

# TEST REPORT

**Application No.:** FYCR2608000385AT

**Applicant:** Comba Telecom Network Systems Limited

**Address of Applicant:** Flat/Rm 10, 3/F, Bio-Informatics Ctr, 2 Science Park West Avenue, HK Science Park, Pak Shek Kok, N.T. Hong Kong

**Manufacturer:** Comba Telecom Technology (Guangzhou) Ltd.

**Address of Manufacturer:** No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China

**Factory:** Comba Telecom Technology (Guangzhou) Ltd.

**Address of Factory:** No. 6 Jinbi Road, Economics and Technology Development District, Guangzhou, Guangdong, China

**EUT Name:** mBDA Band Selective Wireless Repeater

**Item No.:** mBDA-200ST

**Trade Mark:** Comba

**FCC ID:** PX8MBDA-200ST

**Standard(s) :** 47 CFR Part 2  
47 CFR Part 20  
47 CFR Part 27

**Date of Receipt:** 2026-08-03

**Date of Test:** 2026-08-11 to 2026-09-16

**Date of Issue:** 2026-09-18

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.



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SZCCS-TRF-01 Rev. A/2

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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2026-09-18 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                         |  |                              |  |
|-------------------------|--|------------------------------|--|
| Authorized for issue by |  |                              |  |
|                         |  | Byron Liang                  |  |
|                         |  | Byron Liang/Project Engineer |  |
| Approved By             |  | Tree Zhan                    |  |
|                         |  | Tree Zhan/Reviewer           |  |



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## 2 Test Summary

| Item                                                          | Standard             | Method                                                         | Requirement                     | Result |
|---------------------------------------------------------------|----------------------|----------------------------------------------------------------|---------------------------------|--------|
| Out-of-band rejection                                         | KDB935210 D05 v01r04 | KDB935210 D05 v01r04 clause 3.3                                | KDB935210 D05 v01r04 clause 3.3 | Pass   |
| Input-versus-output signal comparison                         | 47 CFR Part 2        | KDB935210 D05 v01r04 clause 3.4                                | Part 2.1049                     | Pass   |
| Mean output power and amplifier/booster gain                  | 47 CFR Part 27       | KDB935210 D05 v01r04 clause 3.5                                | Part 27.50(h)                   | Pass   |
| Out-of-band/out-of-block(including intermodulation) emissions |                      | KDB935210 D05 v01r04 clause 3.6                                | Part 27.53(m)                   | Pass   |
| Conducted spurious emissions                                  |                      | KDB935210 D05 v01r04 clause 3.6                                | Part 27.53(m)                   | Pass   |
| Frequency stability                                           |                      | KDB935210 D05 v01r04 clause 3.7<br>ANSI C63.26-2015 Clause 5.6 | 47 CFR Part 2.1055              | Pass   |
| Radiated spurious emissions (below 1GHz)                      |                      | KDB935210 D05 v01r04 clause 3.8<br>ANSI C63.26-2015 Clause 5.5 | Part 27.53(m)                   | Pass   |
| Radiated spurious emissions (above 1GHz)                      |                      | KDB935210 D05 v01r04 clause 3.8<br>ANSI C63.26-2015 Clause 5.5 | Part 27.53(m)                   | Pass   |

### Note:

E.U.T./ EUT means Equipment Under Test

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

### 4.1 Details of EUT

|                                                                                                                                                                                        |                            |                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|
| Power Supply:                                                                                                                                                                          | AC 100-240V, 50-60Hz       |                                                |
| Test Voltage:                                                                                                                                                                          | AC 120V 60Hz               |                                                |
| Cable:                                                                                                                                                                                 | AC mains (4m, unshielded)  |                                                |
| Operating Temperature:                                                                                                                                                                 | -20°C to +40°C             |                                                |
| Operating Humidity:                                                                                                                                                                    | ≤95%                       |                                                |
| Frequency Range:                                                                                                                                                                       | BRS/EBS band               | Uplink: 2496-2690MHz<br>Downlink: 2496-2690MHz |
|                                                                                                                                                                                        | 3.45GHz Service band       | Uplink: 3450-3550MHz<br>Downlink: 3450-3550MHz |
|                                                                                                                                                                                        | 3.7GHz Service band        | Uplink: 3700-3980MHz<br>Downlink: 3700-3980MHz |
| Support Technology:                                                                                                                                                                    | LTE                        |                                                |
|                                                                                                                                                                                        | 5G NR                      |                                                |
| EUT MIMO property:                                                                                                                                                                     | 1T1R                       |                                                |
| Interface:                                                                                                                                                                             | Antenna Port               | 3 (4.3-10 Female)                              |
|                                                                                                                                                                                        | OMT Port                   | 1 (RJ-45)                                      |
| Normal Output Power:<br>(per antenna port)                                                                                                                                             | BRS/EBS band               | Uplink: 24dBm<br>Downlink: 37dBm               |
|                                                                                                                                                                                        | 3.45GHz Service band       | Uplink: 24dBm<br>Downlink: 37dBm               |
|                                                                                                                                                                                        | 3.7GHz Service band        | Uplink: 24dBm<br>Downlink: 37dBm               |
| Maximum Gain:                                                                                                                                                                          | BRS/EBS band               | Uplink: 90dB<br>Downlink: 90dB                 |
|                                                                                                                                                                                        | 3.45GHz Service band       | Uplink: 90dB<br>Downlink: 90dB                 |
|                                                                                                                                                                                        | 3.7GHz Service band        | Uplink: 90dB<br>Downlink: 90dB                 |
| Antenna Type:                                                                                                                                                                          | External Dedicated Antenna |                                                |
| Permission Antenna Gain:                                                                                                                                                               | 10dBi or less              |                                                |
| Software Version:                                                                                                                                                                      | V0.00.00.200ST             |                                                |
| Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information. |                            |                                                |



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## 4.2 Description of Support Units

| Description                                        | Manufacturer | Model No.               | Serial No. |
|----------------------------------------------------|--------------|-------------------------|------------|
| Notebook                                           | LENOVO       | Lenovo Xiaoxinchao 5000 | PF0TNMG8   |
| Matched load and attenuator supplied by the client | /            | /                       | /          |

## 4.3 Test Environment

| Environment Parameter | Selected Values During Test |             |
|-----------------------|-----------------------------|-------------|
| Relative Humidity     | Ambient                     |             |
| Value                 | Temperature (°C)            | Voltage (V) |
| TNVN                  | Asmbient                    | AC 120      |
| TLVL                  | -30                         | AC 102      |
| TLVH                  | -30                         | AC 138      |
| THVL                  | +50                         | AC 102      |
| THVH                  | +50                         | AC 138      |

VN: Normal Voltage, TN: Normal Temperature

VL: Lower Extreme Voltage, VH: Higher Extreme Voltage

TL: Lower Extreme Temperature, TH: Higher Extreme Temperature

## 4.4 Measurement Uncertainty

| No. | Item                           | Measurement Uncertainty                       |
|-----|--------------------------------|-----------------------------------------------|
| 1   | RF Output Power                | 2.4G:± 0.80dB; 5G:± 0.43dB                    |
| 2   | Transmitter unwanted emissions | ± 4.7dB                                       |
| 3   | Radiated Spurious Emission     | ± 5.7dB;± 4.7dB (1-18GHz); ± 4.7dB (18-40GHz) |
| 4   | Occupied Channel Bandwidth     | ± 0.27%                                       |
| 5   | Frequency Stability            | ± 5.4 x 10 <sup>-8</sup>                      |

Remark:

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR}$  (CISPR Uncertainty) or  $U_{ETSI}$  (ETSI Uncertainty).

Emission decision rule:

- Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.
- Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.



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### 4.5 Test Signals and Test Channels

| BRS/EBS band: 2496-2690MHz |                      |                |             |                           |
|----------------------------|----------------------|----------------|-------------|---------------------------|
| Test Channel               | Test Frequency (MHz) |                | Test Signal | Stimulus Condition        |
|                            | Downlink             | Uplink         |             |                           |
| LCH                        | 2498.5               | 2498.5         | 4.1MHz AWGN | a single test signal      |
| MCH                        | 2593                 | 2593           |             |                           |
| HCH                        | 2687.5               | 2687.5         |             |                           |
| LCH                        | 2498.5, 2503.5       | 2498.5, 2503.5 |             | two adjacent test signals |
| HCH                        | 2682.5, 2687.5       | 2682.5, 2687.5 |             |                           |
| LCH                        | 2546                 | 2546           | 100MHz AWGN | a single test signal      |
| MCH                        | 2593                 | 2593           |             |                           |
| HCH                        | 2640                 | 2640           |             |                           |
| LCH                        | 2496.4               | 2496.4         | GSM-TDMA    | a single test signal      |
| MCH                        | 2593                 | 2593           |             |                           |
| HCH                        | 2689.6               | 2689.6         |             |                           |
| LCH                        | 2496.4, 2496.8       | 2496.4, 2496.8 |             | two adjacent test signals |
| HCH                        | 2689.2, 2689.6       | 2689.2, 2689.6 |             |                           |

LCH: Lowest Channel

MCH: Middle Channel

HCH: Highest Channel

DL: Downlink Path

UL: Uplink Path

The EUT cannot accommodate two simultaneous 100MHz AWGN signals within the passband.



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### 4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

#### • FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

#### • Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 4.8 Deviation from Standards

None

### 4.9 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| RF Conducted Test                           |                              |               |               |            |              |
|---------------------------------------------|------------------------------|---------------|---------------|------------|--------------|
| Equipment                                   | Manufacturer                 | Model No.     | Inventory No. | Cal Date   | Cal Due Date |
| Loop Antenna(9kHz-30MHz)                    | ETS-LINDGREN                 | 6502          | SEM003-43     | 2025-06-16 | 2027-06-15   |
| Shielding Room                              | CRT                          | N/A           | SEM001-14     | 2025-10-13 | 2028-10-12   |
| Power Sensor                                | KEYSIGHT                     | U2021XA       | SEM009-16     | 2026-02-04 | 2027-02-03   |
| MXA Signal Analyzer(10Hz-50GHz)             | KEYSIGHT                     | N9020B        | SEM004-24     | 2026-02-03 | 2027-02-02   |
| MXA Signal Analyzer(20Hz-26.5GHz)           | KEYSIGHT                     | N9020A        | SEM004-25     | 2026-02-03 | 2027-02-02   |
| Measurement Software                        | TST PASS                     | TST PASS V2.0 | N/A           | N/A        | N/A          |
| Coaxial Cable                               | SGS                          | N/A           | SEM037-01     | 2026-05-12 | 2027-05-11   |
| Manual Step Attenuator                      | Agilent                      | 8494B         | SEM021-05     | 2026-02-02 | 2027-02-01   |
| Manual Step Attenuator                      | Agilent                      | 8496B         | SEM021-06     | 2026-02-02 | 2027-02-01   |
| Attenuator(18GHz, 20dB, 2W)                 | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2026-02-02 | 2027-02-01   |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2026-02-03 | 2027-02-02   |
| Signal Generator(9kHz-40GHz)                | Agilent                      | N5173B        | SEM006-05     | 2026-03-31 | 2027-03-30   |
| Vector Signal Generator(100kHz-7.5GHz)      | Rohde & Schwarz              | SMW200A       | SEM006-19     | 2026-07-06 | 2027-07-05   |
| MXG Vector Signal Generator(100kHz-6GHz)    | Agilent                      | N5182A        | SEM006-21     | 2026-02-03 | 2027-02-02   |
| Wideband Radio Communication Tester         | Rohde & Schwarz              | CMW 500       | SEM010-08     | 2026-02-03 | 2027-02-02   |
| Radio Communication Analyzer                | Anritsu                      | MT8821C       | SEM010-04     | 2026-02-04 | 2027-02-03   |
| Radio Communication Test Station            | Anritsu                      | MT8000A       | SZ-WRG-M-013  | 2026-04-28 | 2027-04-27   |



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| Radiated Spurious Emissions Below 1GHz |              |                 |               |            |              |
|----------------------------------------|--------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Semi- Anechoic Chambe               | CRT          | N/A             | SEM001-13     | 2025-10-13 | 2028-10-12   |
| MXE EMI receiver(20Hz-8.4GHz)          | Agilent      | N9038A          | SEM004-05     | 2026-07-03 | 2027-07-02   |
| Trilog-Broadband Antenna(25MHz-2GHz)   | Schwarzbeck  | VULB9168        | SEM003-26     | 2025-09-03 | 2027-09-02   |
| Pre-Amplifier                          | HP           | 8447D           | SEM005-02     | 2026-07-07 | 2027-07-06   |
| Measurement Software                   | AUDIX        | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                          | SGS          | N/A             | SEM035-01     | 2026-05-12 | 2027-05-11   |
| Loop Antenna(9kHz-30MHz)               | ETS-LINDGREN | 6502            | SEM003-43     | 2025-06-16 | 2027-06-15   |

| Radiated Spurious Emissions Above 1GHz |                 |                 |               |            |              |
|----------------------------------------|-----------------|-----------------|---------------|------------|--------------|
| Equipment                              | Manufacturer    | Model No.       | Inventory No. | Cal Date   | Cal Due Date |
| 3m Fully-Anechoic Chamber              | CRT             | N/A             | SEM001-13     | 2025-10-13 | 2028-10-12   |
| Signal Analyzer                        | Rohde & Schwarz | FSU43           | SEM004-08     | 2026-03-04 | 2027-03-03   |
| Horn Antenna                           | Schwarzbeck     | BBHA 9120 D     | SEM003-54     | 2025-05-24 | 2028-05-23   |
| Broad-Band Horn Antenna (15-40GHz)     | Schwarzbeck     | BBHA 9170       | SEM003-15     | 2025-07-29 | 2028-07-28   |
| Pre-amplifier(0.4GHz-8GHz)             | TST             | LNA04080G30     | SEM005-27     | 2026-02-05 | 2027-02-04   |
| Pre-amplifier(1GHz-18GHz)              | TST             | LNA10180G45     | SEM005-28     | 2026-02-05 | 2027-02-04   |
| Pre-amplifier(1GHz-18GHz)              | TST             | LNA10180G60     | SEM005-32     | 2026-04-04 | 2027-04-03   |
| Pre-amplifier(18GHz-40GHz)             | TST             | LNA180400G40    | SEM005-39     | 2026-04-29 | 2027-04-28   |
| Measurement Software                   | AUDIX           | e3 V8.2014-6-27 | N/A           | N/A        | N/A          |
| Coaxial Cable                          | SGS             | N/A             | SEM035-02     | 2026-05-12 | 2027-05-11   |
| Coaxial Cable                          | SGS             | N/A             | SEM035-03     | 2026-05-12 | 2027-05-11   |



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| General used equipment         |              |           |               |            |              |
|--------------------------------|--------------|-----------|---------------|------------|--------------|
| Equipment                      | Manufacturer | Model No. | Inventory No. | Cal Date   | Cal Due Date |
| Humidity/Temperature Indicator | deli         | 8838      | SEM002-52     | 2026-07-08 | 2027-07-07   |
| Humidity/Temperature Indicator | deli         | 8838      | SEM002-53     | 2026-07-08 | 2027-07-07   |
| Barometer                      | DUMAI        | DYM3      | SEM002-24     | 2026-07-10 | 2027-07-09   |



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## 6 Radio Spectrum Matter Test Results

### 6.1 Out-of-band rejection

Test Requirement: KDB 935210 D05 clause 3.3

Test Method: KDB 935210 D05 clause 3.3

Limit: Within the passband

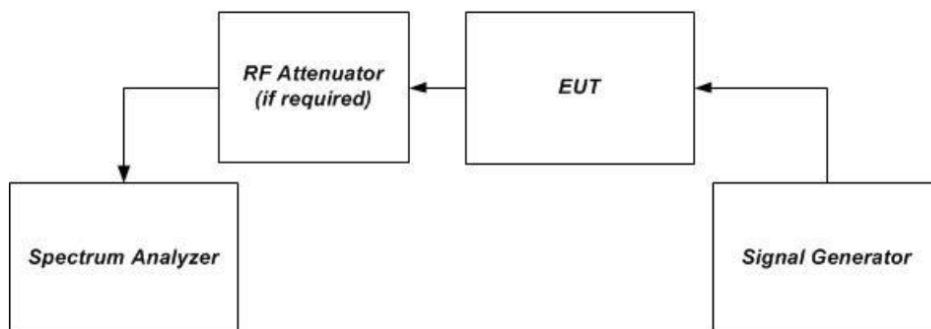
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.1.2 Test Setup



#### 6.1.3 Measurement Record

Please Refer to Appendix for Details



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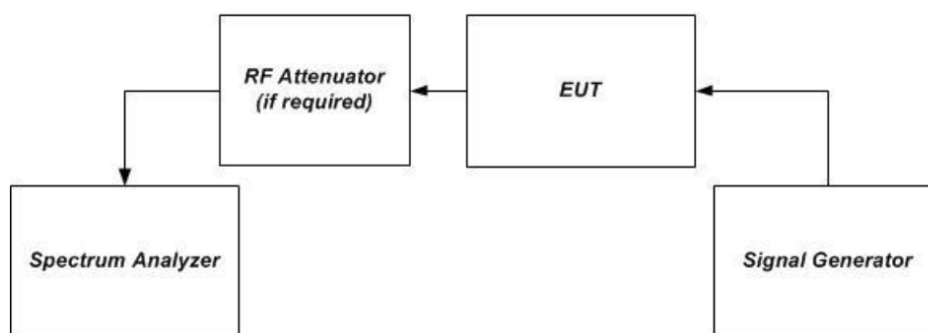
### 6.2 Input versus output comparison

Test Requirement: 47 CFR Part 2.1049  
 Test Method: KDB 935210 D05 clause 3.4  
 Limit: The spectral plots of the output signal and the input signal are similar (in passband and rolloff characteristic features and relative spectral locations).

