



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

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FCC ID: OJFDHRU-G2-25

# Appendix -

## Test Data and Result for report

### GZCR240300025502



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Guangzhou Branch, EMC Laboratory

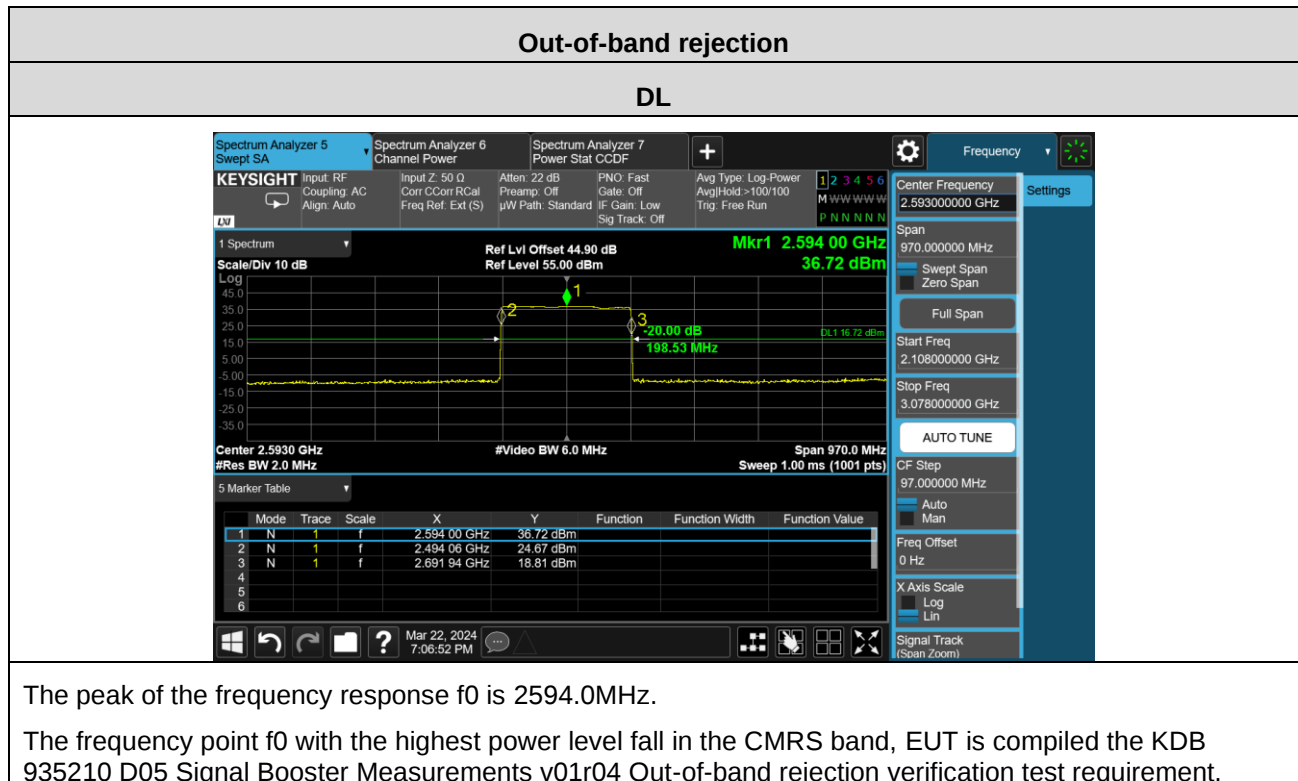
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Remark: Manufacture declared the product support 2X2 MIMO with identical PCB layout/component use/Tune up that make sure each antenna port with identical RF output, so the test only performed at one of the antenna ports in this report.

### 1 Out-of-band rejection



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### 2 Input versus Output comparison

| Occupied Bandwidth                                                                                                                                                                                                                            |                |              |               |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|---------------|---------|
| Test Path                                                                                                                                                                                                                                     | Test Signal    | Test Channel | Signal Level  | Verdict |
| DL                                                                                                                                                                                                                                            | 4.1MHz<br>AWGN | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                                               |                |              | 3dB above AGC | PASS    |
|                                                                                                                                                                                                                                               | 100MHz<br>AWGN | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                                               |                |              | 3dB above AGC | PASS    |
|                                                                                                                                                                                                                                               | GSM            | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                                               |                |              | 3dB above AGC | PASS    |
| Remark:<br>Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement. |                |              |               |         |



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Guangzhou Branch Test Report EMC Laboratory

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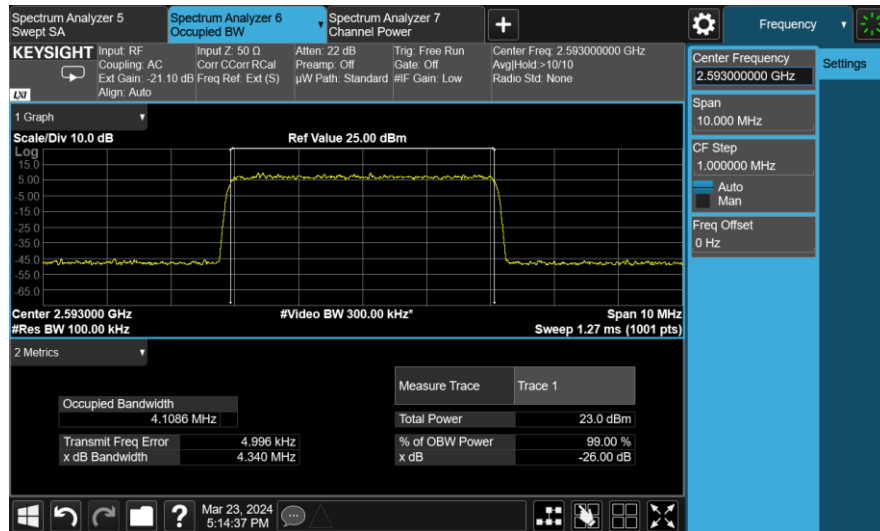
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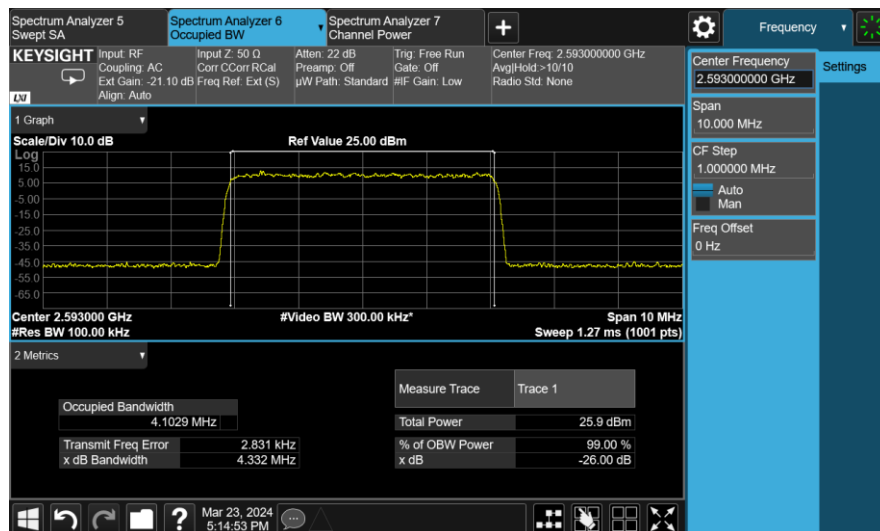
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### 99% OBW

#### DL\_4.1MHz AWGN\_MCH\_Input\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Input\_3dB above AGC

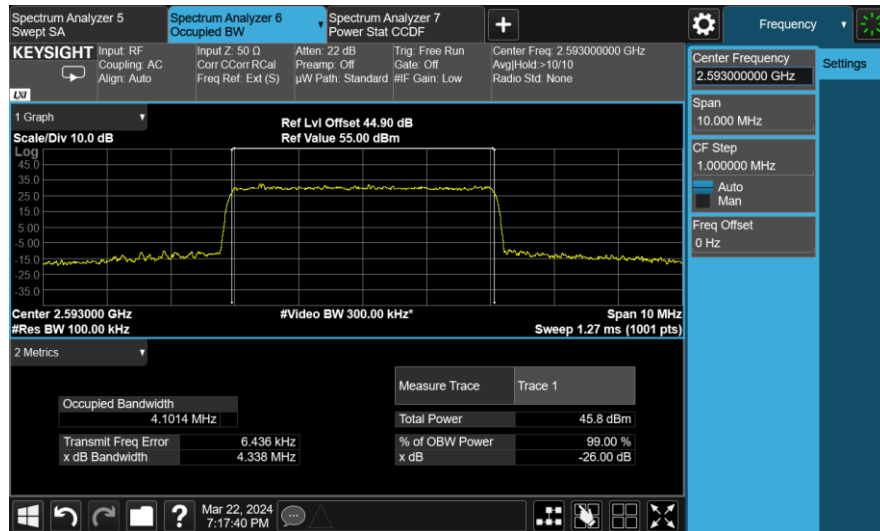


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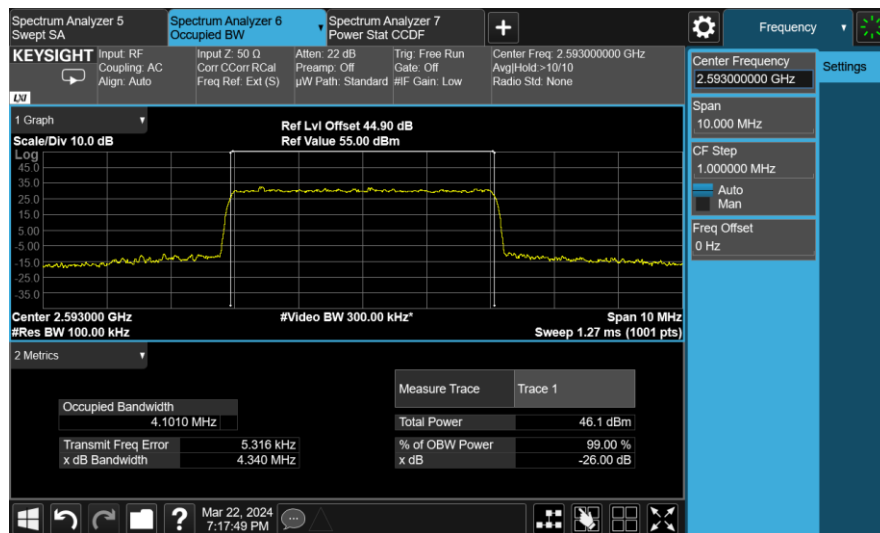
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### 99% OBW

