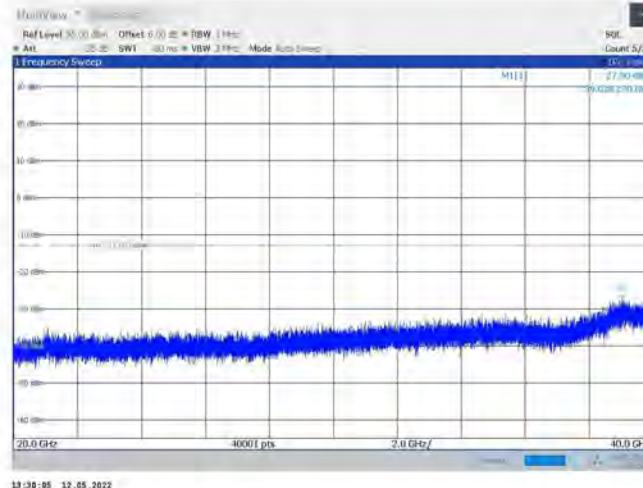
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43-43-20MHz-20MHz-QPSK-QPSK-45292-45490-1RB#0-0RB#0-20000~40000MHz



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## Field Strength of Spurious Radiation

**Test Band = UL CA Band 43C 3700M-3800M\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 6418.5          | 53.36          | -102.57     | -49.21      | -13.00      | 36.21       | 263         | 186       | Horizontal |
| 2               | 7402.18         | 48.67          | -100.80     | -52.13      | -13.00      | 39.13       | 251         | 14        | Horizontal |
| 3               | 9283.8333       | 50.22          | -95.05      | -44.83      | -13.00      | 31.83       | 142         | 282       | Horizontal |
| 4               | 11103.27        | 43.25          | -90.92      | -47.67      | -13.00      | 34.67       | 284         | 6         | Horizontal |
| 5               | 14804.36        | 41.50          | -89.75      | -48.25      | -13.00      | 35.25       | 176         | 267       | Horizontal |
| 6               | 17847.1667      | 42.46          | -84.29      | -41.83      | -13.00      | 28.83       | 222         | 0         | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 6424.3333       | 52.84          | -102.58     | -49.74      | -13.00      | 36.74       | 175         | 172       | Vertical |
| 2               | 7402            | 55.79          | -100.80     | -45.01      | -13.00      | 32.01       | 263         | 39        | Vertical |
| 3               | 9318.8333       | 50.04          | -94.94      | -44.90      | -13.00      | 31.90       | 254         | 93        | Vertical |
| 4               | 11103.27        | 42.66          | -90.92      | -48.26      | -13.00      | 35.26       | 184         | 25        | Vertical |
| 5               | 13028.8333      | 45.94          | -90.44      | -44.50      | -13.00      | 31.50       | 177         | 268       | Vertical |
| 6               | 14804.36        | 41.44          | -89.75      | -48.31      | -13.00      | 35.31       | 156         | 93        | Vertical |



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**Test Band = UL CA Band 43C 3700M-3800M\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5915.6667       | 52.62          | -104.31     | -51.69      | -13.00      | 38.69       | 263         | 1         | Horizontal |
| 2               | 7462.38         | 49.76          | -100.52     | -50.76      | -13.00      | 37.76       | 284         | 308       | Horizontal |
| 3               | 9297.8333       | 49.98          | -95.08      | -45.10      | -13.00      | 32.10       | 176         | 215       | Horizontal |
| 4               | 11193.57        | 43.32          | -90.93      | -47.61      | -13.00      | 34.61       | 251         | 215       | Horizontal |
| 5               | 14924.76        | 41.36          | -90.22      | -48.86      | -13.00      | 35.86       | 142         | 334       | Horizontal |
| 6               | 17863.5         | 43.72          | -84.28      | -40.56      | -13.00      | 27.56       | 288         | 321       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 6158.3333       | 51.18          | -103.08     | -51.90      | -13.00      | 38.90       | 263         | 227       | Vertical |
| 2               | 7462.38         | 54.30          | -100.52     | -46.22      | -13.00      | 33.22       | 285         | 50        | Vertical |
| 3               | 9327            | 49.72          | -94.88      | -45.16      | -13.00      | 32.16       | 265         | 347       | Vertical |
| 4               | 11193.57        | 44.42          | -90.93      | -46.51      | -13.00      | 33.51       | 241         | 347       | Vertical |
| 5               | 14924.76        | 41.70          | -90.22      | -48.52      | -13.00      | 35.52       | 177         | 38        | Vertical |
| 6               | 17864.6667      | 42.58          | -84.28      | -41.70      | -13.00      | 28.70       | 186         | 50        | Vertical |