#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar  
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.2.2 Test Setup



#### 6.2.3 Measurement Record

Please Refer to Appendix for Details



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### 6.3 Mean output power and amplifier/booster gain

Test Requirement: 47 CFR Part 27.50(h)

Test Method: KDB 935210 D05 clause 3.5

Limit: For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern:  
 $EIRP \leq 33dBW + 10lg(X/Y)$  dBW +  $10lg(360/\text{beamwidth})$  dBW.  
 For other main or booster:  
 $EIRP \leq 33dBW + 10lg(X/Y)$  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.

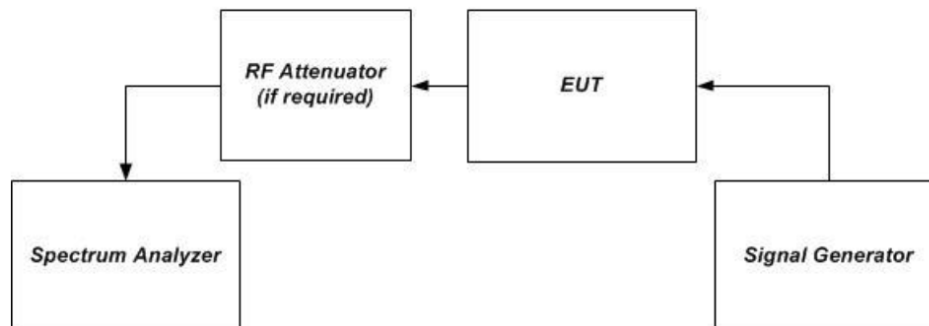
#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.3.2 Test Setup



#### 6.3.3 Measurement Record

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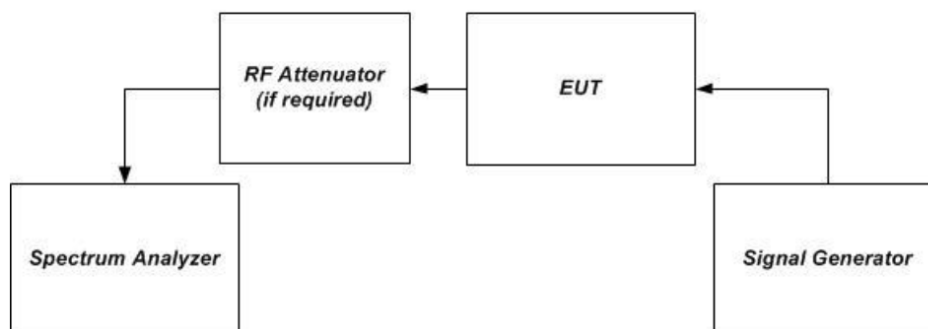
### 6.4 Out-of-band/out-of-block(including intermodulation) emissions

Test Requirement: 47 CFR Part 27.53(m)  
 Test Method: KDB 935210 D05 clause 3.6  
 Limit: For digital base stations, the attenuation shall be not less than  $43 + 10 \log (P)$  dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area.

#### 6.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar  
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.4.2 Test Setup



#### 6.4.3 Measurement Record

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### 6.5 Conducted Spurious emissions

Test Requirement: 47 CFR Part 27.53(m)  
 Test Method: KDB 935210 D05 clause 3.6  
 Limit: For digital base stations, the attenuation shall be not less than  $43 + 10 \log (P)$  dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area.

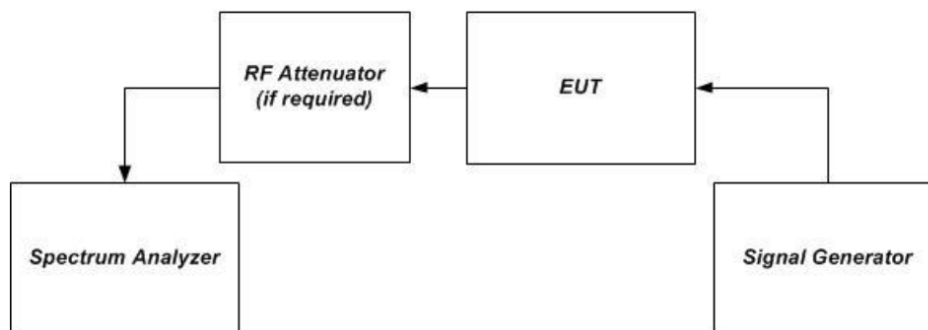
#### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.5.2 Test Setup



#### 6.5.3 Measurement Record

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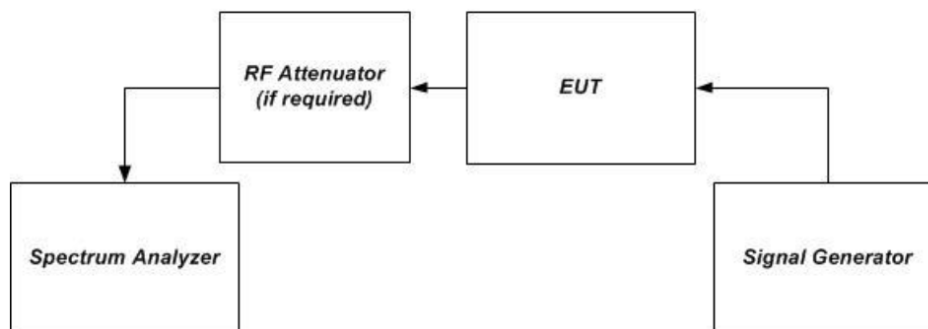
### 6.6 Frequency Stability

Test Requirement: 47 CFR Part 2.1055  
 Test Method: KDB 935210 D05 clause 3.7  
 ANSI C63.26-2015 clause 5.6  
 Limit: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

#### 6.6.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22~26 °C Humidity: 45~60 % RH Atmospheric Pressure: 1010 mbar  
 EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.6.2 Test Setup



#### 6.6.3 Measurement Record

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### 6.7 Radiated Spurious emission (below 1GHz)

|                   |                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 27.53(m)                                                                                                                                                                                                           |
| Test Method:      | KDB 935210 D05 clause 3.8<br>ANSI C63.26-2015 clause 5.5                                                                                                                                                                       |
| Test Distance:    | 3m                                                                                                                                                                                                                             |
| Limit:            | For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. |

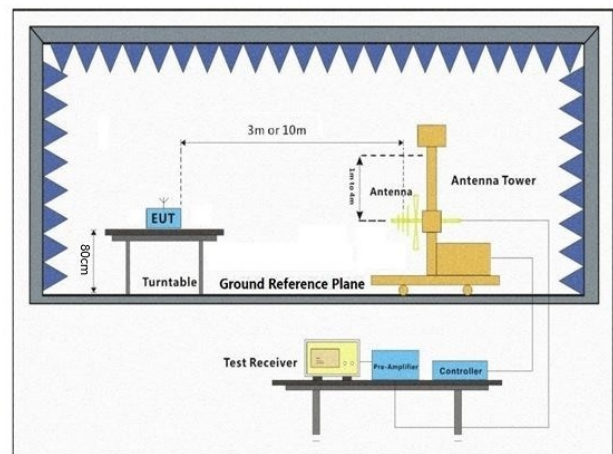
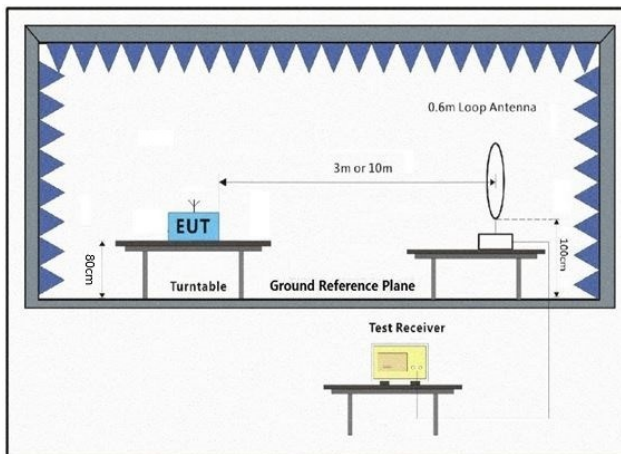
#### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 57.8 % RH Atmospheric Pressure: 1010 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.7.2 Test Setup



## 6.7.3 Test procedure

1. Scan from 9kHz to 1GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.
  - 1) The EUT was powered on and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
  - 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
  - 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
  - 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
  - 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
  - 6) The output power into the substitution antenna was then measured.
  - 7) Steps 5) and 6 )were repeated with both antennas vertically polarized.
  - 8) Calculate power in dBm by the following formula:  

$$\text{Level (dBm)} = \text{Read Level (dBm)} + \text{Correction Factor (dB)}$$

## 6.7.4 Measurement Record

Please Refer to Appendix for Details



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### 6.8 Radiated Spurious emission (above 1GHz)

Test Requirement: 47 CFR Part 27.53(m)

Test Method: KDB 935210 D05 clause 3.8  
ANSI C63.26-2015 clause 5.5

Limit: For digital base stations, the attenuation shall be not less than  $43 + 10 \log (P)$  dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area.

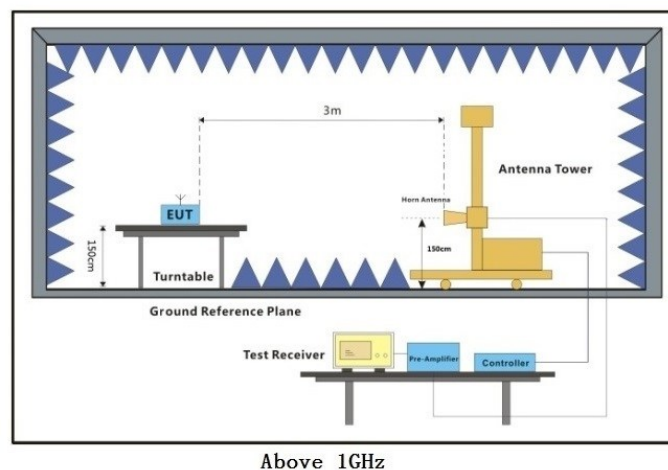
#### 6.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.4 °C Humidity: 59 % RH Atmospheric Pressure: 1008 mbar

EUT Operation: Drive the EUT to the maximum output power at maximum gain.

#### 6.8.2 Test Setup



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## 6.8.3 Test procedure

1. Scan from 1GHz to 40GHz, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.
  - 1) The EUT was powered on and placed on a table in the fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
  - 2) Rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
  - 3) Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
  - 4) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
  - 5) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
  - 6) The output power into the substitution antenna was then measured.
  - 7) Steps 5) and 6 )were repeated with both antennas vertically polarized.
  - 8) Calculate power in dBm by the following formula:  

$$\text{Level (dBm)} = \text{Read Level (dBm)} + \text{Correction Factor (dB)}$$

## 6.8.4 Measurement Record

Please Refer to Appendix for Details



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## 7 Test Setup Photographs

Refer to Appendix - Test Setup Photos for FYCR260800038501.

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for FYCR2608000385AT.

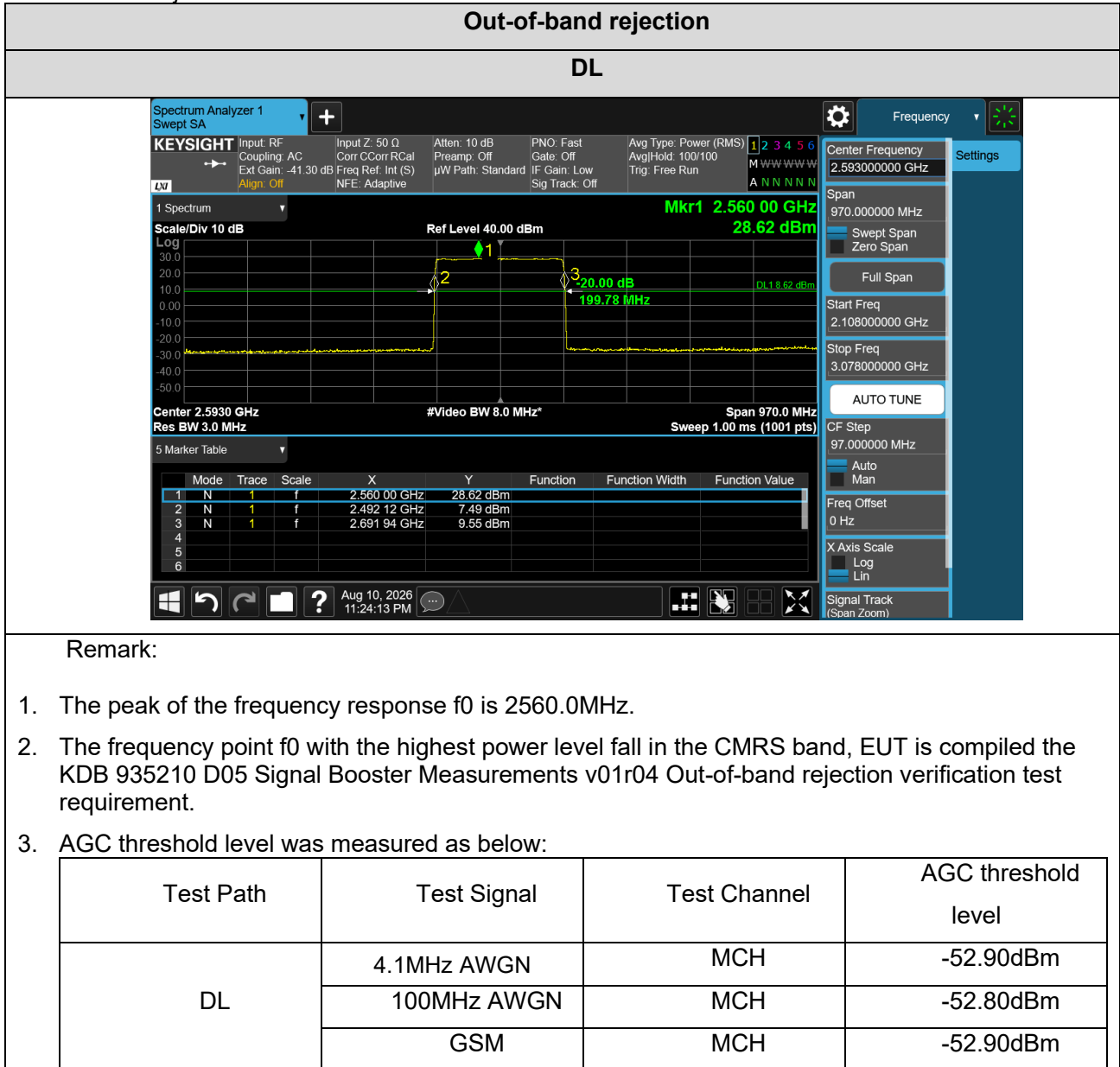


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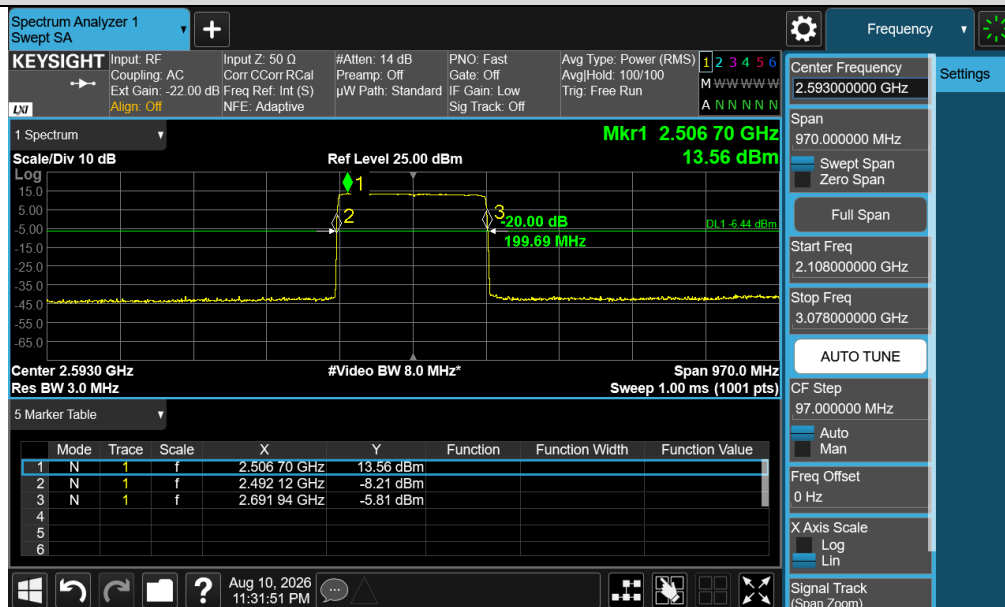
## 9 Appendix