#### DL\_4.1MHz AWGN\_MCH\_Output\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Output\_3dB above AGC

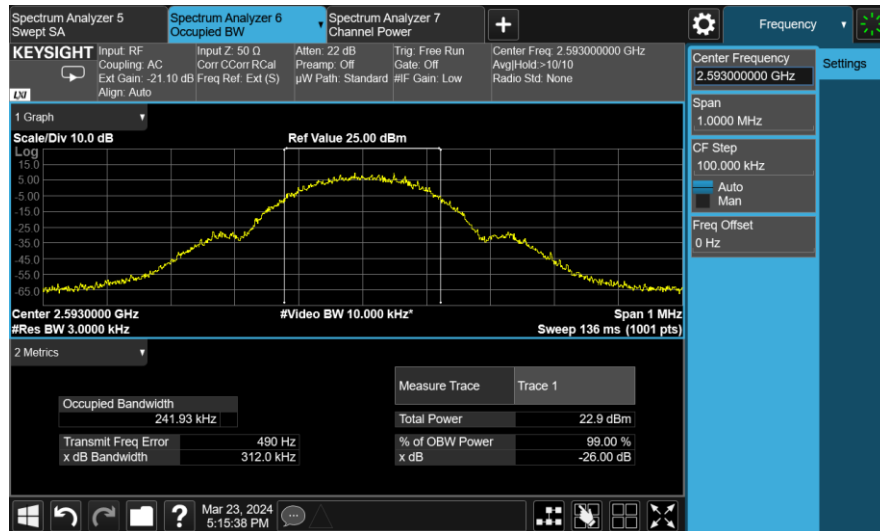


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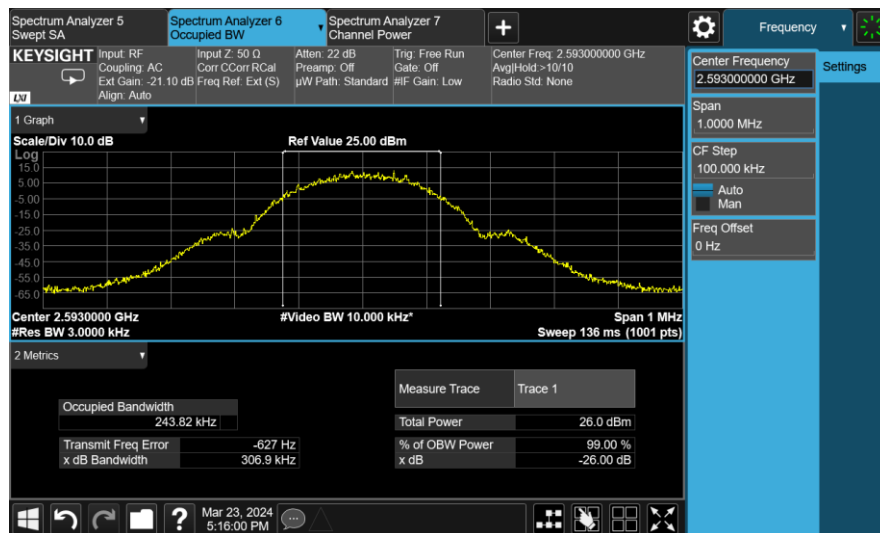
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### 99% OBW

### DL\_GSM\_MCH\_Input\_Pre-AGC



### DL\_GSM\_MCH\_Input\_3dB above AGC

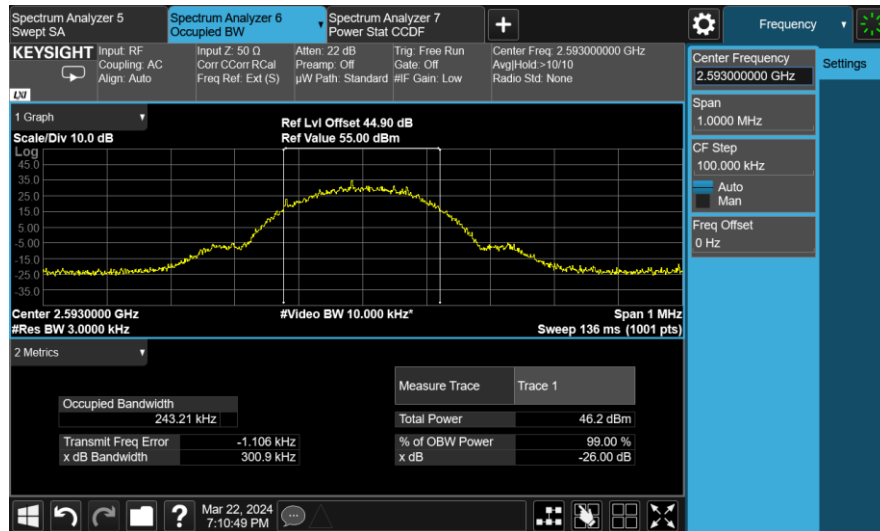


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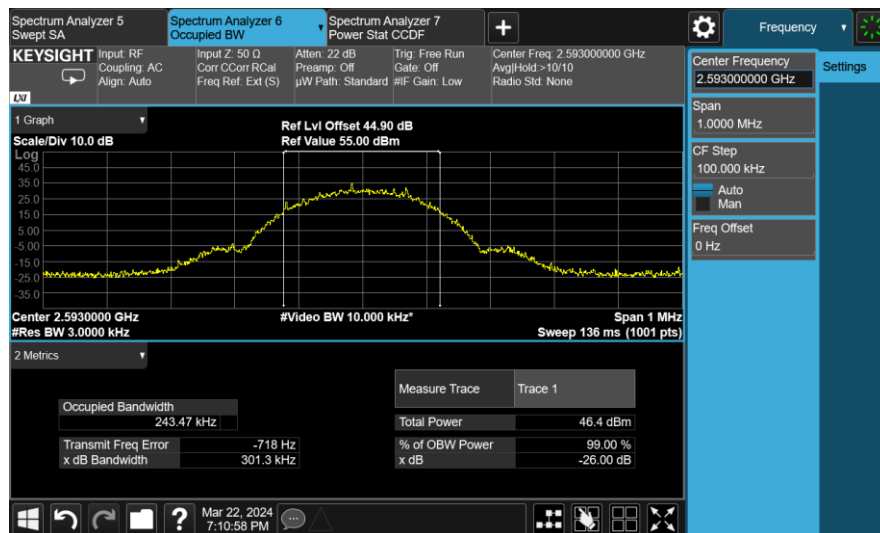
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### 99% OBW

### DL\_GSM\_MCH\_Output\_Pre-AGC



### DL\_GSM\_MCH\_Output\_3dB above AGC

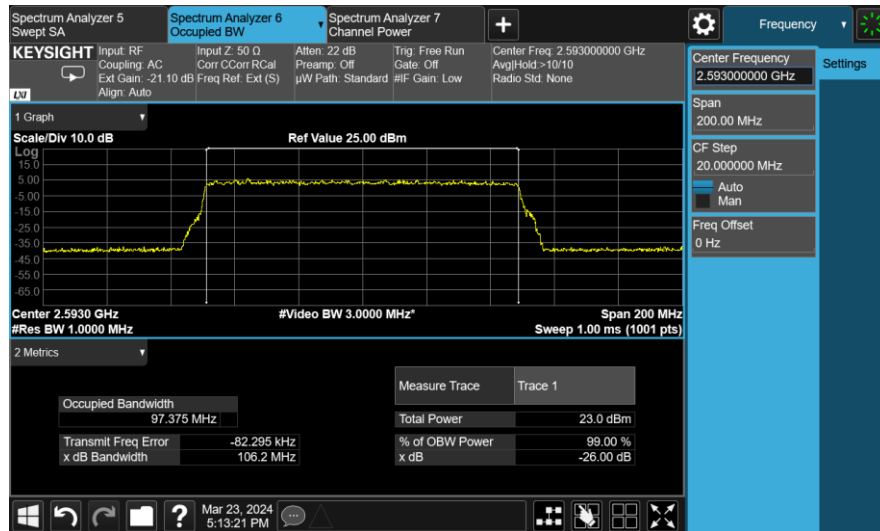


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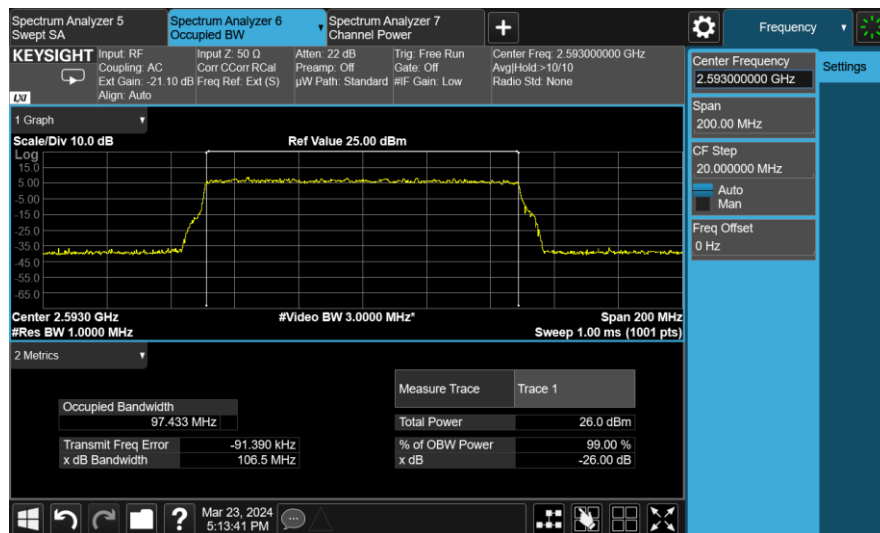
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### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Input\_Pre-AGC



