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Report No.: 1501RSU00404  
Report Version: V01  
Issue Date: 03-12-2015

## Co-location Report

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**FCC ID:** 2AC9MADTRAN424RG

**APPLICANT:** Wuxi MitraStar Technology Co., Ltd

**Application Type:** Certification

**Product:** Indoor GPON HGU

**Model No.:** 424RG

**Trademark:** ADTRAN

**FCC Classification:** Digital Transmission System (DTS)  
Unlicensed National Information Infrastructure (UNII)

**Test Date:** Jan. 13 ~ Feb. 06, 2015

Reviewed By : Robin Wu  
( Robin Wu )

Approved By : Marlin Chen  
( Marlin Chen )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2009. Test results reported herein relate only to the item(s) tested.

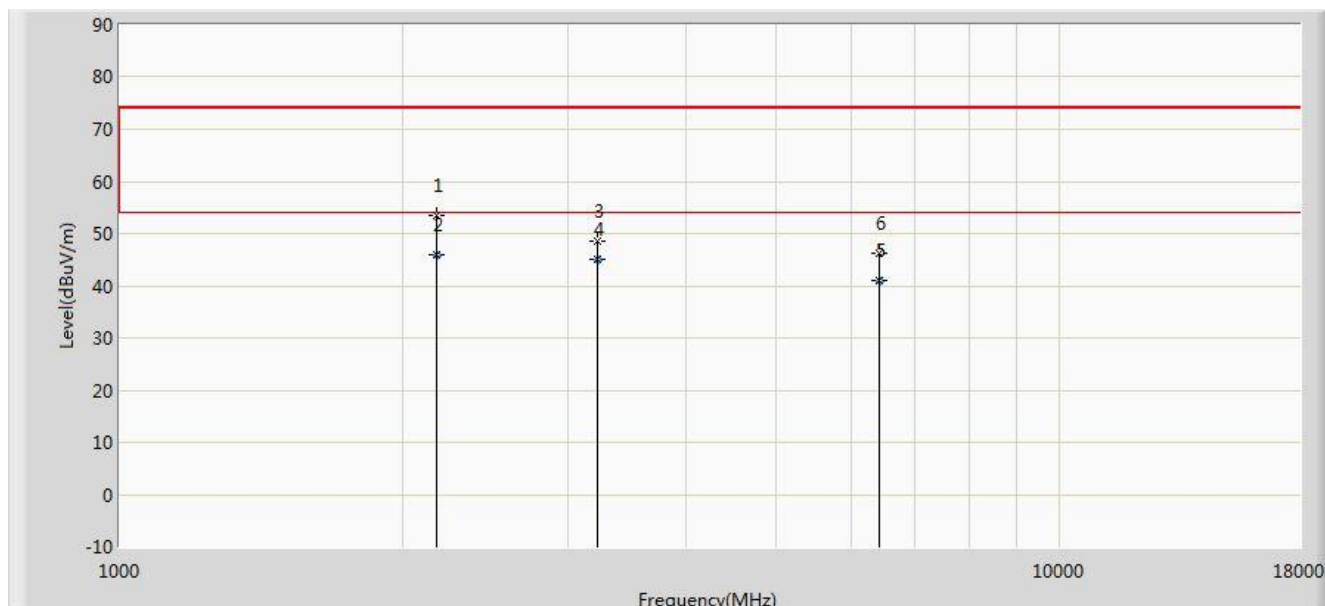
The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

## Revision History

| Report No.   | Version | Description    | Issue Date |
|--------------|---------|----------------|------------|
| 1501RSU00404 | Rev. 01 | Initial report | 03-12-2015 |
|              |         |                |            |

## 1. TEST RESULT of Radiated Emissions for Co-located

|                |                                                                                                                                |            |            |
|----------------|--------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| Test Mode:     | 2.4GHz + 5GHz Transmit                                                                                                         | Test Site: | AC1        |
| Test Engineer: | Roy Cheng                                                                                                                      | Polarity:  | Horizontal |
| Remark:        | There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report. |            |            |