### 1 Out-of-band rejection



### Out-of-band rejection

#### UL



#### Remark:

1. The peak of the frequency response  $f_0$  is 2506.7MHz.
2. The frequency point  $f_0$  with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
3. AGC threshold level was measured as below:

| Test Path | Test Signal | Test Channel | AGC threshold level |
|-----------|-------------|--------------|---------------------|
| DL        | 4.1MHz AWGN | MCH          | -65.90dBm           |
|           | 100MHz AWGN | MCH          | -65.80dBm           |
|           | GSM         | MCH          | -65.90dBm           |



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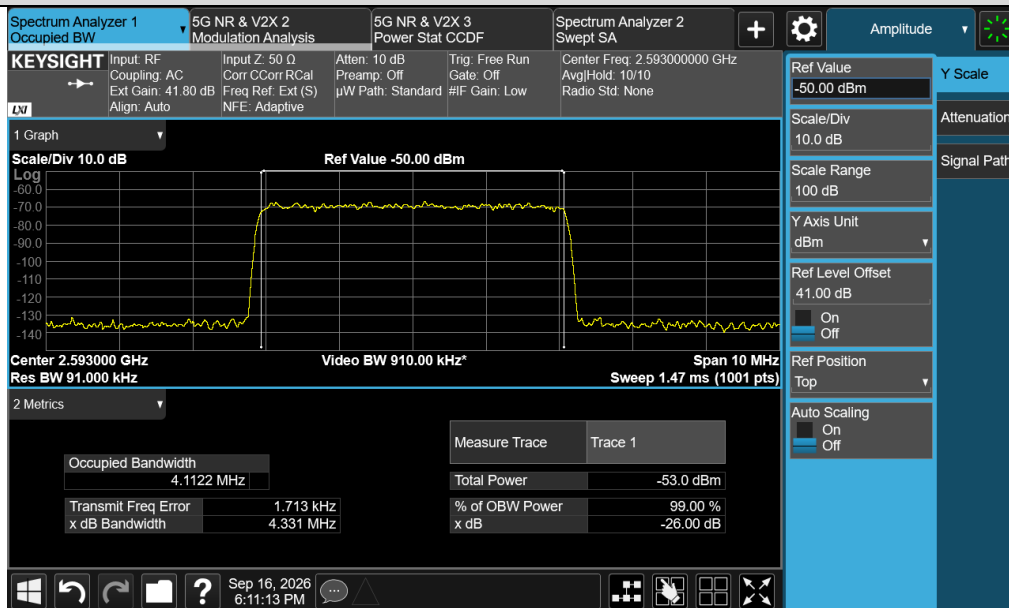
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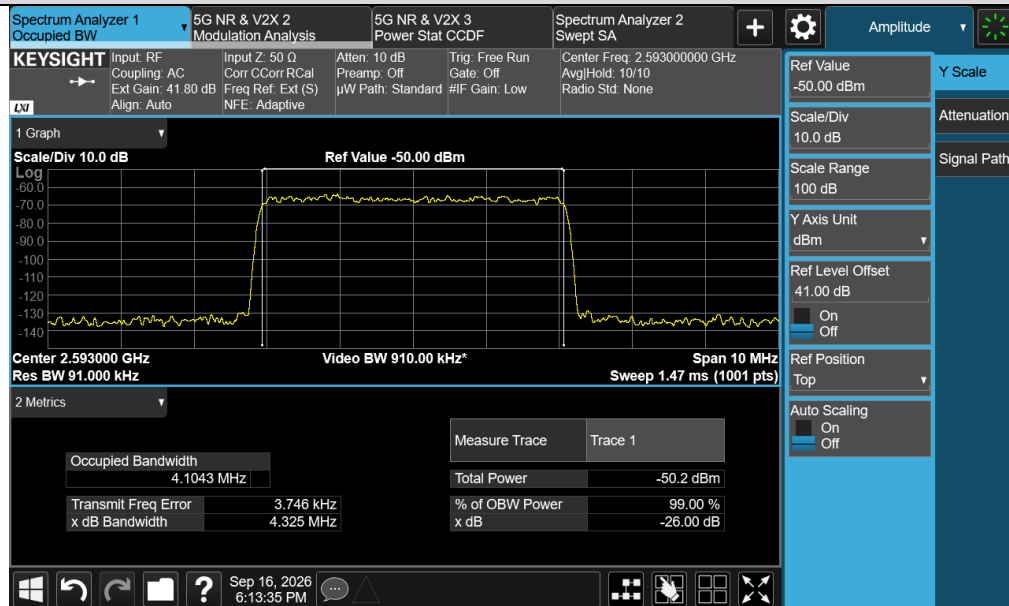
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#### DL\_4.1MHz AWGN\_MCH\_Input\_Pre-AGC

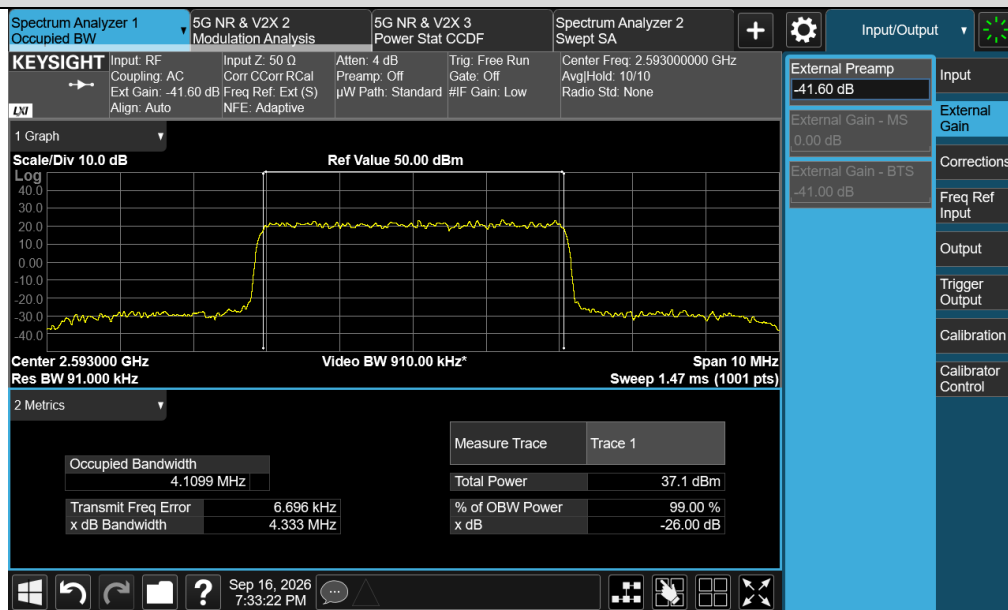


#### DL\_4.1MHz AWGN\_MCH\_Input\_3dB above AGC

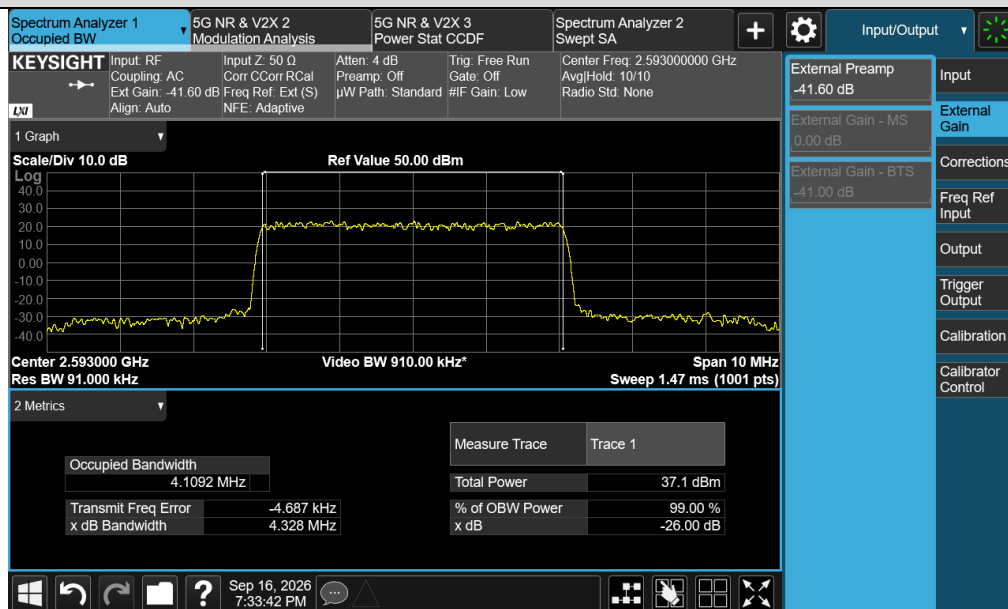


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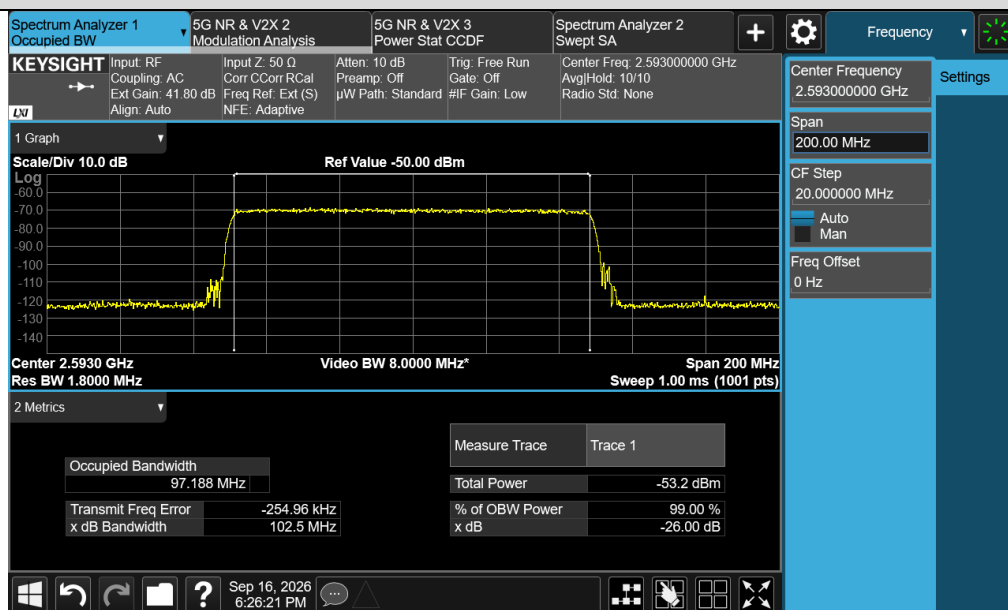


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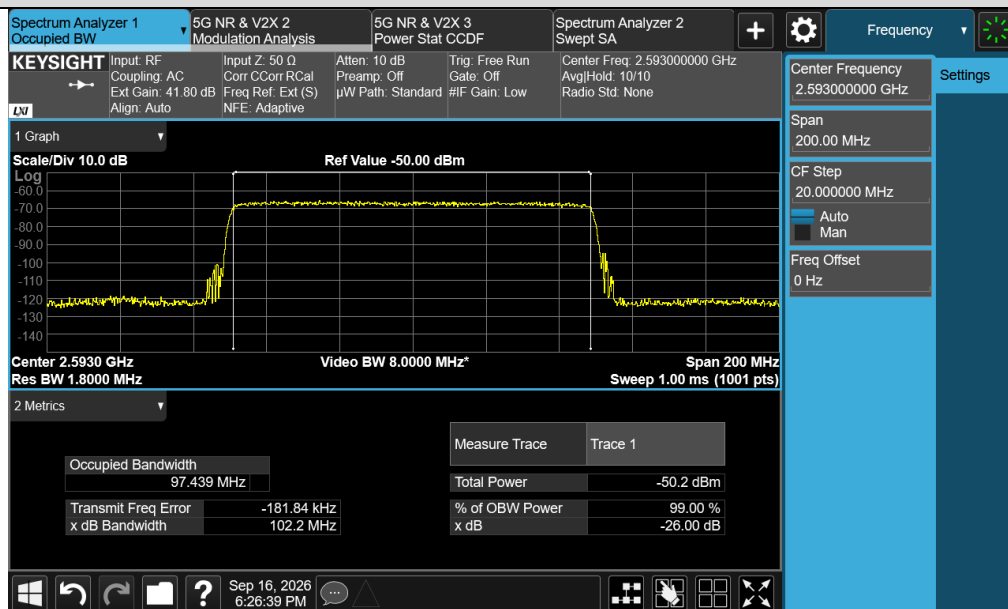


### 99% OBW

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



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



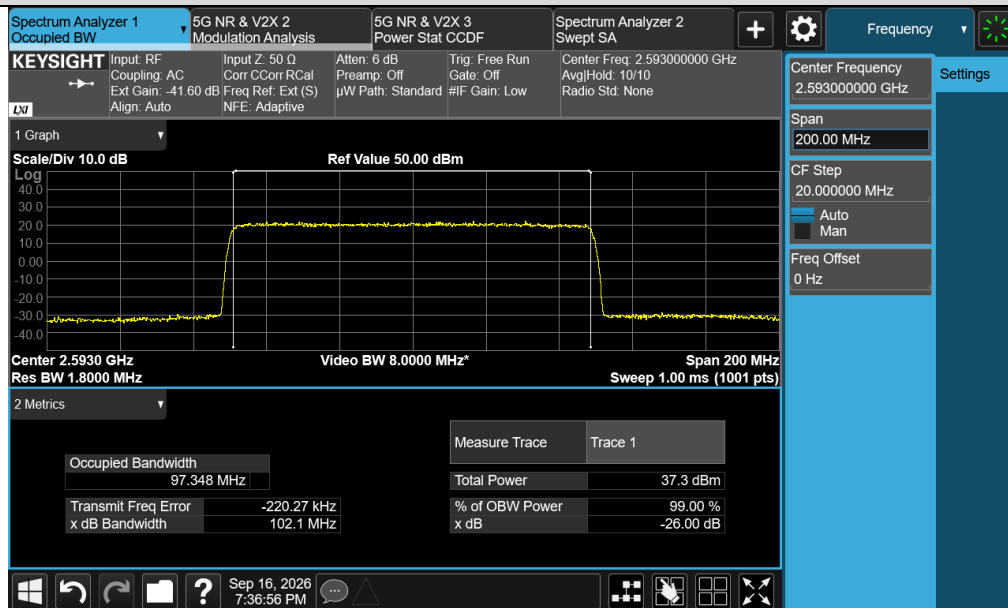
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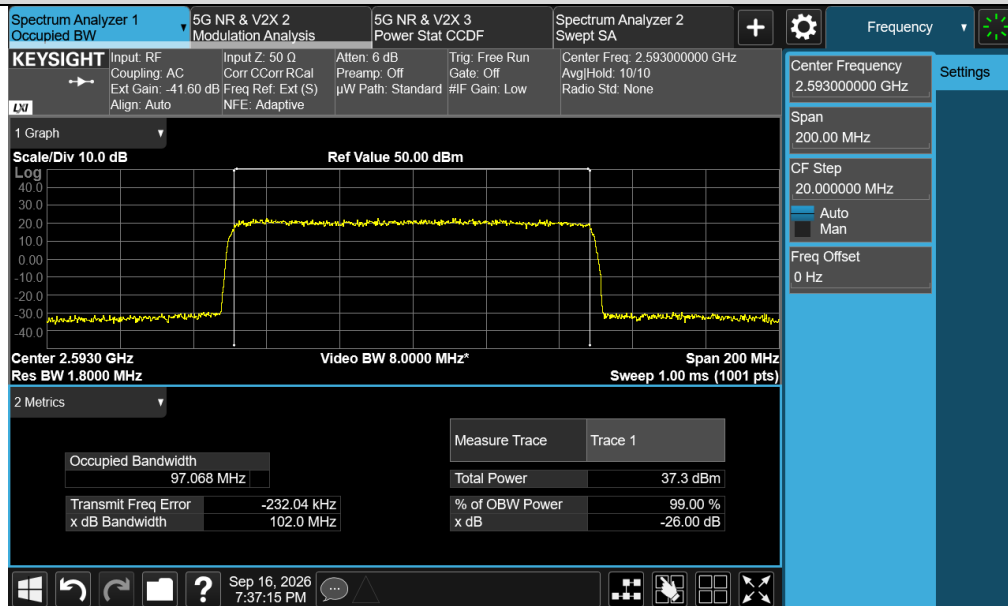
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### 99% OBW