#### DL\_100MHz AWGN\_MCH\_Input\_3dB above AGC

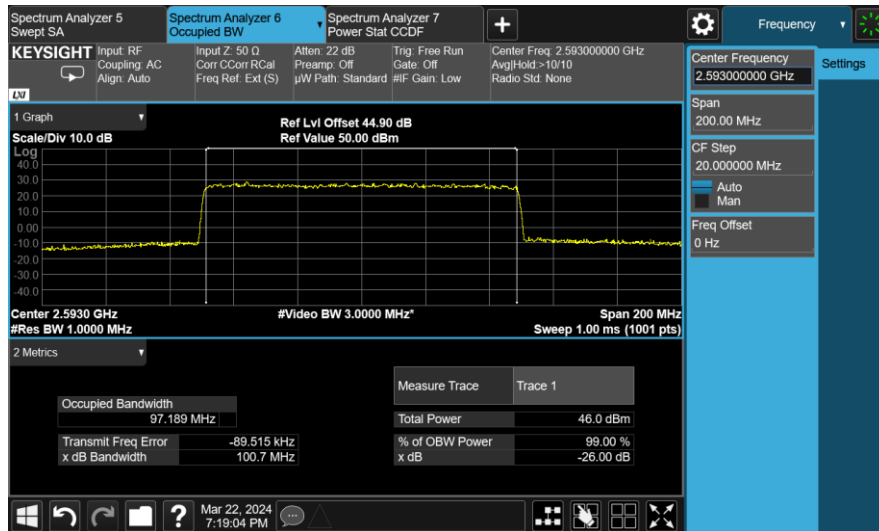


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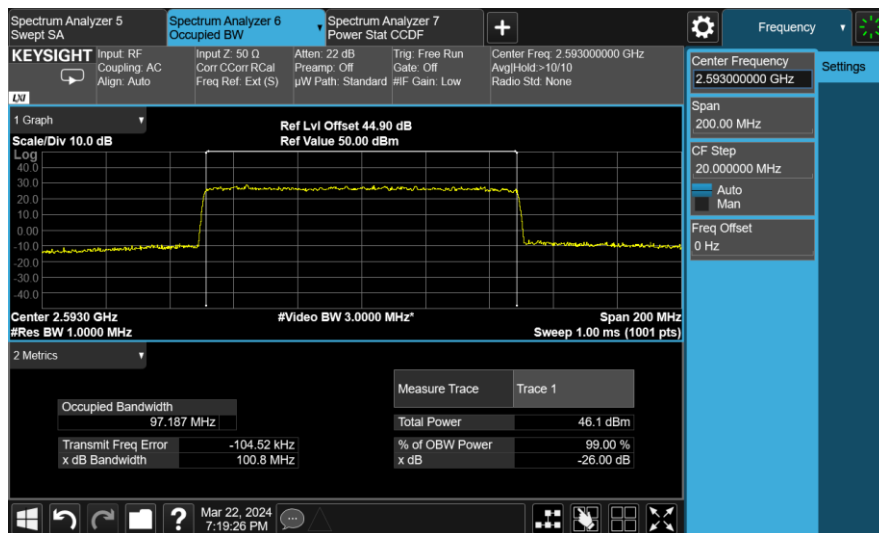
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### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Output\_Pre-AGC



#### DL\_100MHz AWGN\_MCH\_Output\_3dB above AGC



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### 3 Output power and amplifier/booster gain

| Mean output power and gain |                     |             |               |                   |                    |               |                |           |         |
|----------------------------|---------------------|-------------|---------------|-------------------|--------------------|---------------|----------------|-----------|---------|
| Test Path                  | Test Freq. f0 (MHz) | Test Signal | Signal Level  | Input power (dBm) | Output Power (dBm) | SISO EIRP (W) | Total EIRP (W) | Gain (dB) | Verdict |
| DL                         | 2594.0              | 4.1MHz AWGN | Pre-AGC       | 23.00             | 45.96              | 124.74        | 498.89         | 22.96     | PASS    |
|                            |                     |             | 3dB above AGC | 26.00             | 46.34              | 136.15        | 544.51         | /         | PASS    |
|                            |                     | 100MHz AWGN | Pre-AGC       | 23.00             | 46.69              | 147.58        | 590.21         | 23.69     | PASS    |
|                            |                     |             | 3dB above AGC | 26.00             | 46.41              | 138.36        | 553.36         | /         | PASS    |
|                            |                     | GSM         | Pre-AGC       | 23.00             | 46.54              | 142.57        | 570.17         | 23.54     | PASS    |
|                            |                     |             | 3dB above AGC | 26.00             | 46.13              | 129.72        | 518.81         | /         | PASS    |

**Remark:**

- f0 is from Out-of-band Rejection test in the report.
  - EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer, the directional gain =  $G_{ANT} + 10 \log(N_{ANT})$  dBi = 8dBi.
  - For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern:  
 $EIRP \leq 33dBW + 10\lg(X/Y) \text{ dBW} + 10\lg(360/\text{beamwidth}) \text{ dBW} = 1995W + 10\lg(X/Y) \text{ dBW} + 10\lg(360/\text{beamwidth})$
  - For other main or booster:  
 $EIRP \leq 33dBW + 10\lg(X/Y) \text{ dBW} = 1995W + 10\lg(X/Y) \text{ dBW}$
- where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition.
- The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.

## 4 Out-of-band/out-of-block(including intermodulation) emissions

| Out-of-band/out-of-block(including intermodulation) emissions |              |             |                    |               |                                  |             |         |
|---------------------------------------------------------------|--------------|-------------|--------------------|---------------|----------------------------------|-------------|---------|
| Test Path                                                     | Test Channel | Test Signal | Stimulus Condition | Signal Level  | Worst conducted test level (dBm) | Limit (dBm) | Verdict |
| DL                                                            | LCH          | 4.1MHz AWGN | One signal input   | Pre-AGC       | -24.78                           | ≤-16        | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -22.97                           |             | PASS    |
|                                                               |              |             | Two signals input  | Pre-AGC       | -28.27                           |             | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -29.49                           |             | PASS    |
|                                                               | HCH          |             | One signal input   | Pre-AGC       | -23.22                           |             | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -24.54                           |             | PASS    |
|                                                               |              |             | Two signals input  | Pre-AGC       | -26.74                           |             | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -26.83                           |             | PASS    |
| DL                                                            | LCH          | 100MHz AWGN | One signal input   | Pre-AGC       | -19.02                           | ≤-16        | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -19.51                           |             | PASS    |
|                                                               |              |             | Two signals input  | Pre-AGC       | -21.11                           |             | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -20.22                           |             | PASS    |
|                                                               | HCH          |             | One signal input   | Pre-AGC       | -17.09                           |             | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -16.90                           |             | PASS    |
|                                                               |              |             | Two signals input  | Pre-AGC       | -19.95                           |             | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -19.38                           |             | PASS    |

### Remark:

1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10\log_{10}(P)$  dB, here,

$$P = 46\text{dBm} = 39.82\text{W}$$

$$\text{the limit} = 46\text{dBm} - [43 + 10 \log_{10}(39.82\text{W})] \text{ dB} = -13\text{dBm}$$

2. For 2×2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



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| Out-of-band/out-of-block(including intermodulation) emissions                                                                                                                                                                                                                                                                                                                                             |              |             |                    |               |                                  |             |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|--------------------|---------------|----------------------------------|-------------|---------|
| Test Path                                                                                                                                                                                                                                                                                                                                                                                                 | Test Channel | Test Signal | Stimulus Condition | Signal Level  | Worst conducted test level (dBm) | Limit (dBm) | Verdict |
| DL                                                                                                                                                                                                                                                                                                                                                                                                        | LCH          | GSM         | One signal input   | Pre-AGC       | -32.82                           | ≤-16        | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -33.03                           |             | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           |              |             | Two signals input  | Pre-AGC       | -29.97                           |             | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -29.62                           |             | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           | HCH          |             | One signal input   | Pre-AGC       | -29.61                           |             | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -29.77                           |             | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           |              |             | Two signals input  | Pre-AGC       | -33.13                           |             | PASS    |
|                                                                                                                                                                                                                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -32.96                           |             | PASS    |
| Remark:<br>1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, here,<br>P = 46dBm = 39.82W<br>the limit = 46dBm – [43 + 10 log10 (39.82W)] dB = -13dBm<br>2. For 2×2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently. |              |             |                    |               |                                  |             |         |