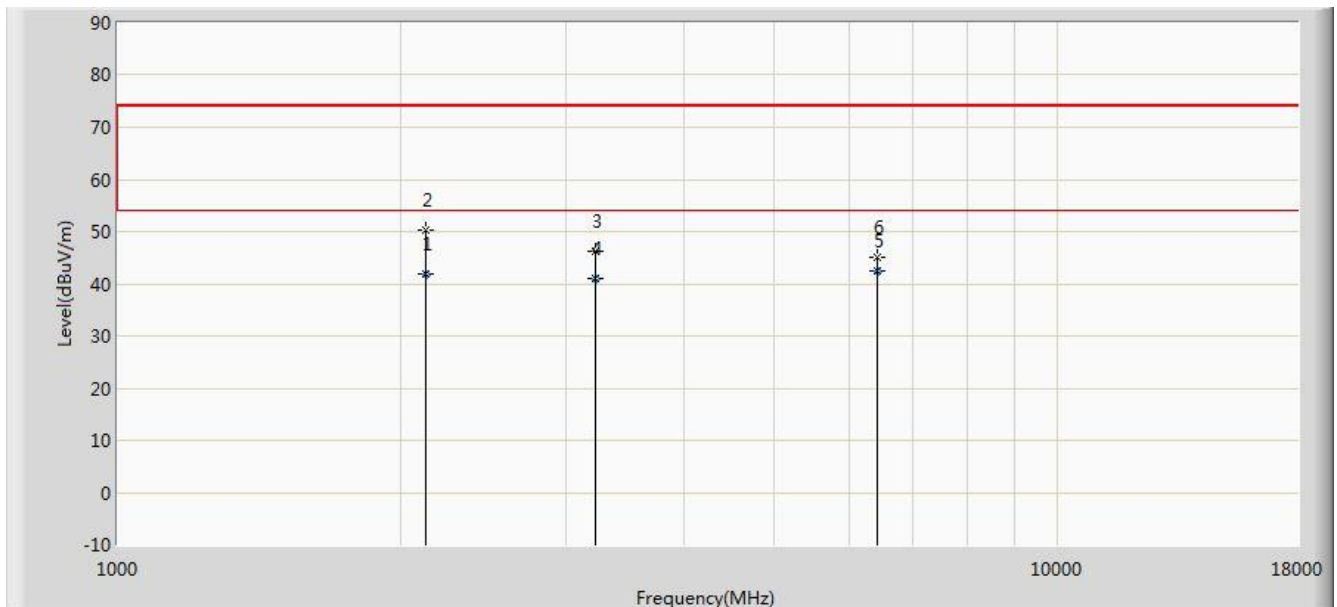


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2173.000        | 53.548                 | 57.455               | -20.452         | 74.000         | -3.907      | PK   |
| 2  |      | *    | 2173.636        | 45.799                 | 49.699               | -8.201          | 54.000         | -3.900      | AV   |
| 3  |      |      | 3218.500        | 48.521                 | 50.155               | -25.479         | 74.000         | -1.634      | PK   |
| 4  |      |      | 3218.655        | 45.001                 | 46.635               | -8.999          | 54.000         | -1.634      | AV   |
| 5  |      |      | 6431.260        | 40.998                 | 35.360               | -13.002         | 54.000         | 5.638       | AV   |
| 6  |      |      | 6431.500        | 46.113                 | 40.473               | -27.887         | 74.000         | 5.640       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

|                |                                                                                                                                |            |          |
|----------------|--------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| Test Mode:     | 2.4GHz + 5GHz Transmit                                                                                                         | Test Site: | AC1      |
| Test Engineer: | Roy Cheng                                                                                                                      | Polarity:  | Vertical |
| Remark:        | There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report. |            |          |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor (dB) | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 1  |      |      | 2130.255        | 41.986                 | 46.358               | -12.014         | 54.000         | -4.373      | AV   |
| 2  |      |      | 2130.500        | 50.290                 | 54.660               | -23.710         | 74.000         | -4.369      | PK   |
| 3  |      |      | 3218.500        | 46.101                 | 47.735               | -27.899         | 74.000         | -1.634      | PK   |
| 4  |      |      | 3218.625        | 40.998                 | 42.632               | -13.002         | 54.000         | -1.634      | AV   |
| 5  |      | *    | 6431.254        | 42.590                 | 36.952               | -11.410         | 54.000         | 5.638       | AV   |
| 6  |      |      | 6431.500        | 44.969                 | 39.329               | -29.031         | 74.000         | 5.640       | PK   |

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

The End