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



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



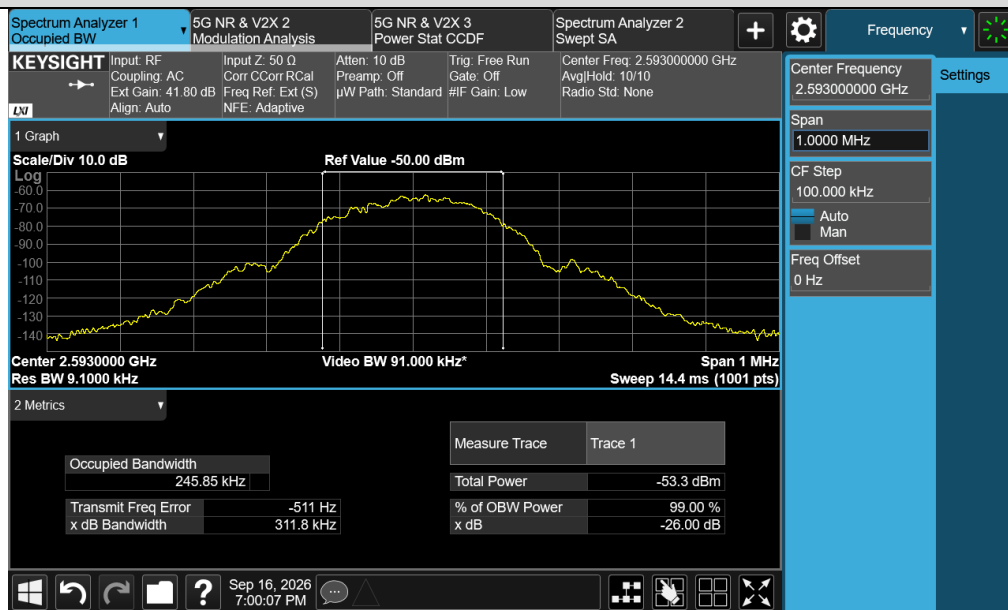
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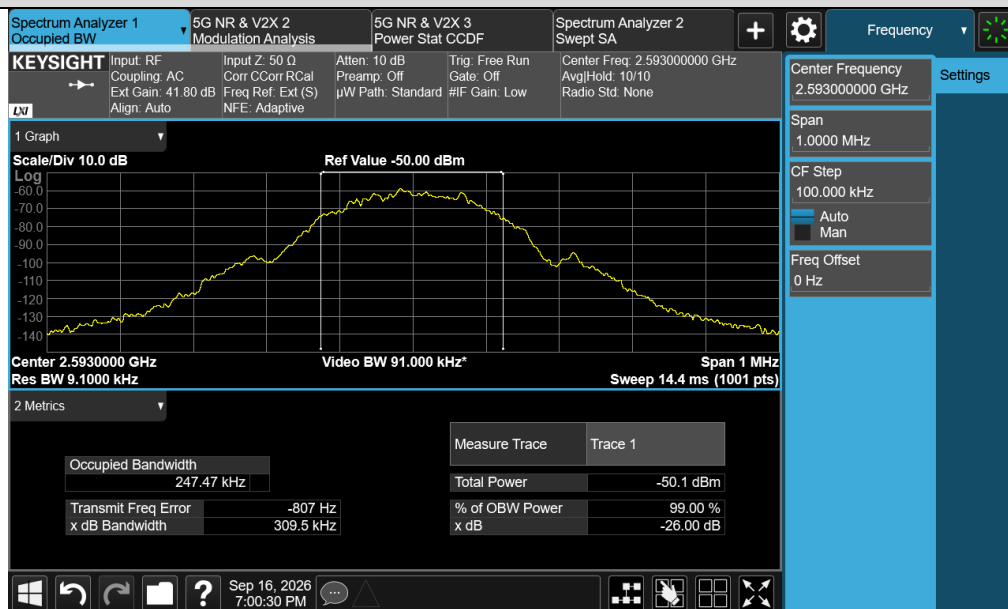
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### DL\_GSM\_MCH\_Input\_Pre-AGC



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



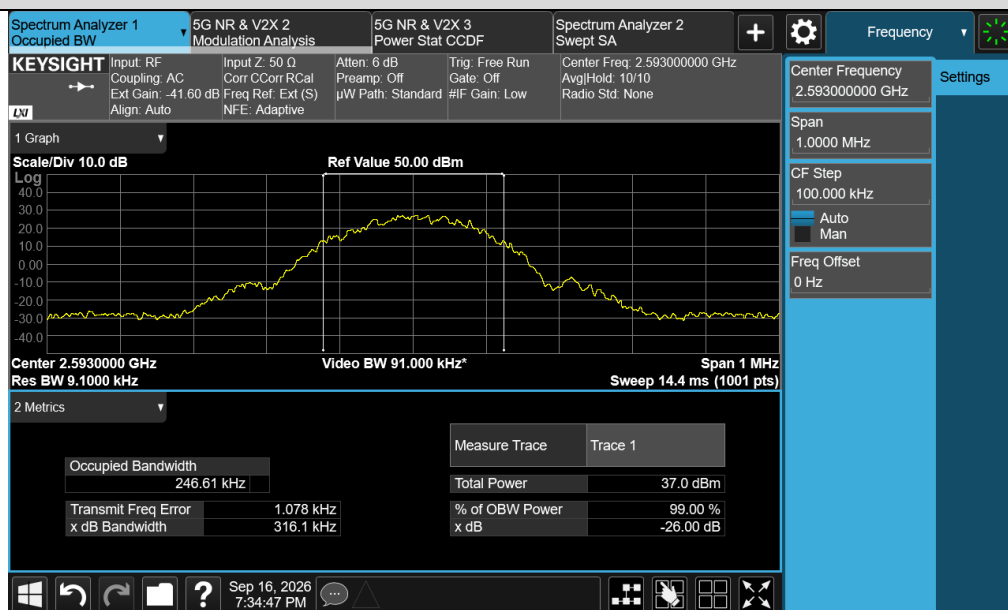
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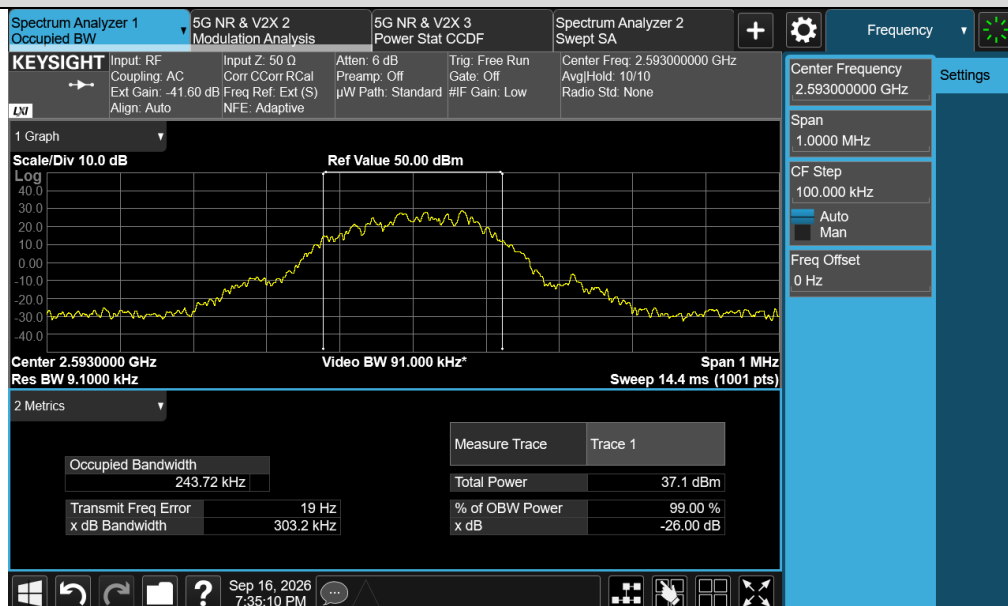
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### DL\_GSM\_MCH\_Output\_Pre-AGC

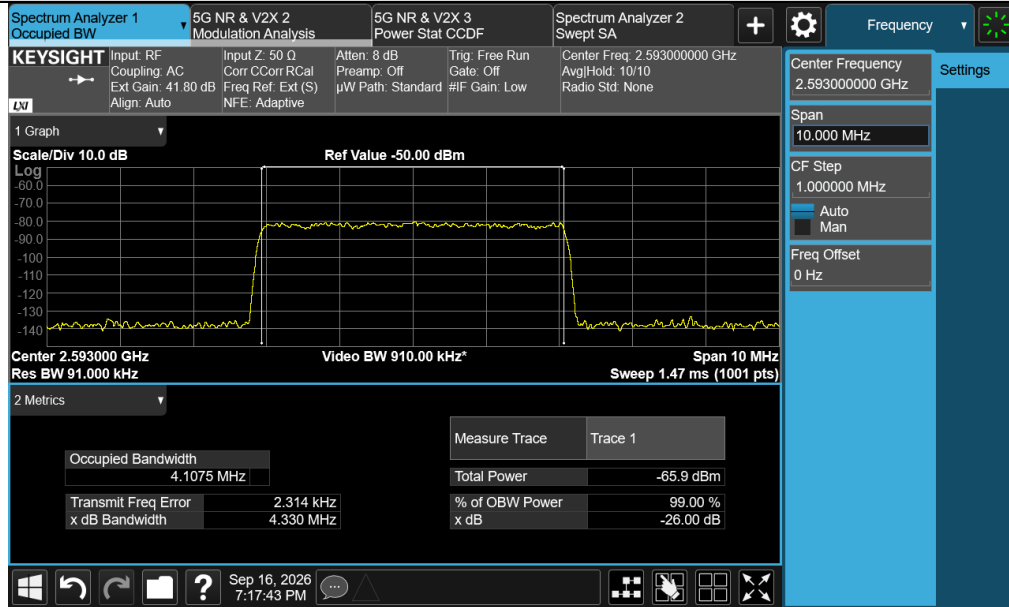


### DL\_GSM\_MCH\_Output\_3dB above AGC

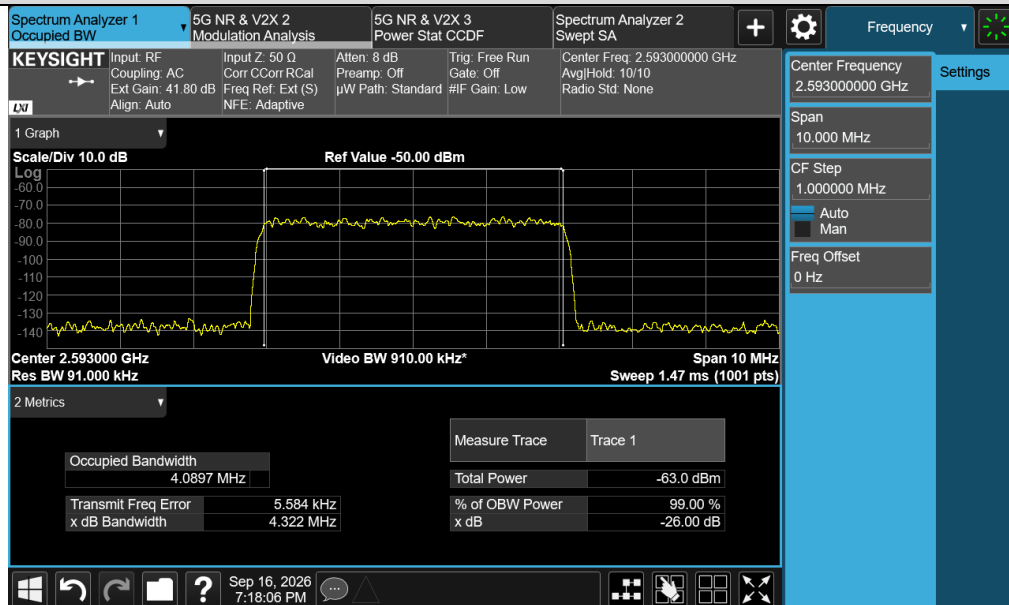


### 99% OBW

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



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



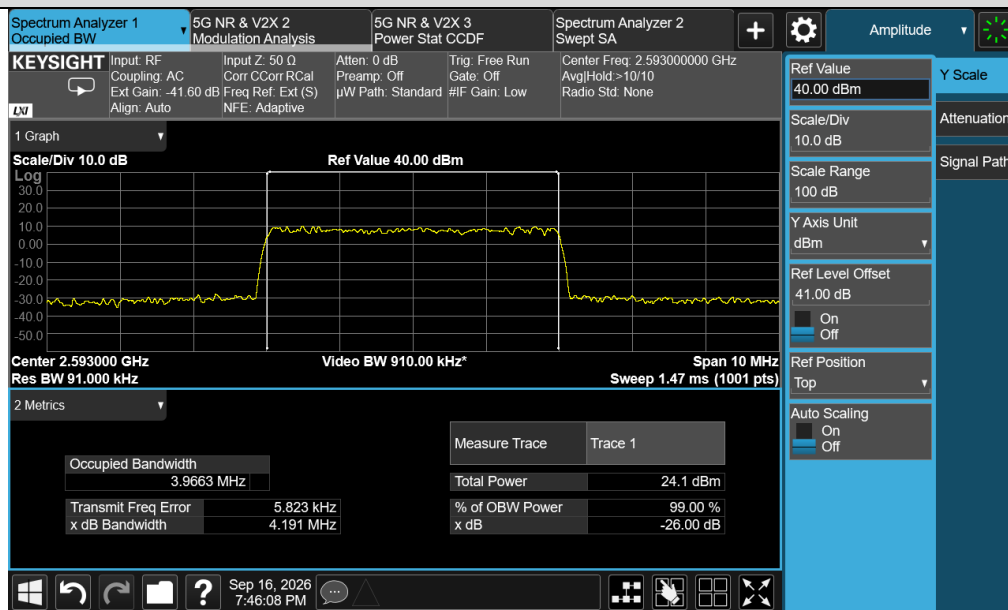
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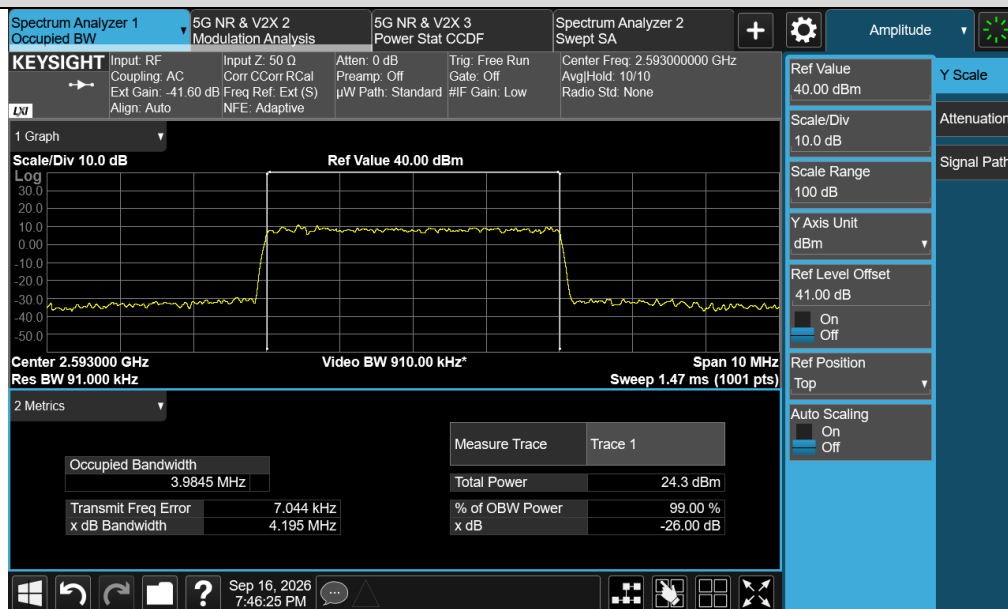
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### 99% OBW