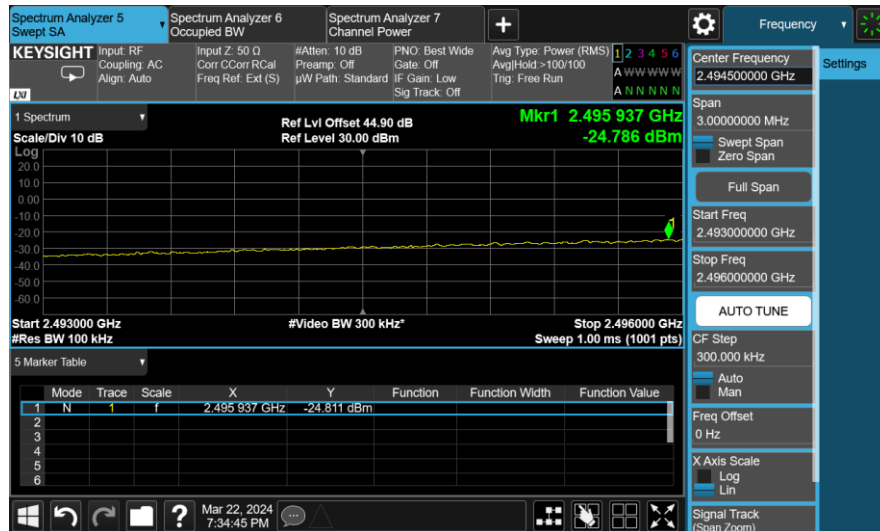


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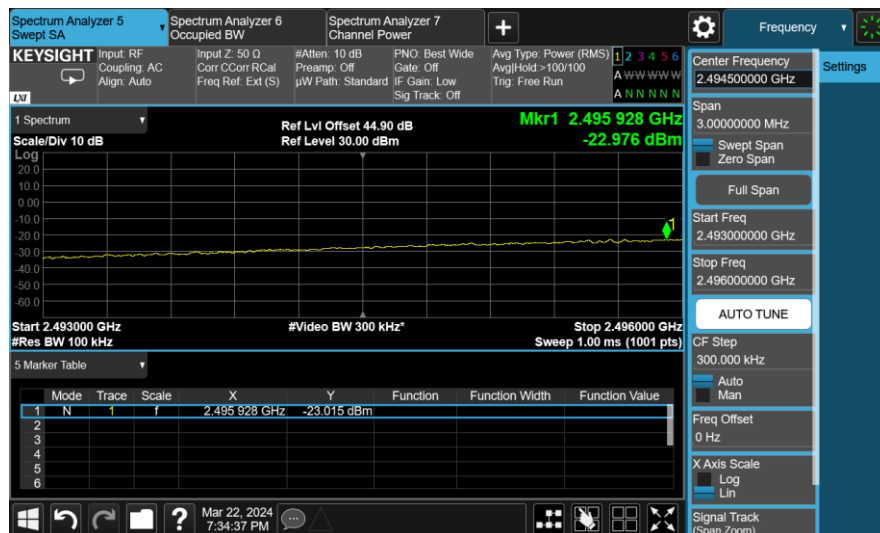
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC



#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC

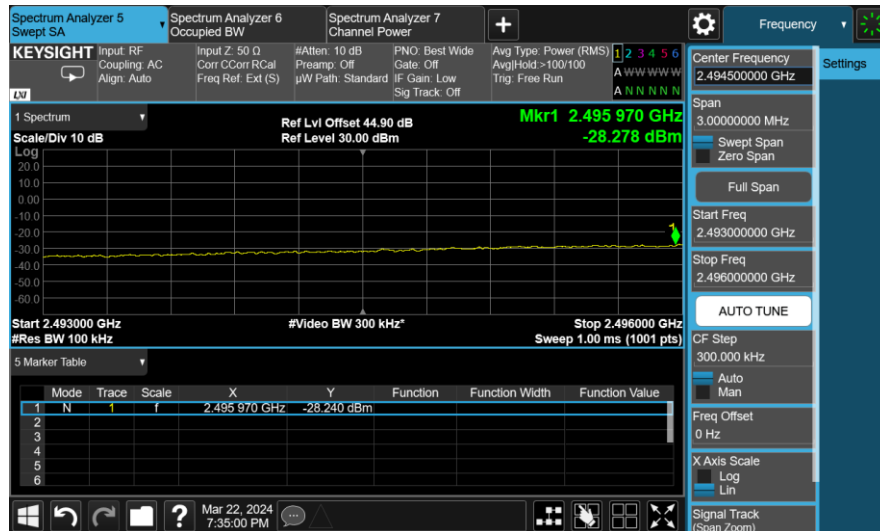


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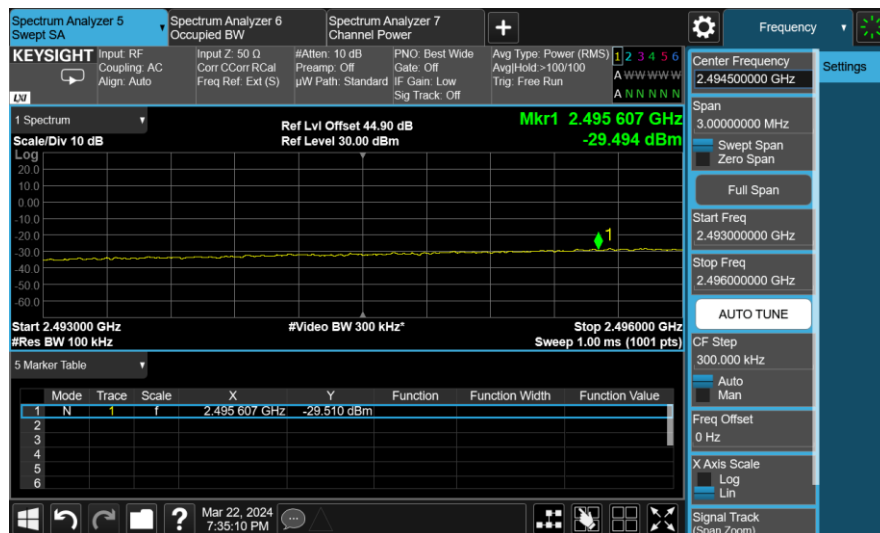
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC



#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC

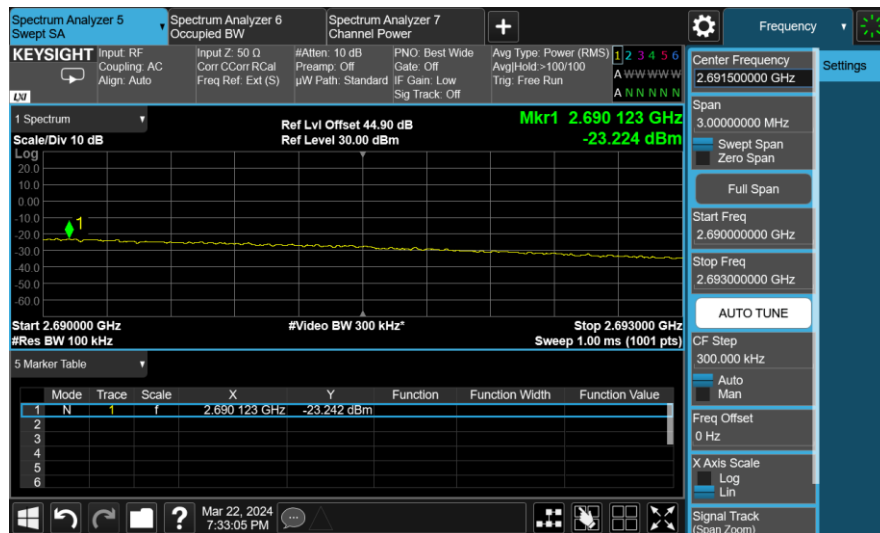


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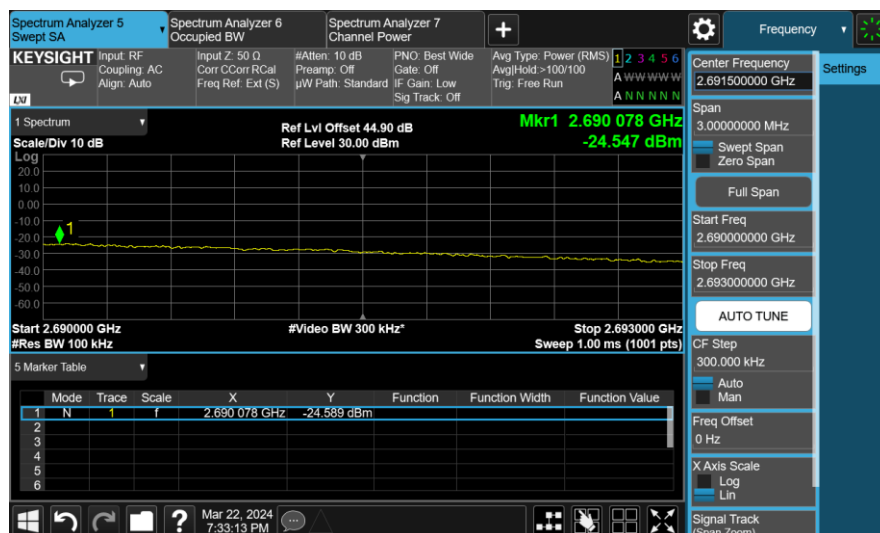
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC



#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC

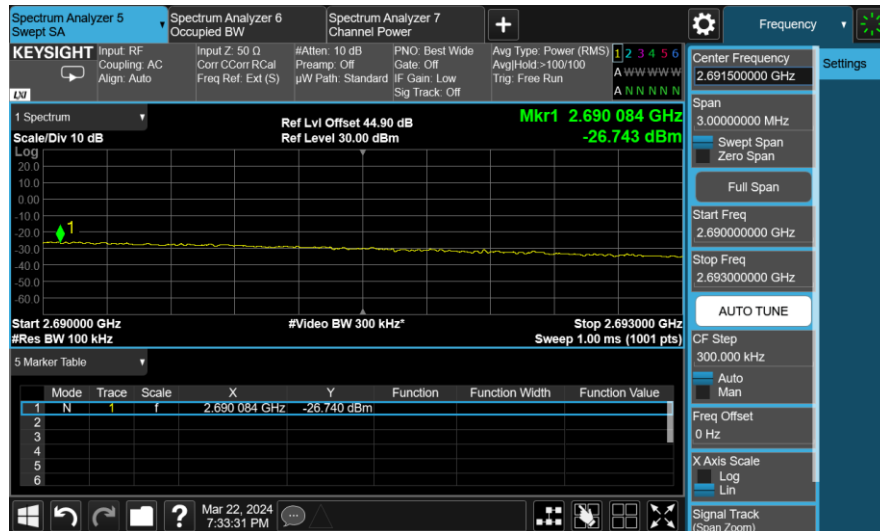


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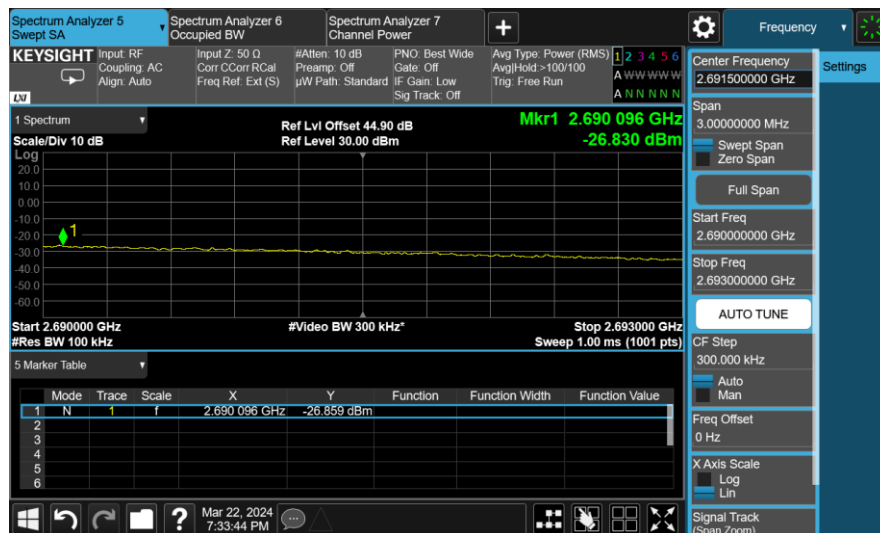
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC