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**Test Band = UL CA Band 43C 3700M-3800M\_ TM1**
**Test Channel = High Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 6417.3333       | 52.52          | -102.57     | -50.05      | -13.00      | 37.05       | 142         | 199       | Horizontal |
| 2               | 7522.58         | 49.86          | -100.22     | -50.36      | -13.00      | 37.36       | 286         | 347       | Horizontal |
| 3               | 9315.3333       | 49.72          | -94.97      | -45.25      | -13.00      | 32.25       | 255         | 174       | Horizontal |
| 4               | 11283.87        | 42.74          | -91.12      | -48.38      | -13.00      | 35.38       | 144         | 357       | Horizontal |
| 5               | 15045.16        | 42.57          | -90.30      | -47.73      | -13.00      | 34.73       | 163         | 279       | Horizontal |
| 6               | 17846           | 43.07          | -84.29      | -41.22      | -13.00      | 28.22       | 255         | 266       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 6670.5          | 52.93          | -101.95     | -49.02      | -13.00      | 36.02       | 263         | 52        | Vertical |
| 2               | 7522.58         | 54.09          | -100.22     | -46.13      | -13.00      | 33.13       | 285         | 320       | Vertical |
| 3               | 9308.3333       | 49.52          | -95.02      | -45.50      | -13.00      | 32.50       | 263         | 158       | Vertical |
| 4               | 11283.87        | 44.17          | -91.12      | -46.95      | -13.00      | 33.95       | 255         | 0         | Vertical |
| 5               | 15045.16        | 44.17          | -90.30      | -46.13      | -13.00      | 33.13       | 144         | 357       | Vertical |
| 6               | 17863.5         | 43.30          | -84.28      | -40.98      | -13.00      | 27.98       | 185         | 64        | Vertical |



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### Test on the worst case:

**Test Band = LTE UL CA Band 43C 3700M-3800M\_ TM1**
**Test Channel = Low Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 9433.9375       | 38.03          | -37.80      | 38.56    | -56.48      | -13.00      | 43.48       | 296         | 359       | Horizontal |
| 2               | 13068.8958      | 34.23          | -34.70      | 39.64    | -56.09      | -13.00      | 43.09       | 265         | 347       | Horizontal |
| 3               | 17360.3125      | 32.34          | -31.78      | 40.04    | -54.65      | -13.00      | 41.65       | 284         | 130       | Horizontal |
| 4               | 7402.18         | 41.46          | -41.98      | 36.44    | -59.34      | -13.00      | 46.34       | 142         | 204       | Horizontal |
| 5               | 11103.27        | 32.27          | -35.16      | 39.50    | -58.65      | -13.00      | 45.65       | 263         | 130       | Horizontal |
| 6               | 14804.36        | 31.20          | -33.88      | 39.40    | -58.55      | -13.00      | 45.55       | 228         | 147       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 9322.2917       | 38.15          | -38.23      | 38.57    | -56.77      | -13.00      | 43.77       | 196         | 3         | Vertical |
| 2               | 13074.1667      | 34.02          | -34.68      | 39.64    | -56.28      | -13.00      | 43.28       | 265         | 360       | Vertical |
| 3               | 16929.5417      | 33.26          | -31.94      | 38.55    | -55.39      | -13.00      | 42.39       | 284         | 354       | Vertical |
| 4               | 7402.18         | 41.35          | -41.98      | 36.44    | -59.45      | -13.00      | 46.45       | 142         | 180       | Vertical |
| 5               | 11103.27        | 32.64          | -35.16      | 39.50    | -58.28      | -13.00      | 45.28       | 263         | 310       | Vertical |
| 6               | 14804.36        | 31.03          | -33.88      | 39.40    | -58.72      | -13.00      | 45.72       | 228         | 3         | Vertical |