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

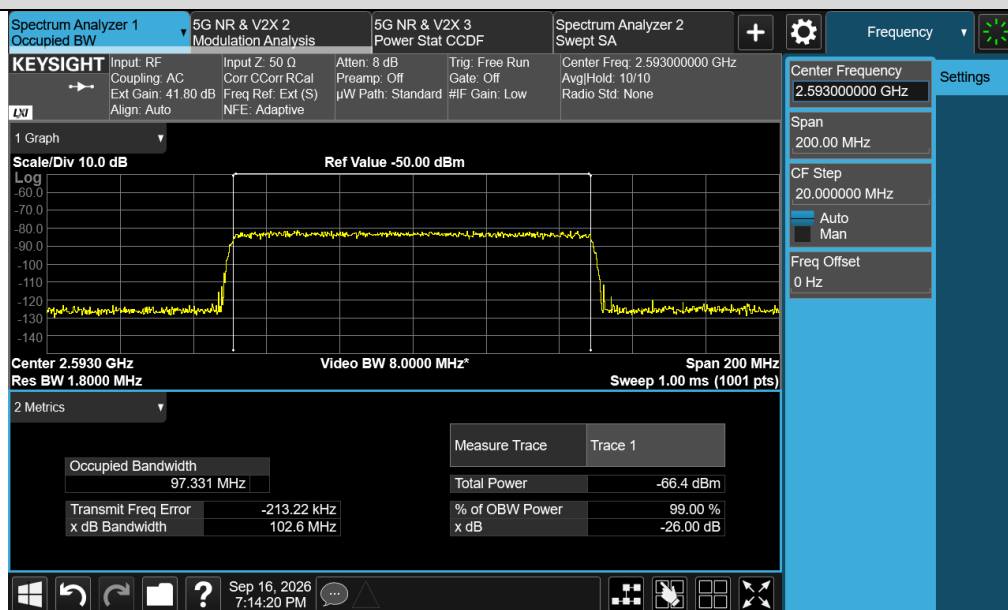


### UL\_4.1MHz AWGN\_MCH\_Output\_3dB above AGC

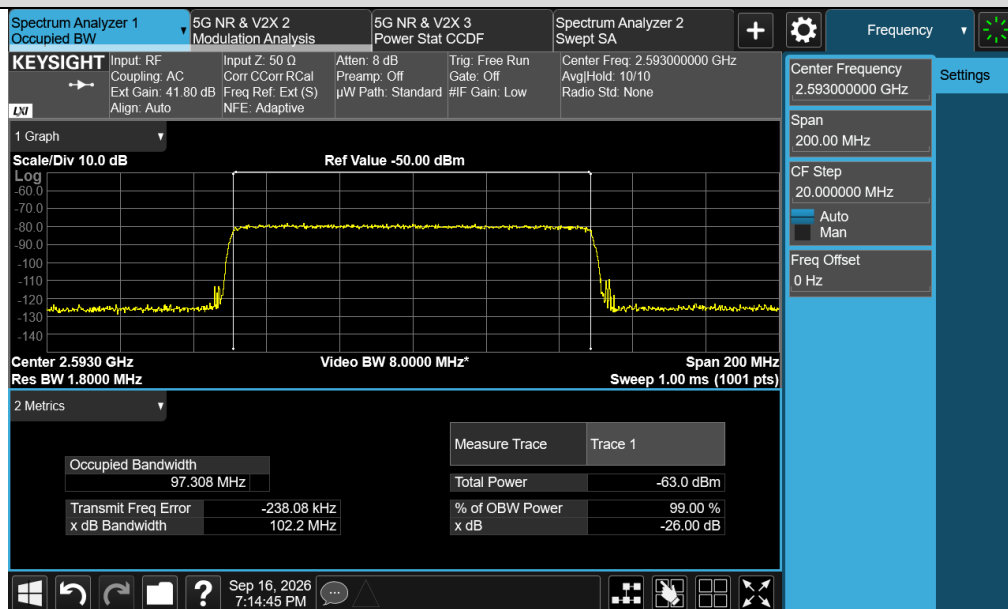


### 99% OBW

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



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



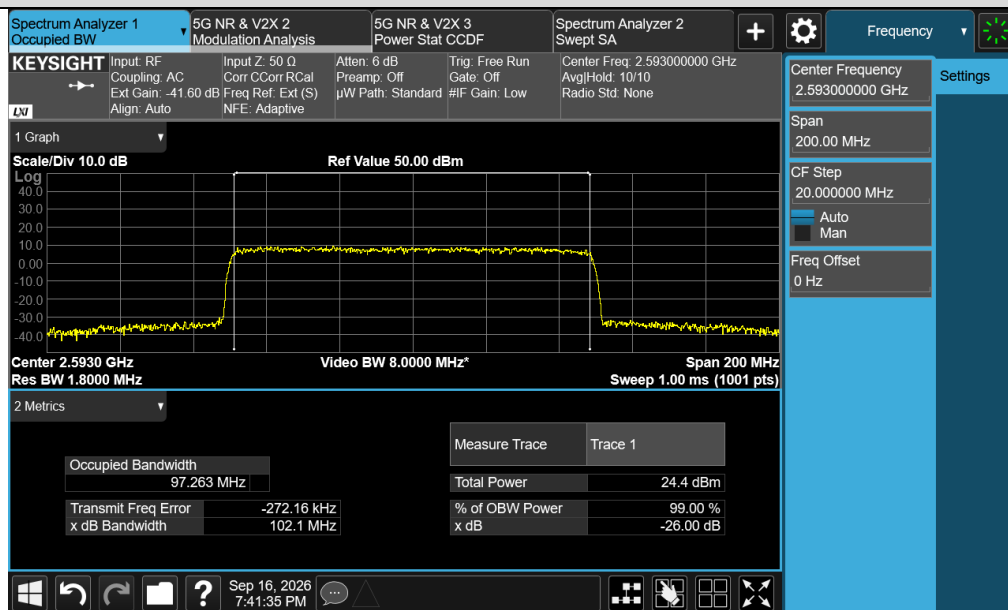
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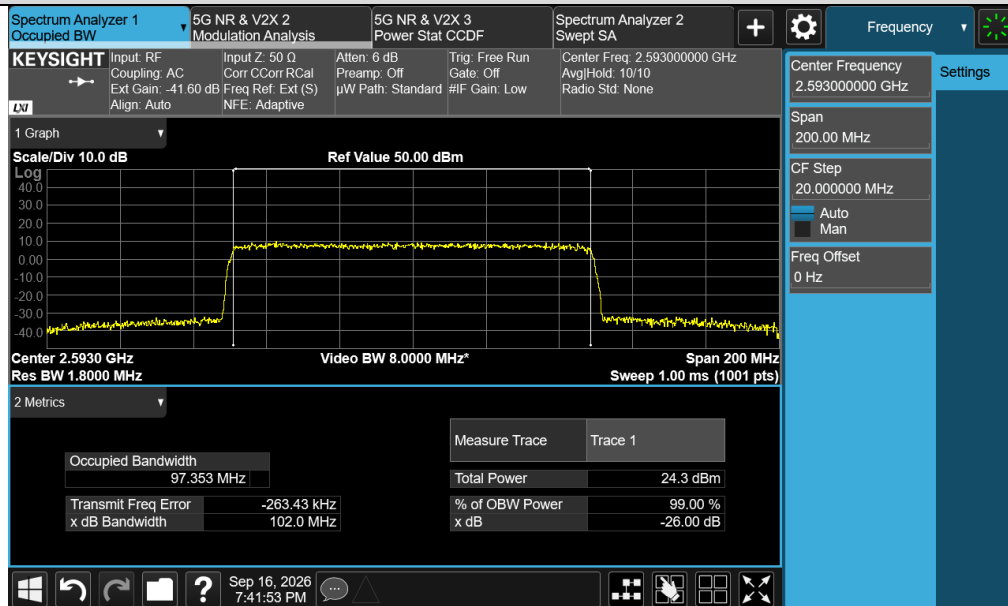
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### 99% OBW

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



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

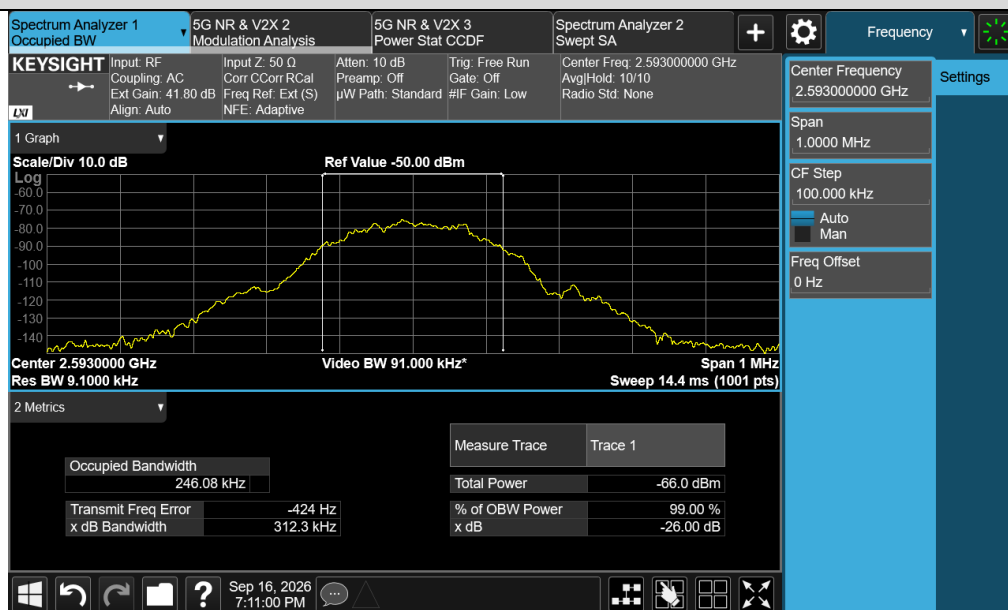


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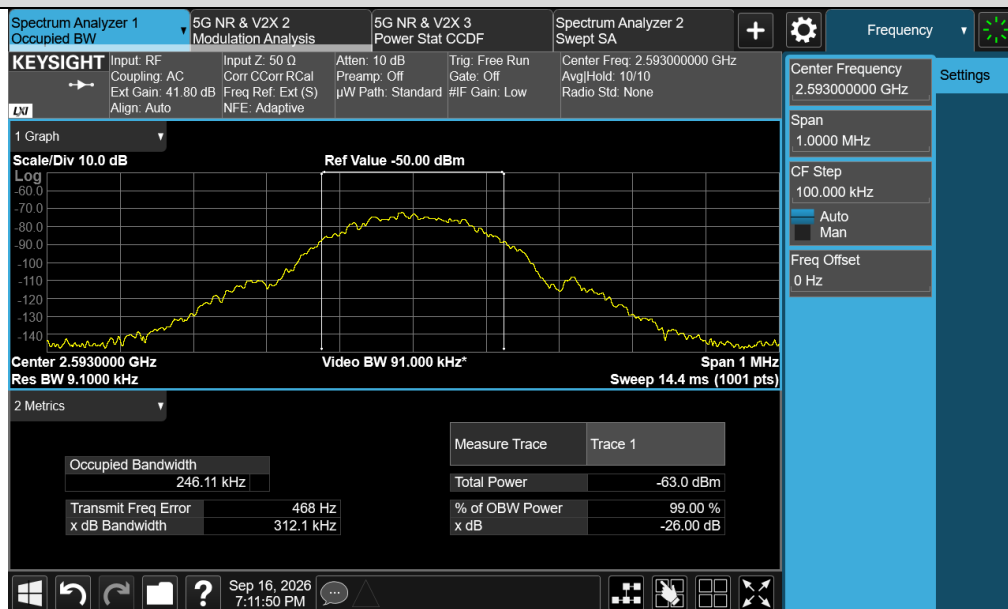
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### UL\_GSM\_MCH\_Input\_Pre-AGC



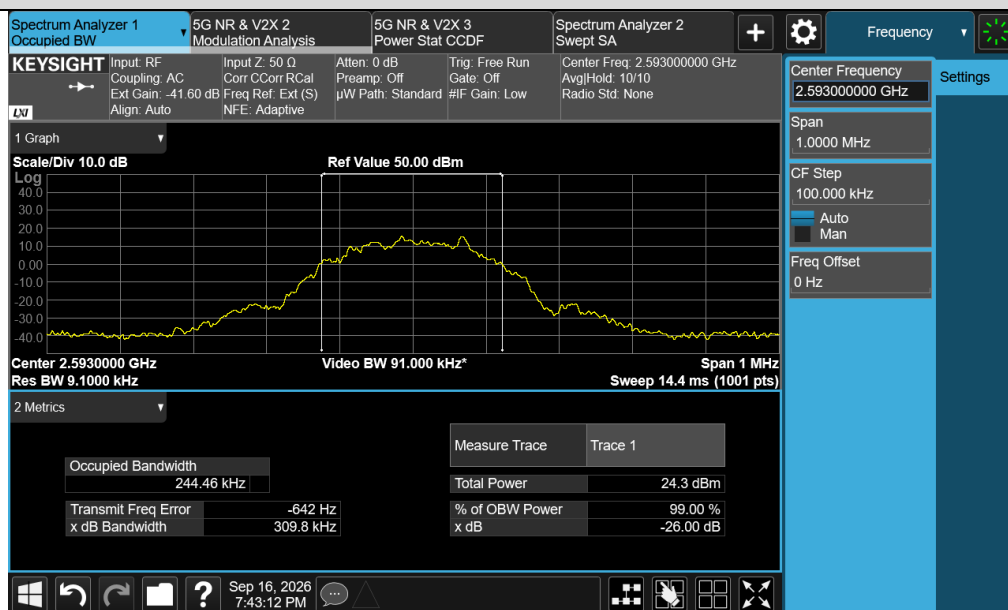
### UL\_GSM\_MCH\_Input\_3dB above AGC



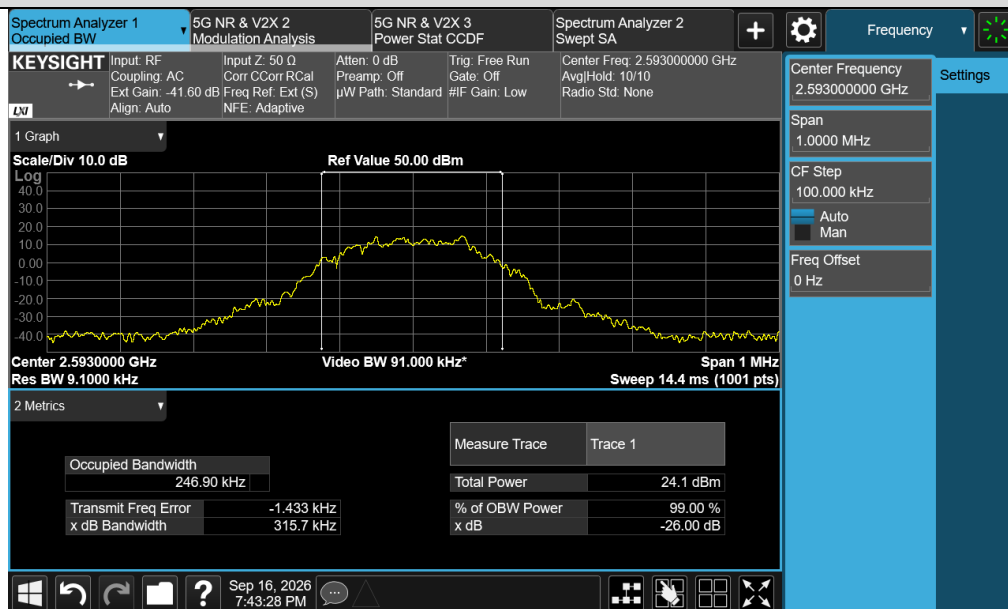
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### 99% OBW

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



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



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### 3 Mean 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) | EIRP (dBm) | EIRP (W)     | Gain (dB) |
| DL                         | 2560.0              | 4.1MHz AWGN | Pre-AGC       | -53               | 37.60              | 47.60      | 57.55        | 90.60     |
|                            |                     |             | 3dB above AGC | -50               | 37.69              | 47.69      | 58.75        | /         |
|                            |                     | 100MHz AWGN | Pre-AGC       | -53               | 37.64              | 47.64      | 58.08        | 90.64     |
|                            |                     |             | 3dB above AGC | -50               | 37.71              | 47.71      | 59.03        | /         |
|                            |                     | GSM         | Pre-AGC       | -53               | 37.64              | 47.64      | 58.08        | 90.64     |
|                            |                     |             | 3dB above AGC | -50               | 37.77              | 47.77      | <b>59.85</b> | /         |
| UL                         | 2506.7              | 4.1MHz AWGN | Pre-AGC       | -66               | 24.72              | 34.72      | 2.97         | 90.72     |
|                            |                     |             | 3dB above AGC | -63               | 24.90              | 34.90      | <b>3.10</b>  | /         |
|                            |                     | 100MHz AWGN | Pre-AGC       | -66               | 24.49              | 34.49      | 2.82         | 90.49     |
|                            |                     |             | 3dB above AGC | -63               | 24.56              | 34.56      | 2.86         | /         |
|                            |                     | GSM         | Pre-AGC       | -66               | 24.66              | 34.66      | 2.93         | 90.66     |
|                            |                     |             | 3dB above AGC | -63               | 24.81              | 34.81      | 3.03         | /         |

#### Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer.
- 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.  
Max EIRP Limit =  $33dBW + 10\lg(X/Y) \text{ dBW} = 33 + 10 \cdot \lg(5/5.5) = 32.59dBW (1815.52W)$