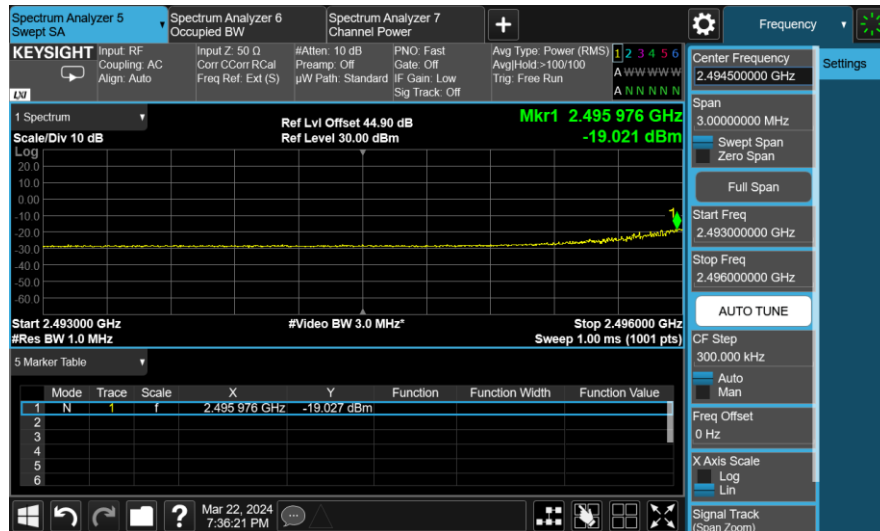


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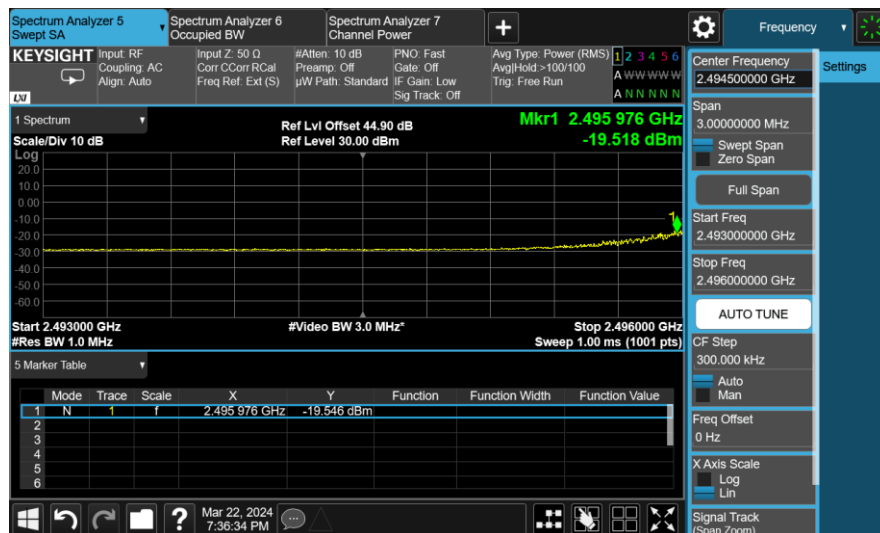
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_LCH\_a single test signal\_Pre-AGC



#### DL\_100MHz AWGN\_LCH\_a single test signal\_3dB above AGC

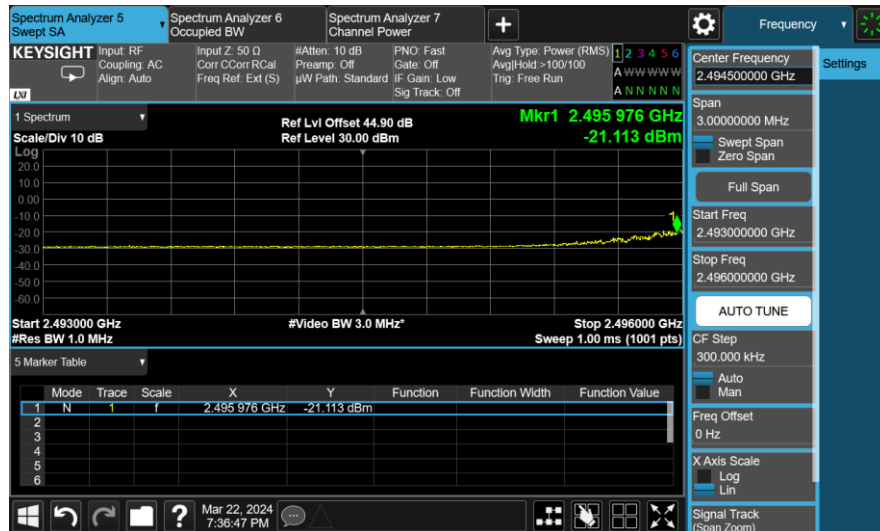


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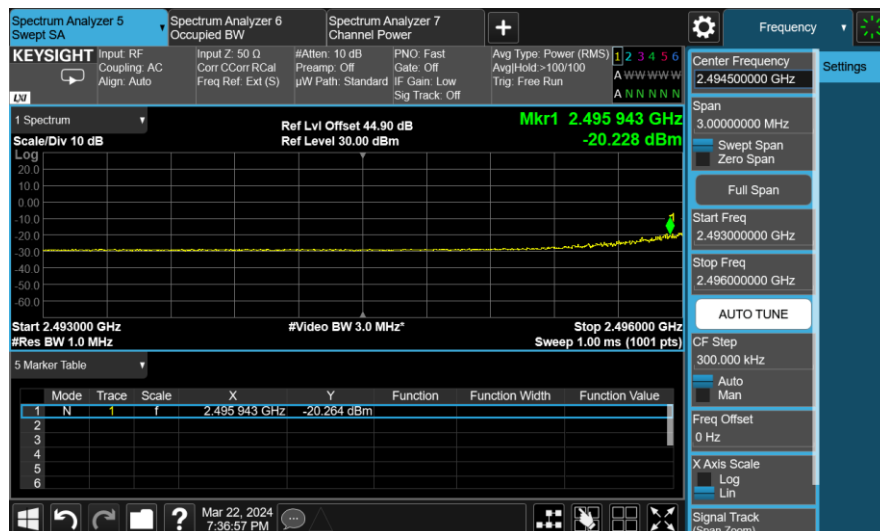
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC



#### DL\_100MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC

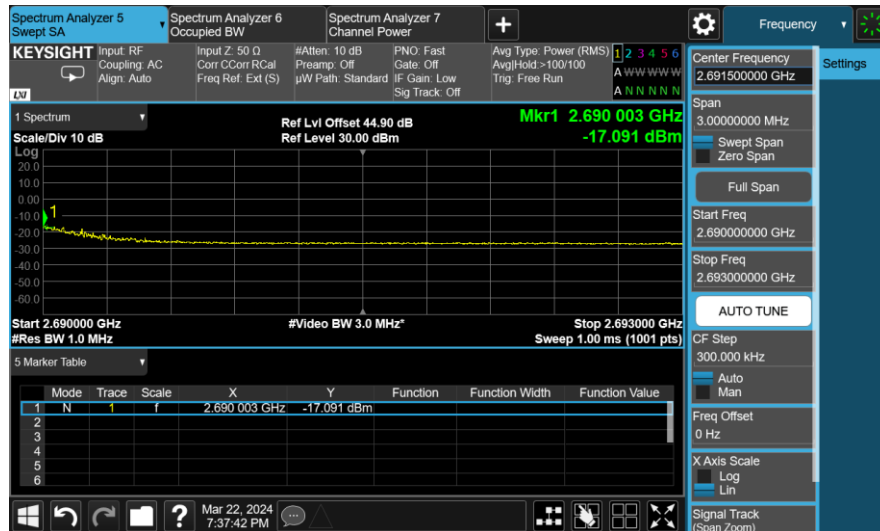


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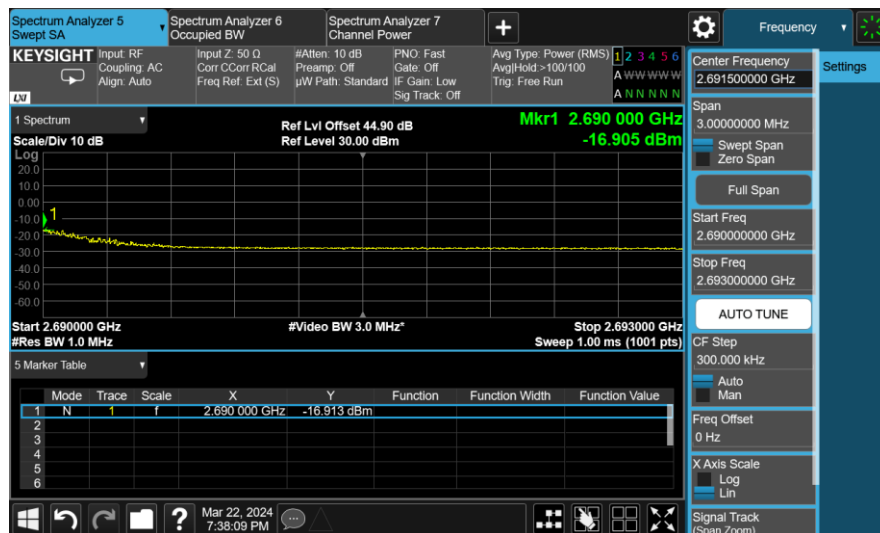
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_HCH\_a single test signal\_Pre-AGC