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润恒路1号的6号厂房南楼 邮编: 215000

t: (86-512) 62992980 www.sgs.com.cn  
 t: (86-512) 62992980 sgs.china@sgs.com

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**Test Band = LTE UL CA Band 43C 3700M-3800M\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 9583.4375       | 37.53          | -37.83      | 38.54    | -57.02      | -13.00      | 44.02       | 296         | 258       | Horizontal |
| 2               | 13313.2708      | 34.12          | -35.09      | 39.79    | -56.44      | -13.00      | 43.44       | 265         | 111       | Horizontal |
| 3               | 17060.3542      | 33.58          | -32.23      | 38.84    | -55.07      | -13.00      | 42.07       | 284         | 220       | Horizontal |
| 4               | 7482.18         | 39.40          | -41.66      | 36.49    | -61.03      | -13.00      | 48.03       | 142         | 330       | Horizontal |
| 5               | 11223.27        | 32.75          | -35.10      | 39.38    | -58.23      | -13.00      | 45.23       | 263         | 360       | Horizontal |
| 6               | 14964.36        | 31.25          | -34.32      | 39.24    | -59.09      | -13.00      | 46.09       | 225         | 130       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 9433.4583       | 37.82          | -37.80      | 38.56    | -56.68      | -13.00      | 43.68       | 102         | 360       | Vertical |
| 2               | 12705.6875      | 34.71          | -35.36      | 39.31    | -56.60      | -13.00      | 43.60       | 265         | 92        | Vertical |
| 3               | 17277.4167      | 33.09          | -31.82      | 39.71    | -54.28      | -13.00      | 41.28       | 254         | 279       | Vertical |
| 4               | 7482.18         | 39.75          | -41.66      | 36.49    | -60.68      | -13.00      | 47.68       | 142         | 187       | Vertical |
| 5               | 11223.27        | 33.12          | -35.10      | 39.38    | -57.86      | -13.00      | 44.86       | 263         | 16        | Vertical |
| 6               | 14964.36        | 31.57          | -34.32      | 39.24    | -58.77      | -13.00      | 45.77       | 221         | 222       | Vertical |



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t: (86-512) 62992980 www.sgs.com.cn  
 t: (86-512) 62992980 sgs.china@sgs.com

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**Test Band = LTE UL CA Band 43C 3700M-3800M\_ TM1**
**Test Channel = High Channel**
**Final Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 9569.5417       | 37.90          | -37.88      | 38.54    | -56.69      | -13.00      | 43.69       | 296         | 205       | Horizontal |
| 2   | 13084.7083      | 34.24          | -34.66      | 39.65    | -56.03      | -13.00      | 43.03       | 265         | 316       | Horizontal |
| 3   | 17819.8333      | 31.80          | -30.94      | 41.88    | -52.52      | -13.00      | 39.52       | 284         | 316       | Horizontal |
| 4   | 7562.18         | 37.74          | -41.37      | 36.62    | -62.27      | -13.00      | 49.27       | 142         | 316       | Horizontal |
| 5   | 11343.27        | 32.79          | -35.42      | 39.26    | -58.63      | -13.00      | 45.63       | 263         | 93        | Horizontal |
| 6   | 15124.36        | 31.79          | -33.83      | 39.04    | -58.27      | -13.00      | 45.27       | 224         | 167       | Horizontal |

**Final Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 9411.4167       | 37.08          | -37.70      | 38.56    | -57.32      | -13.00      | 44.32       | 196         | 332       | Vertical |
| 2   | 14190.1458      | 33.80          | -34.86      | 40.01    | -56.31      | -13.00      | 43.31       | 265         | 132       | Vertical |
| 3   | 17942.5         | 33.01          | -31.24      | 42.37    | -51.12      | -13.00      | 38.12       | 254         | 277       | Vertical |
| 4   | 7562.18         | 36.54          | -41.37      | 36.62    | -63.47      | -13.00      | 50.47       | 102         | 96        | Vertical |
| 5   | 11343.27        | 32.62          | -35.42      | 39.26    | -58.80      | -13.00      | 45.80       | 254         | 151       | Vertical |
| 6   | 15124.36        | 31.89          | -33.83      | 39.04    | -58.17      | -13.00      | 45.17       | 146         | 356       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com

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## Frequency Stability

### Test Result

| Band  | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | VH            | NT               | 31.50          | 0.008536        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | VL            | NT               | 37.10          | 0.010054        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | VN            | NT               | 36.90          | 0.010000        | PASS    |

| Band  | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | 50               | 40.60          | 0.011002        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | 40               | 44.00          | 0.011924        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | 30               | 44.60          | 0.012086        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | 20               | 40.70          | 0.011030        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | 10               | 50.80          | 0.013767        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | 0                | 45.70          | 0.012384        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | -10              | 43.50          | 0.011788        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | -20              | 38.10          | 0.010325        | PASS    |
| 43-43 | 20MHz-20MHz | QPSK-QPSK  | 44491-44689 | 100RB#0-100RB#0 | NV            | -30              | 40.80          | 0.011057        | PASS    |

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