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### 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       | -18.28                           | ≤-13        | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -18.47                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -19.61                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -19.37                           |             | PASS    |
|                                                               | HCH           |             | One signal input   | Pre-AGC       | -19.44                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -18.36                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -20.04                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -20.81                           |             | PASS    |
| DL                                                            | LCH           | 100MHz AWGN | One signal input   | Pre-AGC       | -15.98                           | ≤-13        | PASS    |
|                                                               | 3dB above AGC |             |                    | -15.70        | PASS                             |             |         |
|                                                               | HCH           |             | One signal input   | Pre-AGC       | -17.29                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -16.94                           |             | PASS    |
| DL                                                            | LCH           | GSM*        | One signal input   | Pre-AGC       | -35.22                           | ≤-13        | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -35.48                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -35.29                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -35.48                           |             | PASS    |
|                                                               | HCH           |             | One signal input   | Pre-AGC       | -34.81                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -34.67                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -34.92                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -34.83                           |             | PASS    |

#### Remark:

- 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,  
 $P = 33\text{dBm} = 2\text{W}$   
the limit =  $33\text{dBm} - [43 + 10\log_{10}(2\text{W})]\text{dB} = -13\text{dBm}$
- \*: To ensure measurement accuracy, alternative RBW=100kHz was utilized for out-of-band emission testing outside the 1 MHz band edge, instead of the RBW=1 MHz specified by the standard. Final results shall be calculated based on the readings shown in the test plot, with the calculation formula:  
Final Level= Read Level+  $10*\log(1\text{MHz}/100\text{kHz})$ = Read Level+ 10dB



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038501

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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 |
| UL                                                            | LCH           | 4.1MHz AWGN | One signal input   | Pre-AGC       | -29.13                           | ≤-13        | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -27.07                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -28.96                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -27.68                           |             | PASS    |
|                                                               | HCH           |             | One signal input   | Pre-AGC       | -31.41                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -30.98                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -32.45                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -31.17                           |             | PASS    |
| UL                                                            | LCH           | 100MHz AWGN | One signal input   | Pre-AGC       | -19.18                           | ≤-13        | PASS    |
|                                                               | 3dB above AGC |             |                    | -18.61        | PASS                             |             |         |
|                                                               | HCH           |             | One signal input   | Pre-AGC       | -21.17                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -20.44                           |             | PASS    |
| UL                                                            | LCH           | GSM*        | One signal input   | Pre-AGC       | -46.67                           | ≤-13        | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -46.99                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -46.75                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -46.32                           |             | PASS    |
|                                                               | HCH           |             | One signal input   | Pre-AGC       | -45.98                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -46.17                           |             | PASS    |
|                                                               |               |             | Two signals input  | Pre-AGC       | -45.95                           |             | PASS    |
|                                                               |               |             |                    | 3dB above AGC | -45.53                           |             | PASS    |

### Remark:

- 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,  
 $P = 17\text{dBm} = 0.051\text{W}$   
the limit =  $17\text{dBm} - [43 + 10\log_{10}(0.051\text{W})]\text{dB} = -13\text{dBm}$
- \*: To ensure measurement accuracy, alternative RBW=100kHz was utilized for out-of-band emission testing outside the 1 MHz band edge, instead of the RBW=1 MHz specified by the standard. Final results shall be calculated based on the readings shown in the test plot, with the calculation formula:  
Final Level= Read Level+  $10 \cdot \log(1\text{MHz}/100\text{kHz}) = \text{Read Level} + 10\text{dB}$

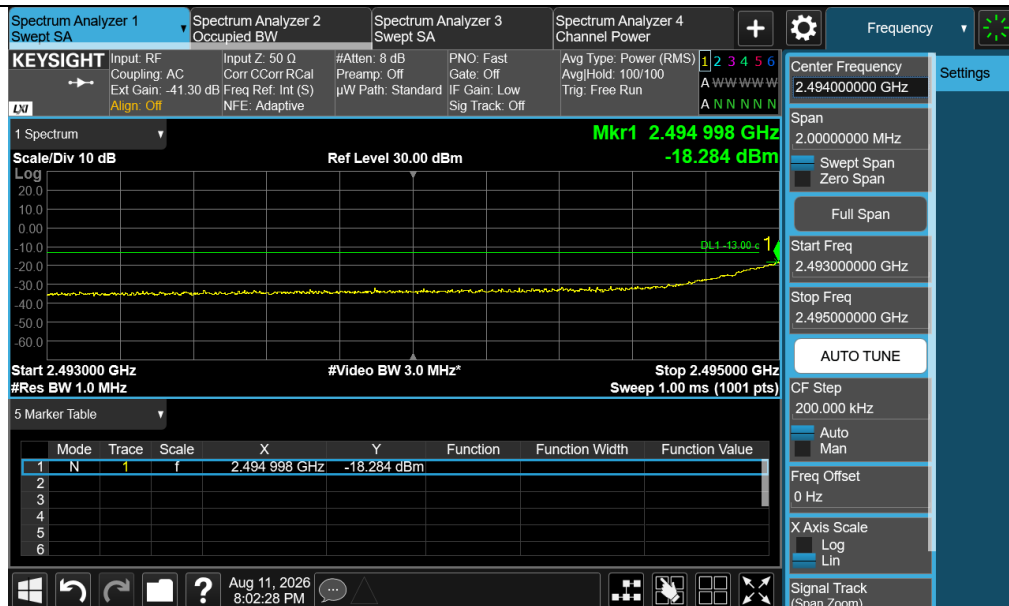
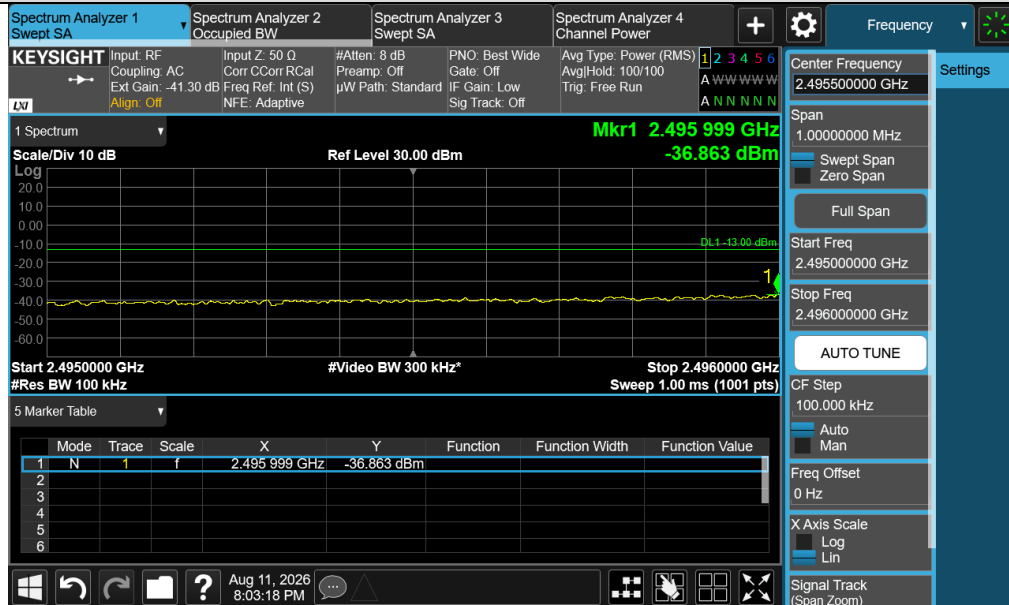


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### Out-of-band/out-of-block emissions

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

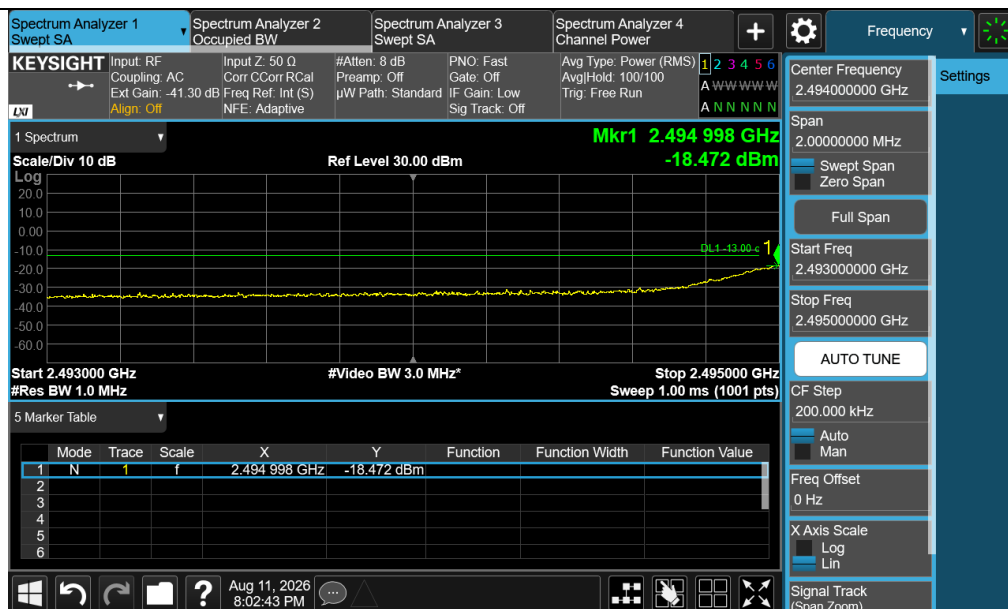
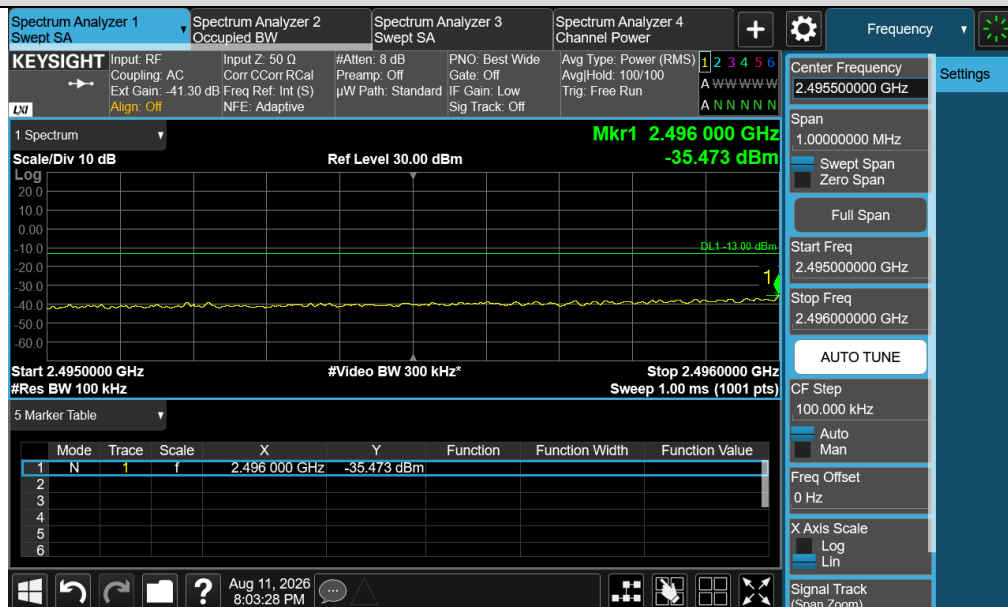


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### Out-of-band/out-of-block emissions

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

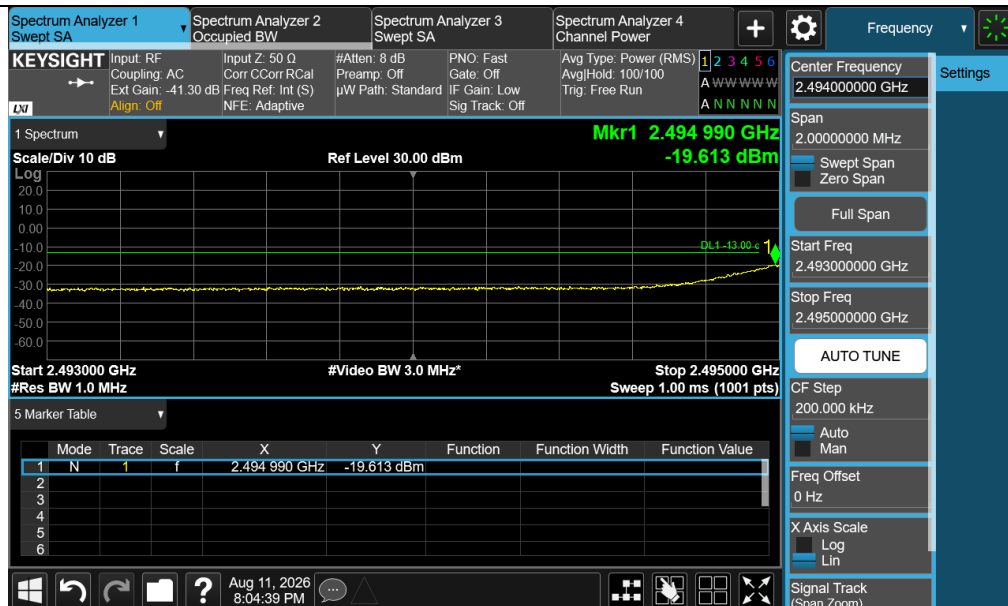
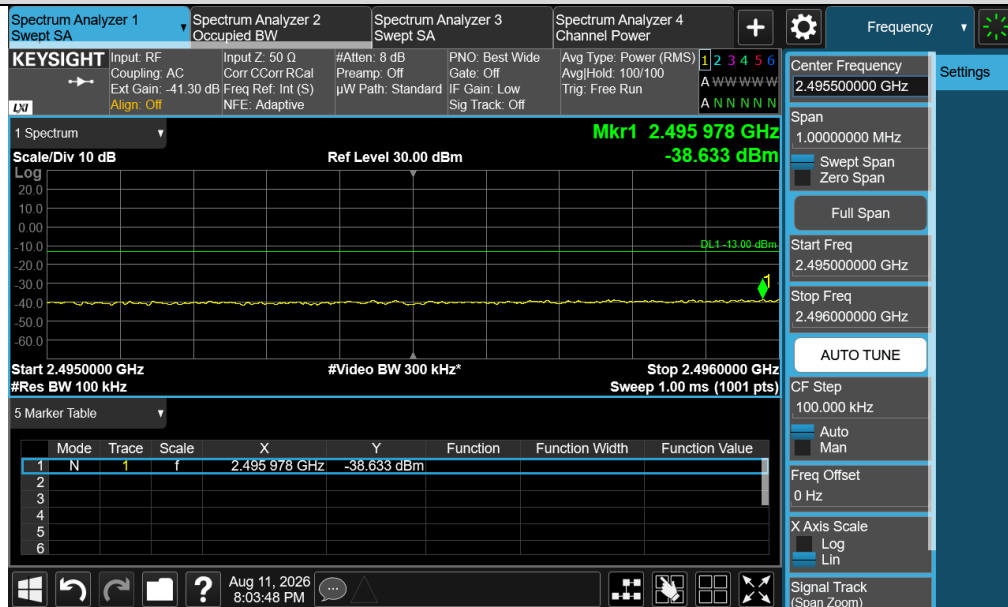


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### Out-of-band/out-of-block emissions