#### DL\_100MHz AWGN\_HCH\_a single test signal\_3dB above AGC

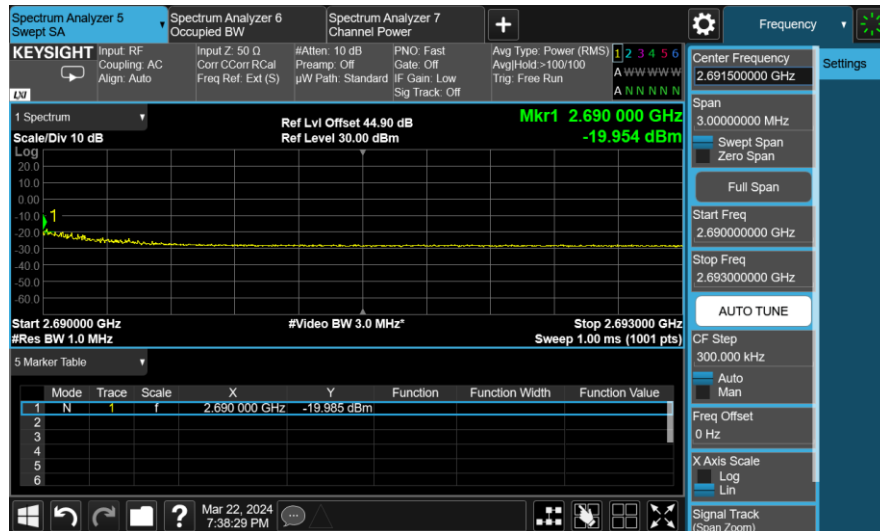


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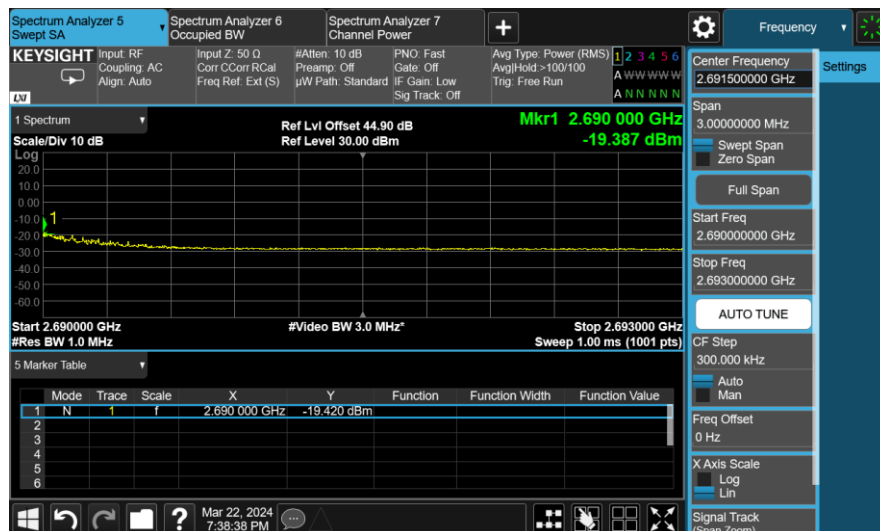
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_100MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC

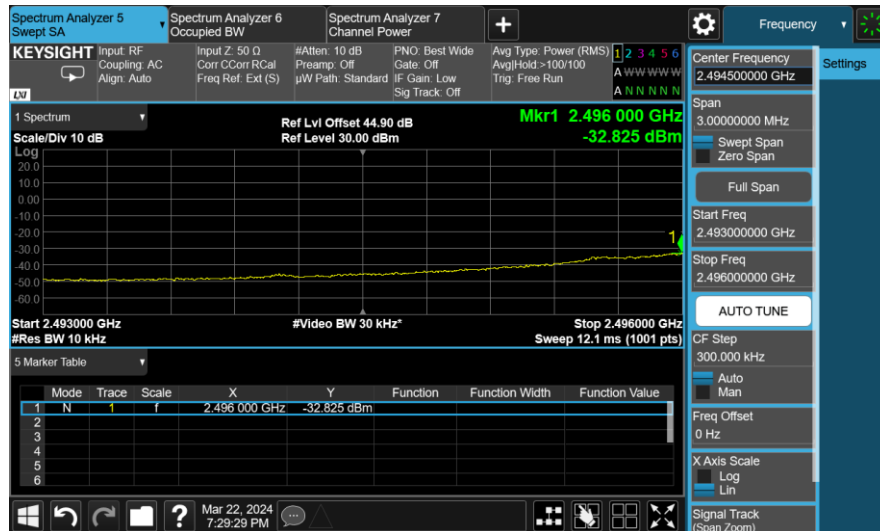


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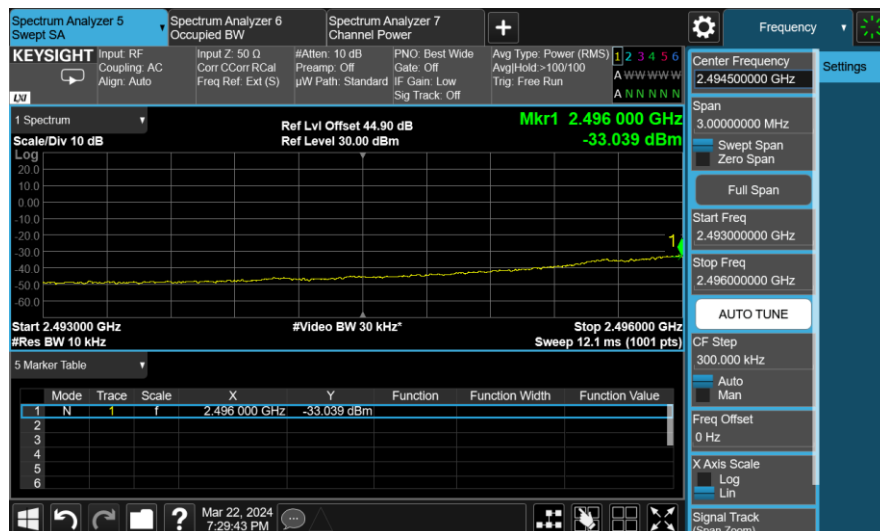
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_LCH\_a single test signal\_Pre-AGC



#### DL\_GSM\_LCH\_a single test signal\_3dB above AGC

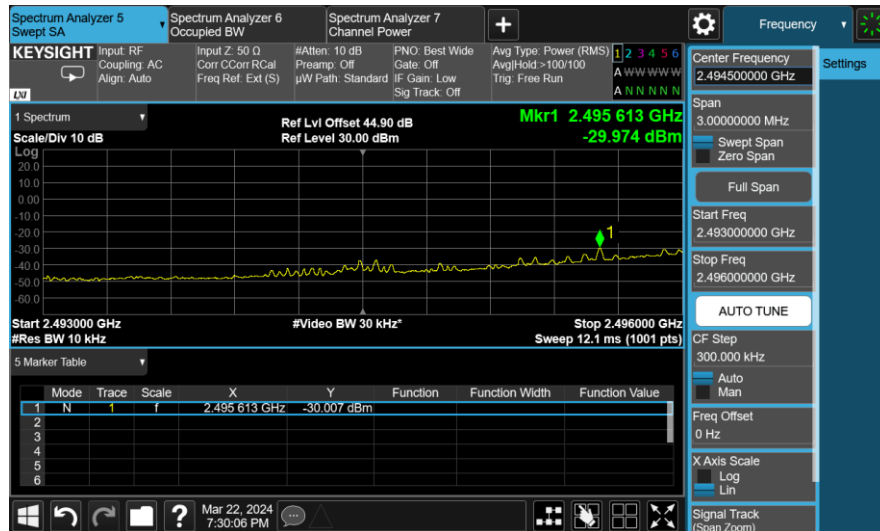


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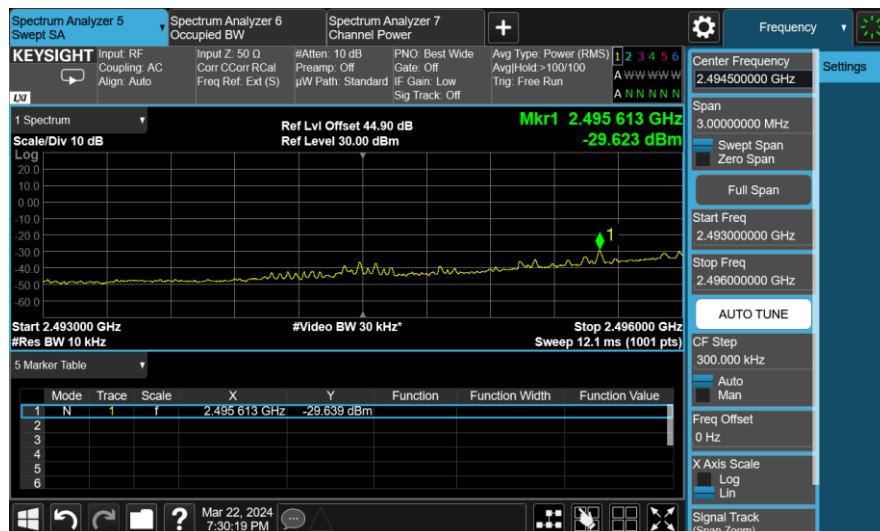
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_LCH\_two adjacent test signals\_Pre-AGC