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

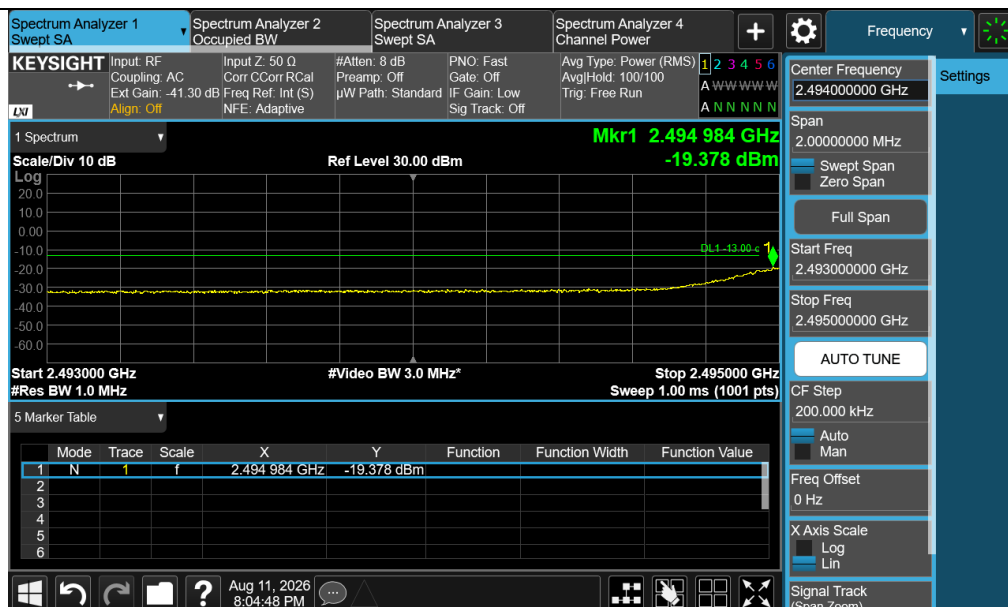
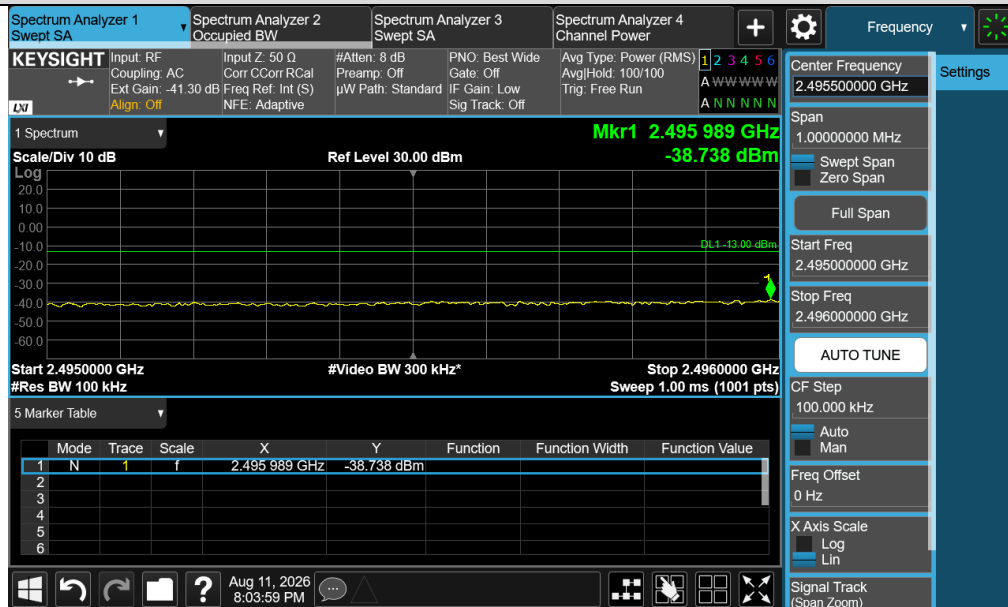


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### Out-of-band/out-of-block emissions

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

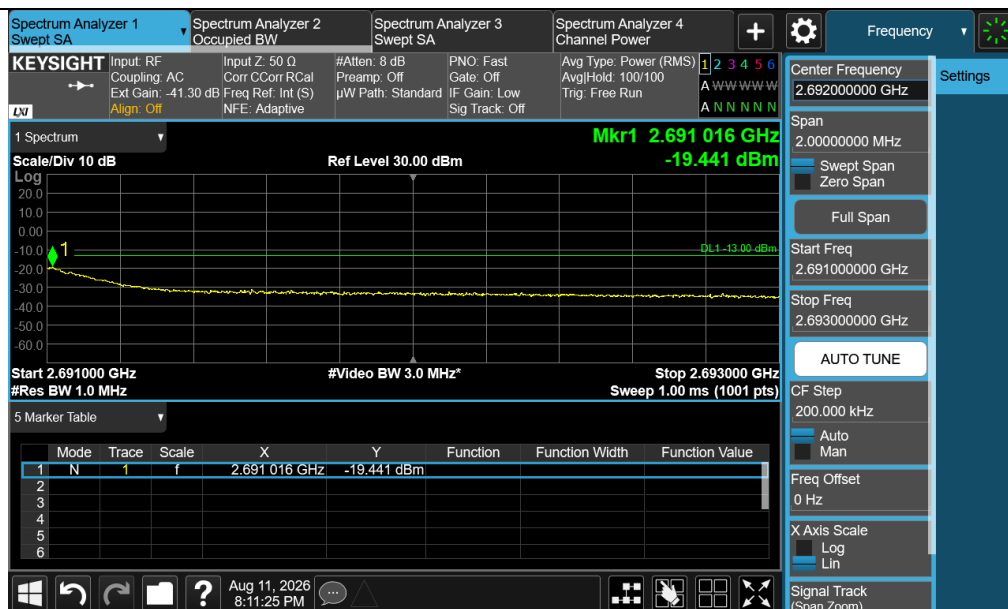
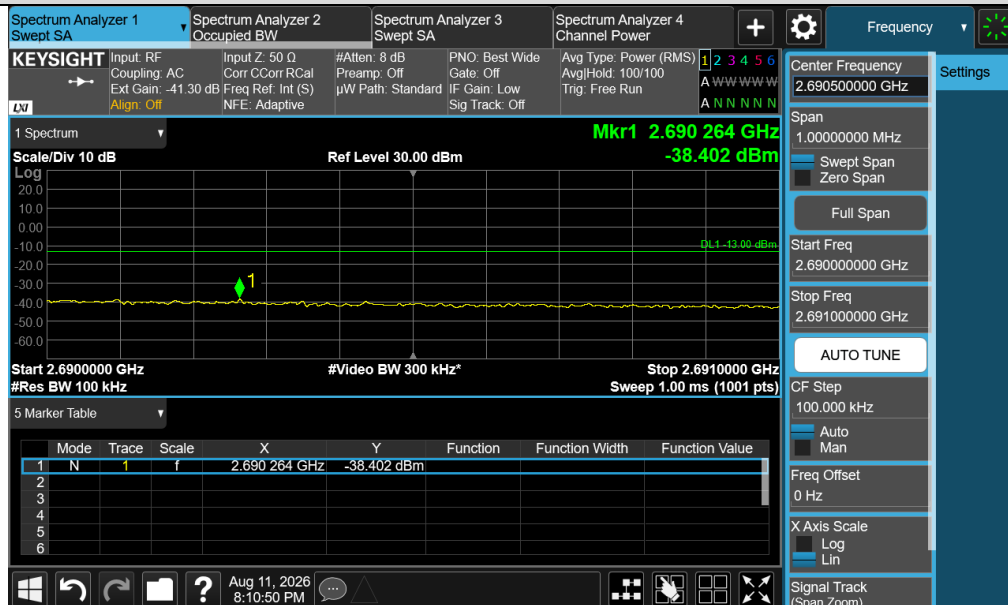


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### Out-of-band/out-of-block emissions

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



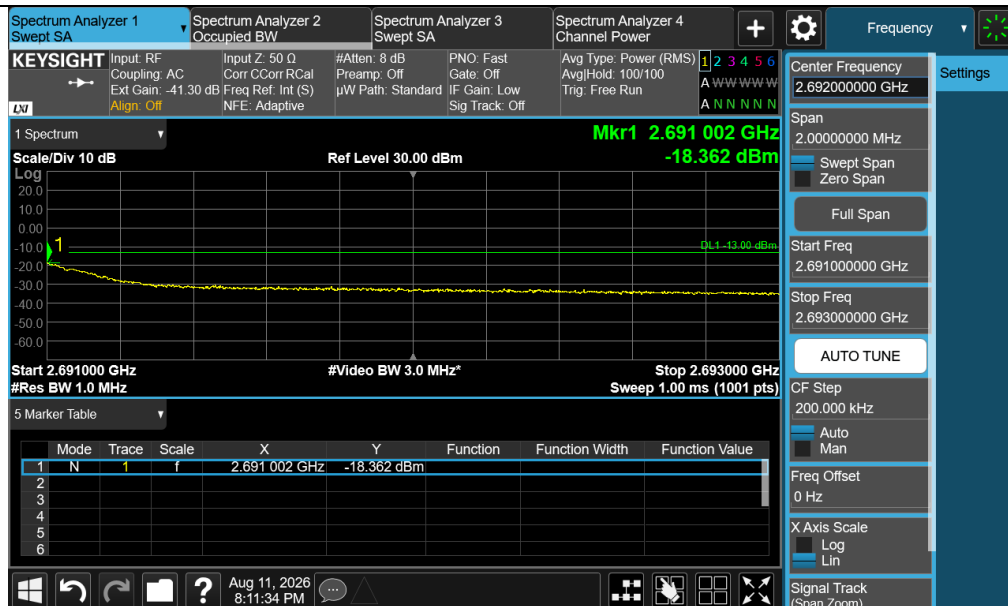
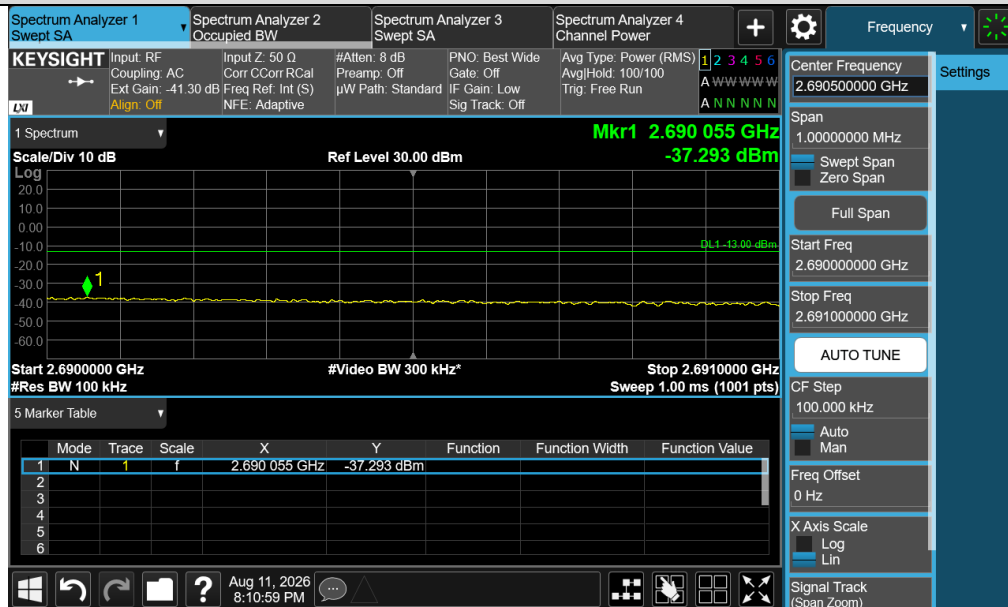
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### Out-of-band/out-of-block emissions

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



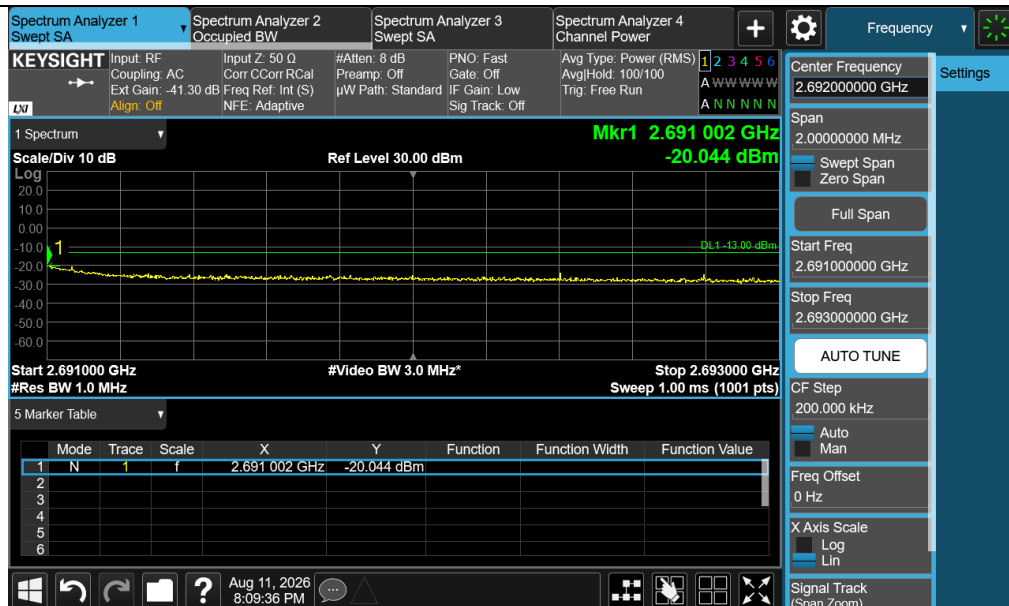
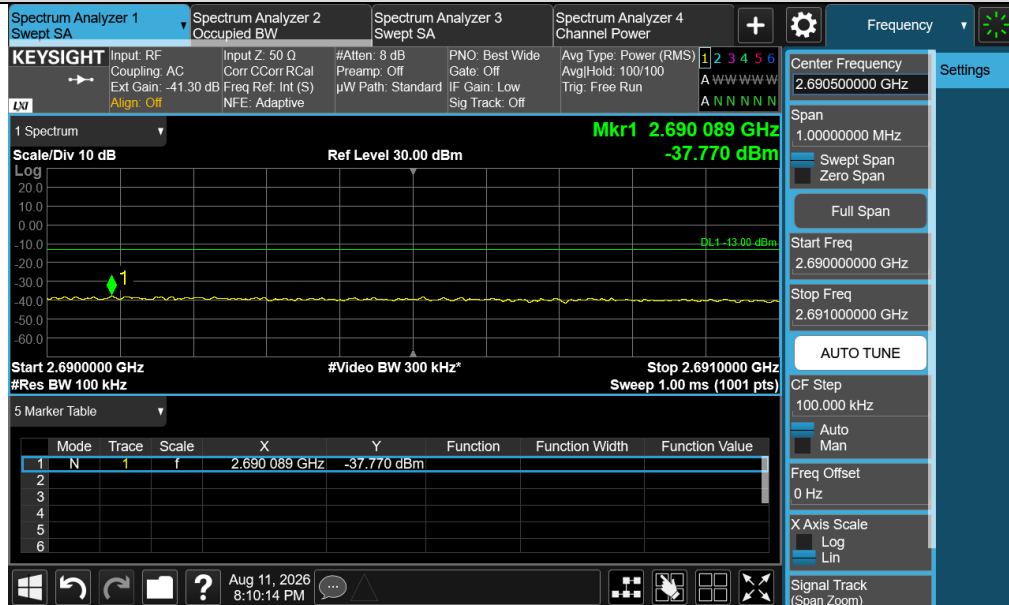
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### Out-of-band/out-of-block emissions

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



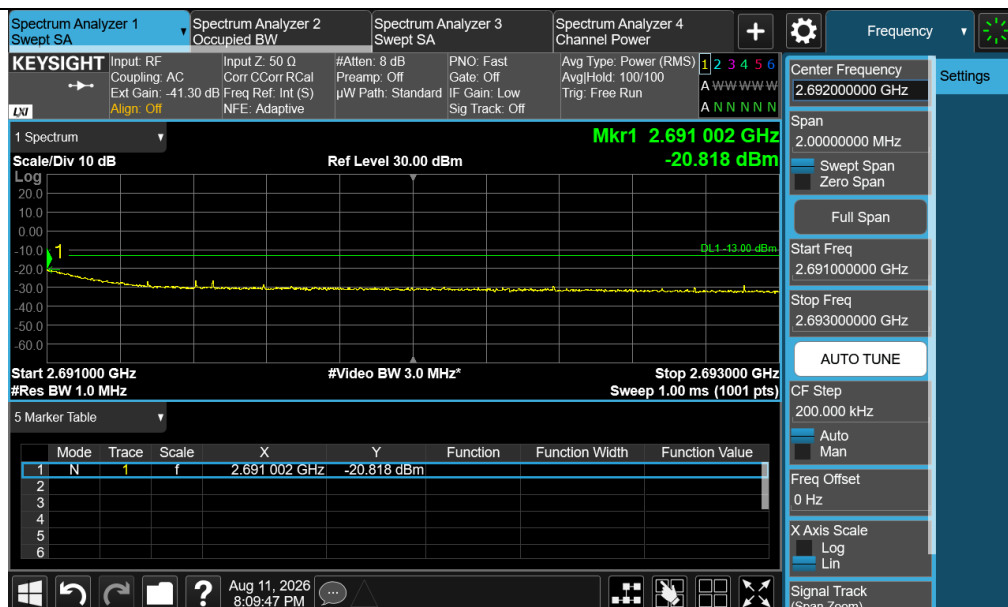
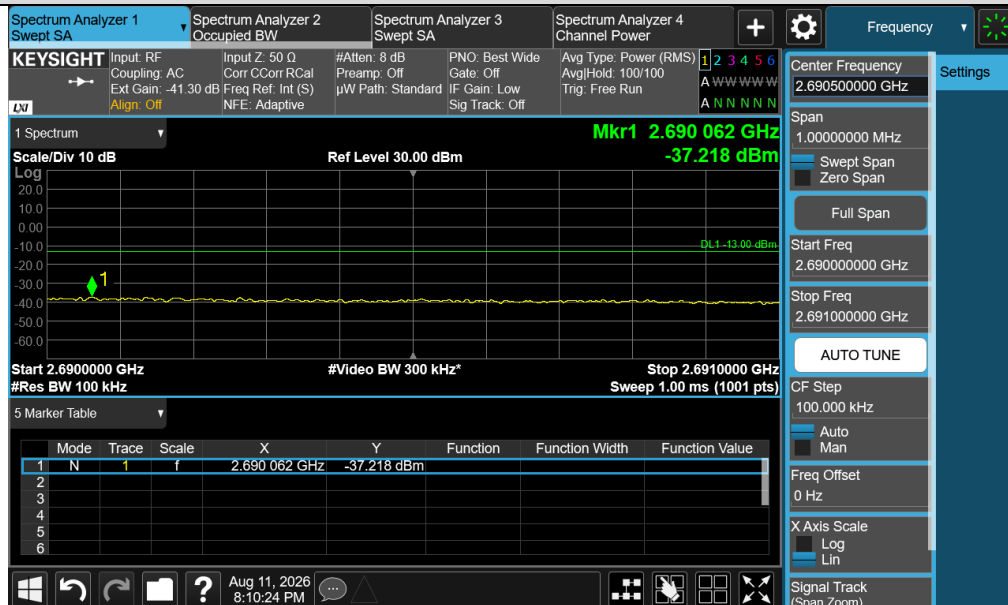
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### Out-of-band/out-of-block emissions

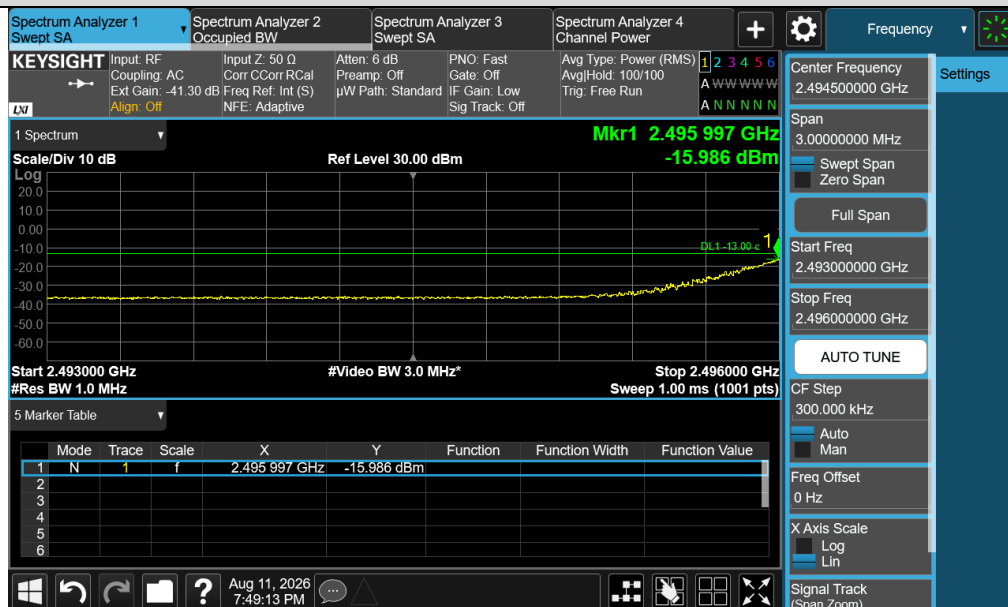
#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC



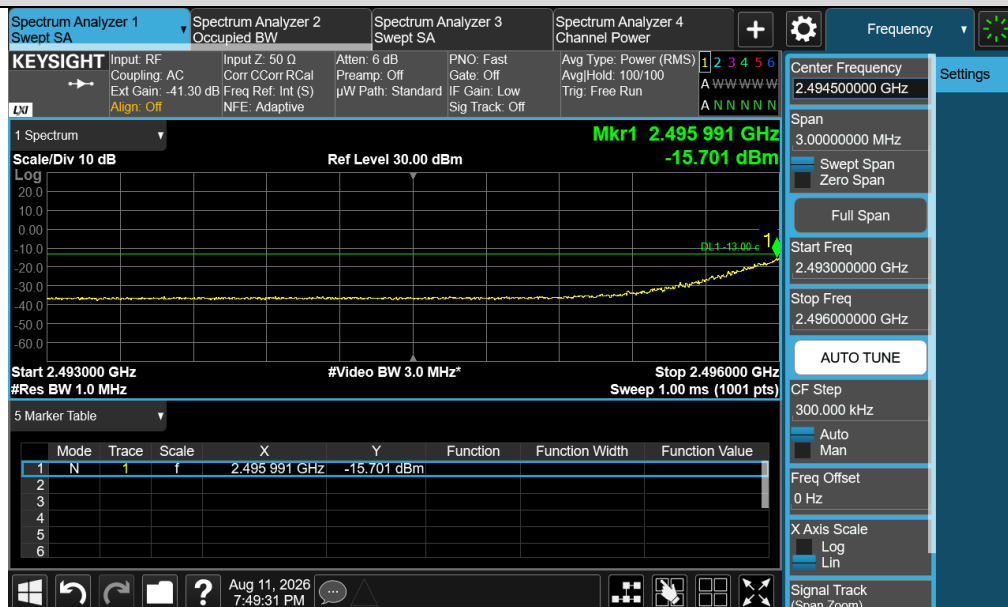
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### Out-of-band/out-of-block emissions

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



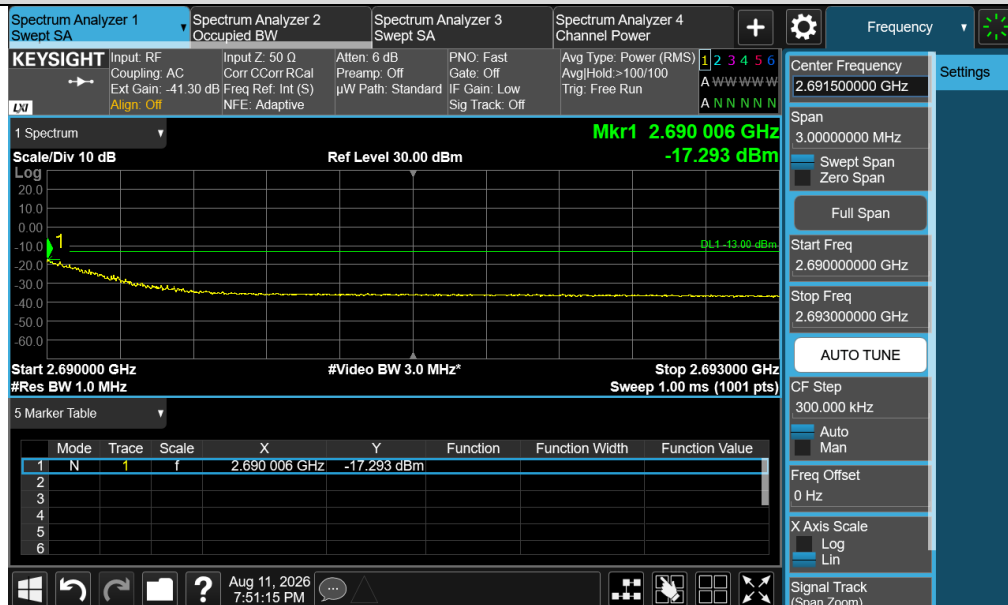
#### DL\_100MHz AWGN\_LCH\_a single test signal\_3dB above AGC



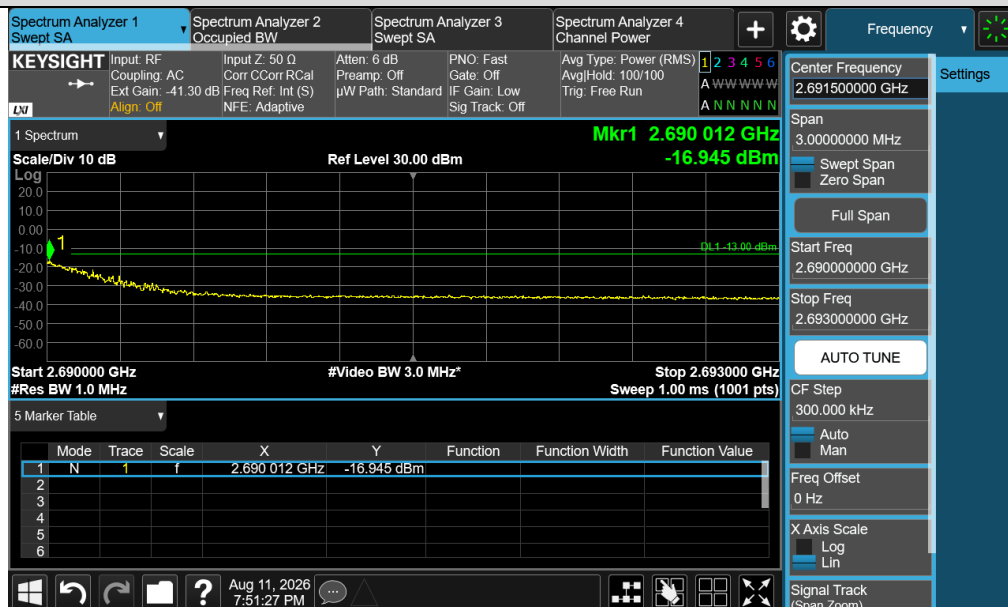
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### Out-of-band/out-of-block emissions

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



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



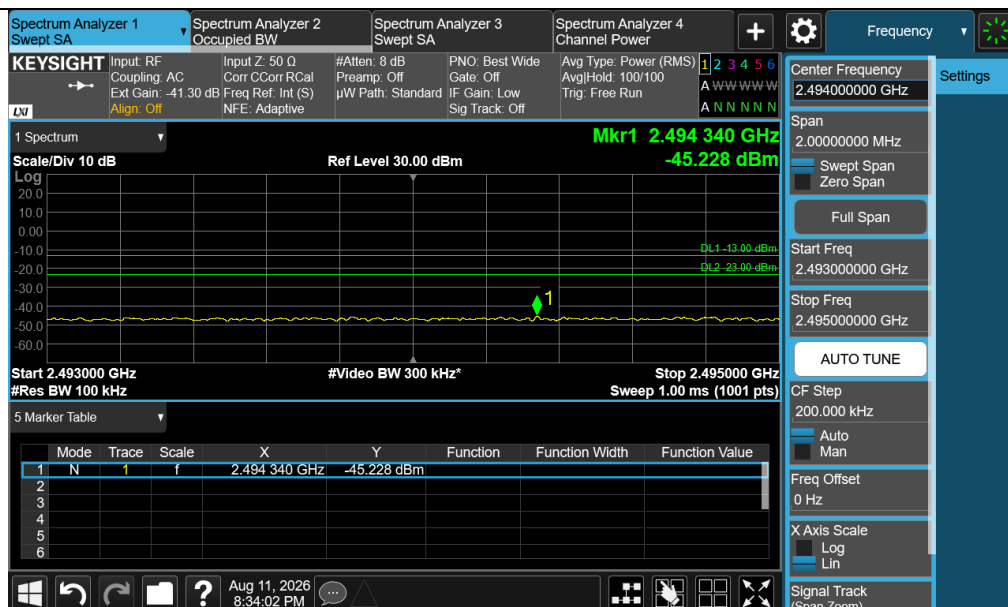
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### Out-of-band/out-of-block emissions

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



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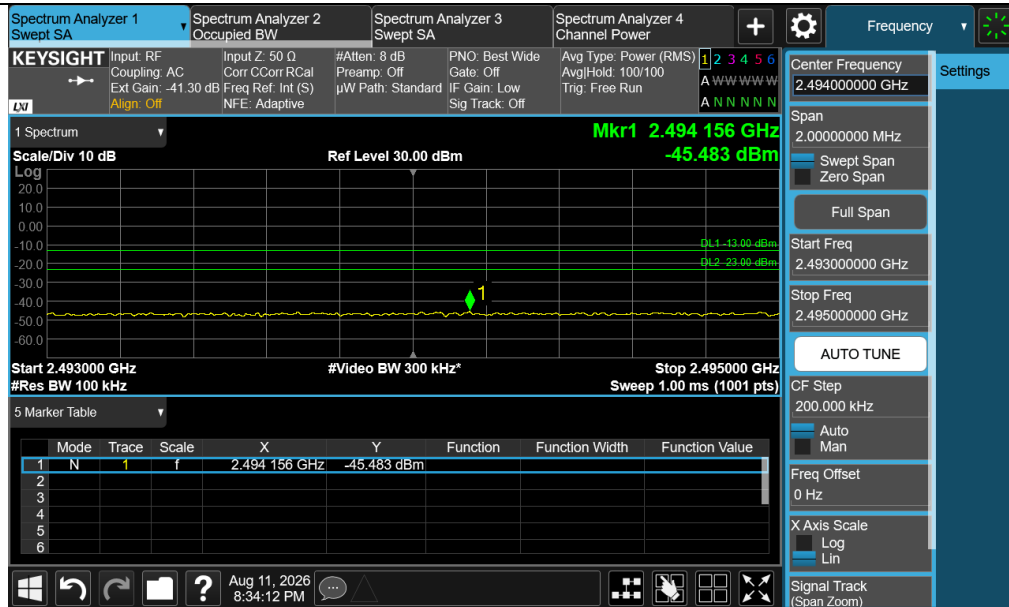
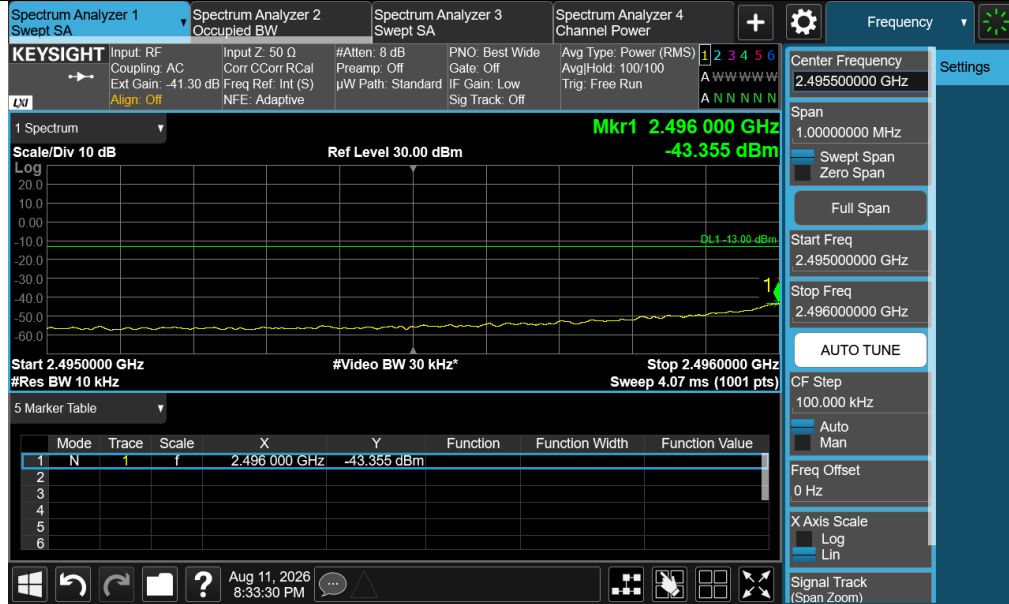
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### Out-of-band/out-of-block emissions

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

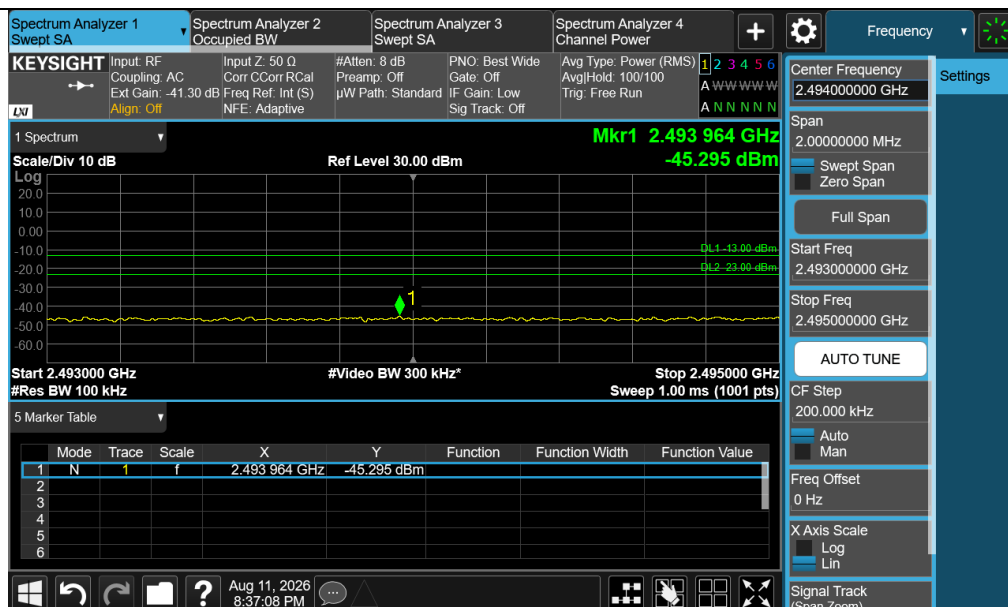


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### Out-of-band/out-of-block emissions

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



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