#### DL\_GSM\_LCH\_two adjacent test signals\_3dB above AGC

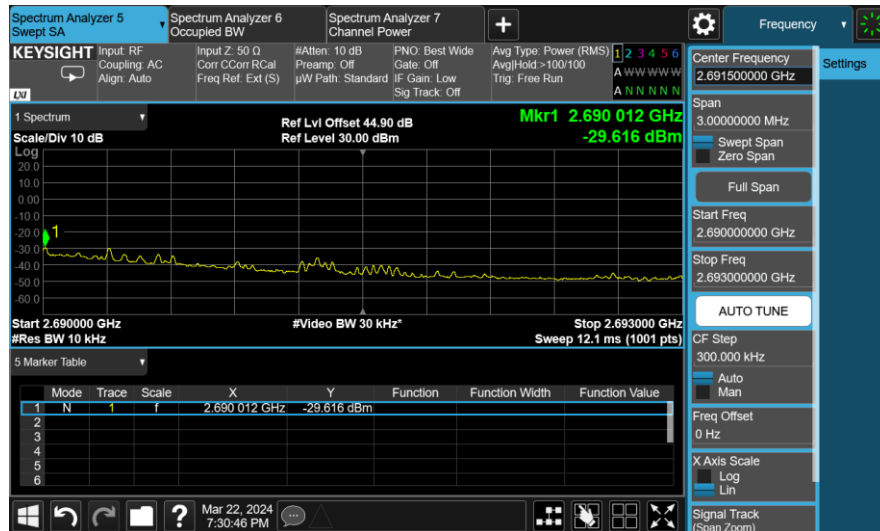


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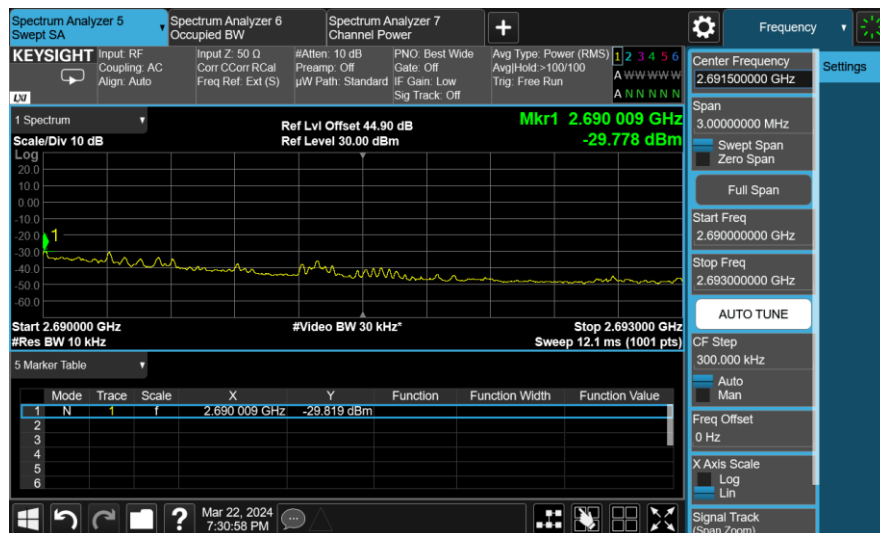
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_HCH\_a single test signal\_Pre-AGC



#### DL\_GSM\_HCH\_a single test signal\_3dB above AGC

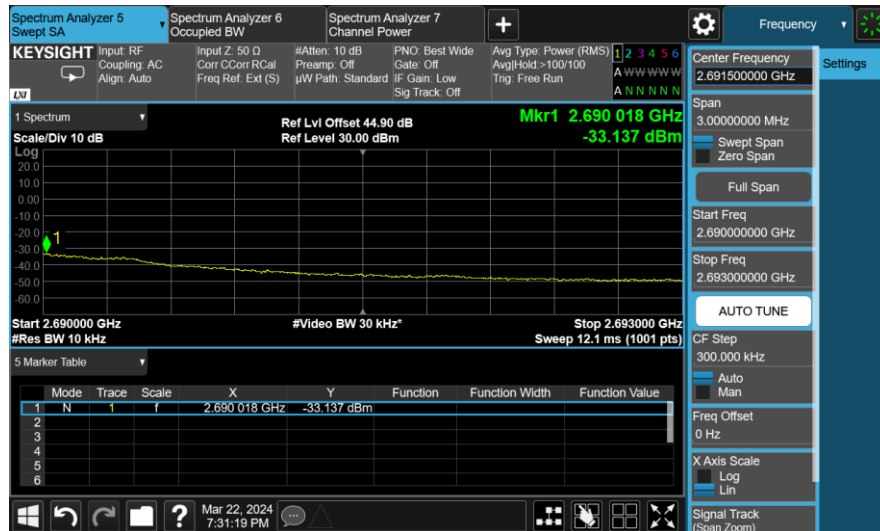


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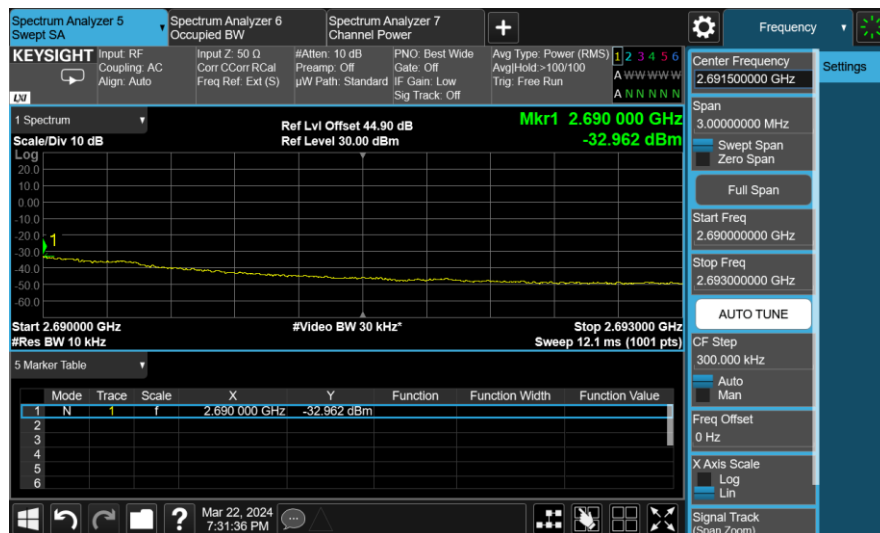
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_GSM\_HCH\_two adjacent test signals\_3dB above AGC



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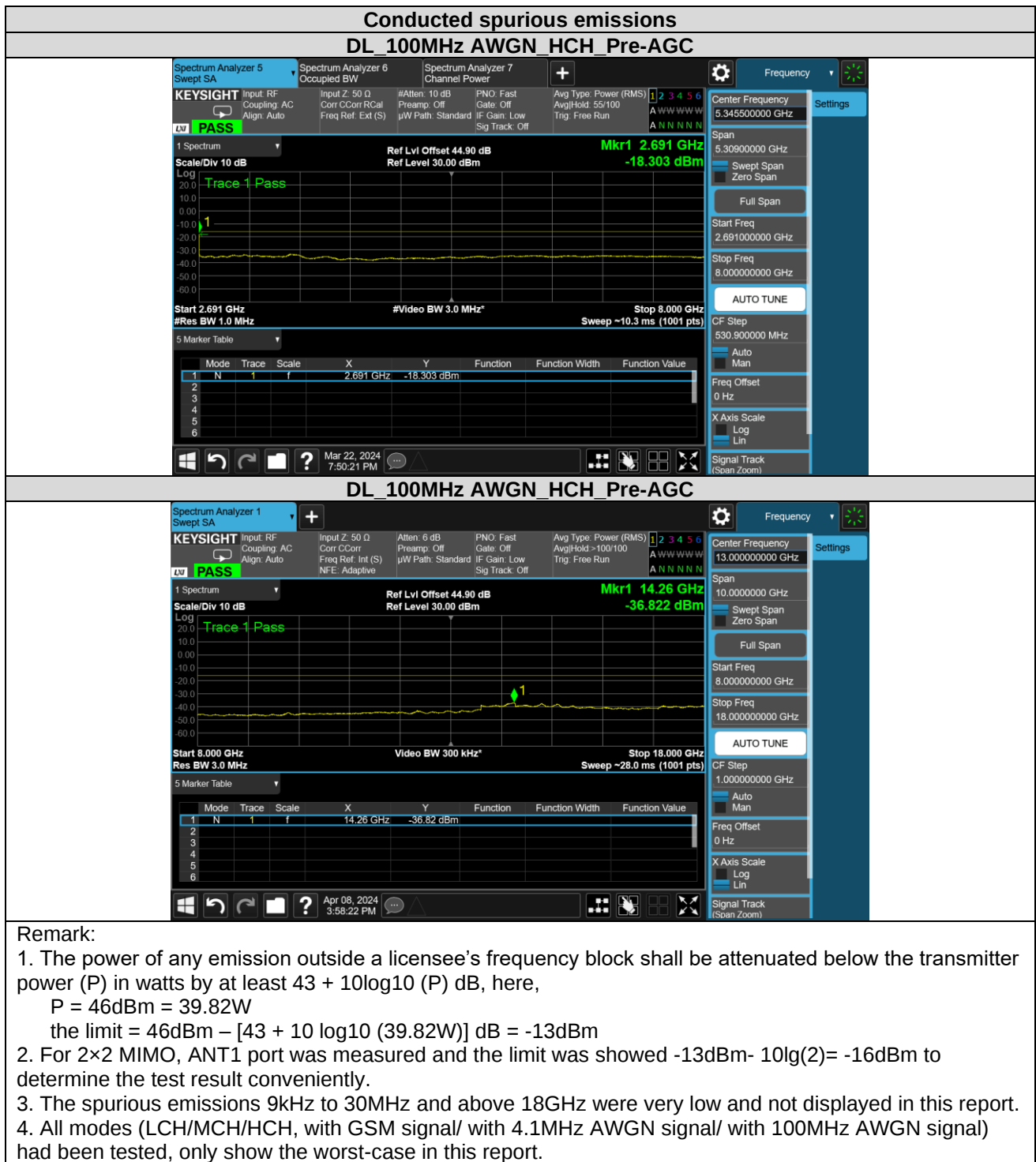
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### 5 Conducted Spurious emissions



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## SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

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### 6 Frequency Stability

| Frequency stability vs voltage |                  |             |             |         |                  |                 |         |
|--------------------------------|------------------|-------------|-------------|---------|------------------|-----------------|---------|
| Test path                      | Test Freq. (MHz) | Test Signal | Temperature | Voltage | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| DL                             | 2593             | 4.1MHz AWGN | TN          | VL      | 17               | 0.0066          | PASS    |
|                                |                  |             | TN          | VH      | 20               | 0.0077          | PASS    |
|                                |                  | 100MHz AWGN | TN          | VL      | 18               | 0.0069          | PASS    |
|                                |                  |             | TN          | VH      | 17               | 0.0066          | PASS    |
|                                |                  | GSM         | TN          | VL      | 13               | 0.0050          | PASS    |
|                                |                  |             | TN          | VH      | 10               | 0.0039          | PASS    |



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Test Report EEC Laboratory

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t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

| Frequency stability vs temperature |                  |             |         |                  |                  |                 |         |
|------------------------------------|------------------|-------------|---------|------------------|------------------|-----------------|---------|
| Test Path                          | Test Freq. (MHz) | Test Signal | Voltage | Temperature (°C) | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| DL                                 | 2593             | 4.1MHz AWGN | VN      | +50              | 18               | 0.0069          | PASS    |
|                                    |                  |             | VN      | +40              | 16               | 0.0062          | PASS    |
|                                    |                  |             | VN      | +30              | 19               | 0.0073          | PASS    |
|                                    |                  |             | VN      | +20              | 20               | 0.0077          | PASS    |
|                                    |                  |             | VN      | +10              | 21               | 0.0081          | PASS    |
|                                    |                  |             | VN      | 0                | 17               | 0.0066          | PASS    |
|                                    |                  |             | VN      | -10              | 17               | 0.0066          | PASS    |
|                                    |                  |             | VN      | -20              | 19               | 0.0073          | PASS    |
|                                    |                  |             | VN      | -30              | 16               | 0.0062          | PASS    |
|                                    | 2593             | 100MHz AWGN | VN      | +50              | 21               | 0.0081          | PASS    |
|                                    |                  |             | VN      | +40              | 18               | 0.0069          | PASS    |
|                                    |                  |             | VN      | +30              | 19               | 0.0073          | PASS    |
|                                    |                  |             | VN      | +20              | 22               | 0.0085          | PASS    |
|                                    |                  |             | VN      | +10              | 16               | 0.0062          | PASS    |
|                                    |                  |             | VN      | 0                | 18               | 0.0069          | PASS    |
|                                    |                  |             | VN      | -10              | 17               | 0.0066          | PASS    |
|                                    |                  |             | VN      | -20              | 20               | 0.0077          | PASS    |
|                                    |                  |             | VN      | -30              | 19               | 0.0073          | PASS    |
|                                    | 2593             | GSM         | VN      | +50              | 11               | 0.0042          | PASS    |
|                                    |                  |             | VN      | +40              | 14               | 0.0054          | PASS    |
|                                    |                  |             | VN      | +30              | 13               | 0.0050          | PASS    |
|                                    |                  |             | VN      | +20              | 11               | 0.0042          | PASS    |
|                                    |                  |             | VN      | +10              | 12               | 0.0046          | PASS    |
|                                    |                  |             | VN      | 0                | 14               | 0.0054          | PASS    |
|                                    |                  |             | VN      | -10              | 10               | 0.0039          | PASS    |
|                                    |                  |             | VN      | -20              | 15               | 0.0058          | PASS    |
|                                    |                  |             | VN      | -30              | 9                | 0.0035          | PASS    |



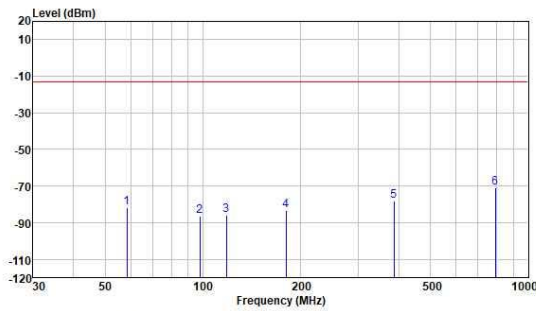
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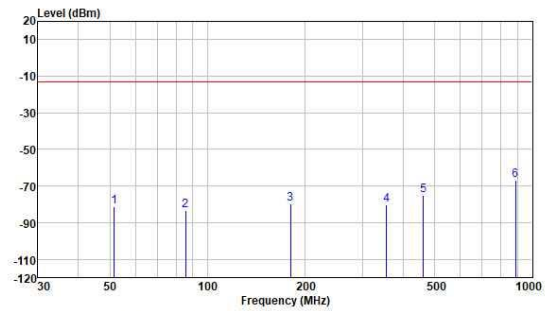
### 7 Radiated Spurious emissions

#### Radiated Spurious emissions

DL\_4.1MHz AWGN\_MCH\_30MHz-1GHz



|   | Freq   | Read Level | Correction Factor | Level  | Limit Line | Over Limit | Pol/Phase  |
|---|--------|------------|-------------------|--------|------------|------------|------------|
|   | MHz    | dBm        | dB                | dBm    | dBm        | dB         |            |
| 1 | 58.41  | -79.40     | -2.40             | -81.80 | -13.00     | -68.80     | HORIZONTAL |
| 2 | 97.80  | -76.76     | -9.65             | -86.41 | -13.00     | -73.41     | HORIZONTAL |
| 3 | 118.19 | -77.38     | -8.54             | -85.92 | -13.00     | -72.92     | HORIZONTAL |
| 4 | 180.02 | -77.28     | -6.01             | -83.29 | -13.00     | -70.29     | HORIZONTAL |
| 5 | 386.63 | -77.30     | -1.10             | -78.40 | -13.00     | -65.40     | HORIZONTAL |
| 6 | 793.40 | -77.42     | 6.57              | -70.85 | -13.00     | -57.85     | HORIZONTAL |



|   | Freq   | Read Level | Correction Factor | Level  | Limit Line | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|--------|------------|------------|-----------|
|   | MHz    | dBm        | dB                | dBm    | dBm        | dB         |           |
| 1 | 51.48  | -74.87     | -6.35             | -81.22 | -13.00     | -68.22     | VERTICAL  |
| 2 | 85.60  | -73.91     | -9.25             | -83.16 | -13.00     | -70.16     | VERTICAL  |
| 3 | 180.02 | -75.54     | -3.94             | -79.48 | -13.00     | -66.48     | VERTICAL  |
| 4 | 355.43 | -78.26     | -2.02             | -80.28 | -13.00     | -67.28     | VERTICAL  |
| 5 | 462.35 | -76.94     | 1.70              | -75.24 | -13.00     | -62.24     | VERTICAL  |
| 6 | 887.61 | -76.81     | 9.81              | -67.00 | -13.00     | -54.00     | VERTICAL  |

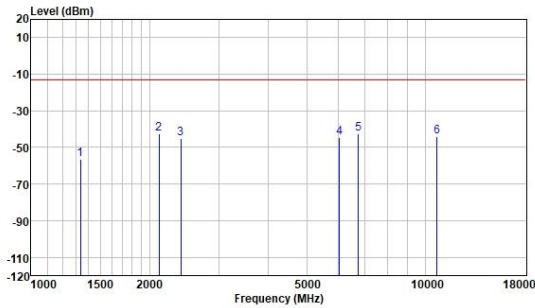


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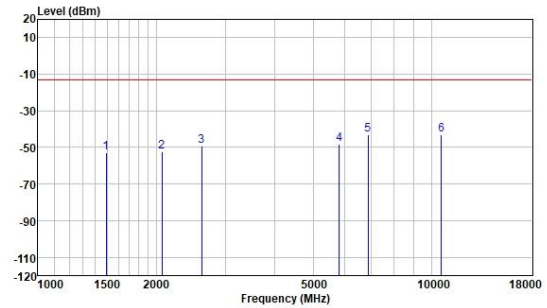
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### Radiated Spurious emissions

#### DL\_4.1MHz AWGN\_MCH\_above 1GHz



|   | Freq     | Read Level | Correction Factor | Level  | Limit  | Over Limit | Pol/Phase  |
|---|----------|------------|-------------------|--------|--------|------------|------------|
|   | MHz      | dBm        | dB                | dBm    | dBm    | dB         |            |
| 1 | 1335.14  | -60.55     | 4.12              | -56.43 | -13.00 | -43.43     | HORIZONTAL |
| 2 | 2114.05  | -51.97     | 9.47              | -42.50 | -13.00 | -29.50     | HORIZONTAL |
| 3 | 2490.75  | -54.81     | 9.50              | -45.31 | -13.00 | -32.31     | HORIZONTAL |
| 4 | 6053.89  | -63.89     | 19.15             | -44.74 | -13.00 | -31.74     | HORIZONTAL |
| 5 | 6756.71  | -63.01     | 20.38             | -42.63 | -13.00 | -29.63     | HORIZONTAL |
| 6 | 10698.51 | -67.91     | 23.84             | -44.07 | -13.00 | -31.07     | HORIZONTAL |



|   | Freq     | Read Level | Correction Factor | Level  | Limit  | Over Limit | Pol/Phase |
|---|----------|------------|-------------------|--------|--------|------------|-----------|
|   | MHz      | dBm        | dB                | dBm    | dBm    | dB         |           |
| 1 | 1490.14  | -59.45     | 6.79              | -52.66 | -13.00 | -39.66     | VERTICAL  |
| 2 | 2065.73  | -60.91     | 8.84              | -52.07 | -13.00 | -39.07     | VERTICAL  |
| 3 | 2603.13  | -54.70     | 5.69              | -49.01 | -13.00 | -36.01     | VERTICAL  |
| 4 | 5813.81  | -64.25     | 15.99             | -48.26 | -13.00 | -35.26     | VERTICAL  |
| 5 | 6894.81  | -63.47     | 20.61             | -42.86 | -13.00 | -29.86     | VERTICAL  |
| 6 | 10575.54 | -67.67     | 24.78             | -42.89 | -13.00 | -29.89     | VERTICAL  |

#### Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals). The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

--End of Appendix--



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