

FCC PART 15.231  
EMI MEASUREMENT AND TEST REPORT

For

**Agilon Technology (Shenzhen) Co., Ltd.**

C-6F, HuaHan Chuangxin Block, KeYuan Road, Hi-Tech Industry Zone, Shenzhen, China

**FCC ID: TUCTA21TA23**

|                                                                                     |                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>This Report Concerns:</b><br><input checked="" type="checkbox"/> Original Report | <b>Equipment Type:</b><br>Remote Control                                                                                                                                                                                               |
| <b>Test Engineer:</b>                                                               | William Chen <i>William . Chan .</i>                                                                                                                                                                                                   |
| <b>Report No.:</b>                                                                  | RSZ06102656                                                                                                                                                                                                                            |
| <b>Test Date:</b>                                                                   | 2006-10-27 to 2006-11-20                                                                                                                                                                                                               |
| <b>Report Date:</b>                                                                 | 2006-11-20                                                                                                                                                                                                                             |
| <b>Reviewed By:</b>                                                                 | EMC Manager: Boni Baniqued <i>[Signature]</i>                                                                                                                                                                                          |
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**Note:** This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratory Corp. (Shenzhen). This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP or any agency of the U.S. Government.

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## GENERAL INFORMATION

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### Product Description for Equipment Under Test (EUT)

The Agilon Technology (Shenzhen) Co., Ltd. 's product, model: TA23 or the "EUT" as referred to in this report is a *Remote Control* which measures approximately 5.3 cm L x 3.2 cm W x 1.3 cm H, rated input voltage: DC 12 V battery.

*\* The test data gathered are from production sample, serial number: 0610152 provided by the manufacturer, we receive the EUT on 2006-10-26.*

### Objective

This document is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2003.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203,15.205,15.209 and 15.231 rules.

### Related Submittal(s)/Grant(s)

No Related Submittals

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.4 - 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### Test Facility

The Test site used by Bay Area Compliance Laboratory Corp. (ShenZhen) to collect radiated and conducted emission measurement data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China.

Test site at Bay Area Compliance Laboratory Corp. (ShenZhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratory Corp. (ShenZhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2007070.htm>

## **SYSTEM TEST CONFIGURATION**

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### **Justification**

The system was configured for testing in a typical fashion (as normally used by a typical user).

### **EUT Exercise Software**

N/A.

### **Special Accessories**

The special accessories were supplied by manufacturer.

### **Equipment Modifications**

Bay Area Compliance Laboratory Corp. (ShenZhen) has not done any modification on the EUT.

## Configuration of Test Setup



Stand View



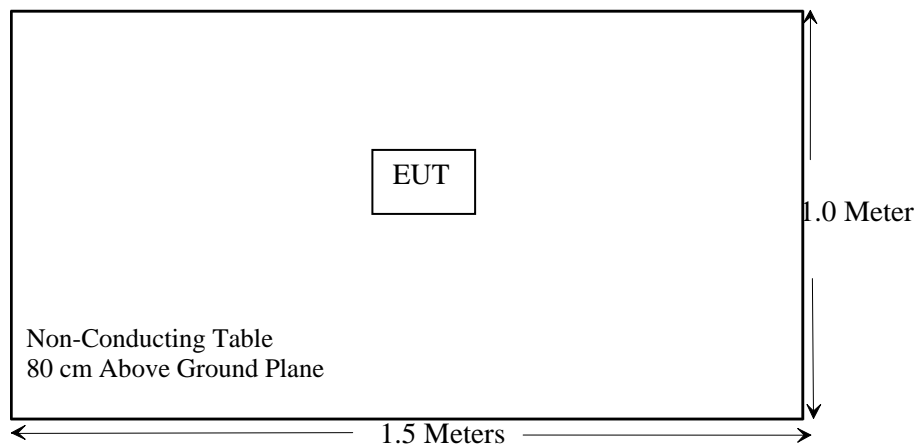
Side View



Lie View

Note: We tested Lie orientation, side orientation and stand orientation, the lie orientation is the worst mode, so we select the lie orientation to test.

## Block Diagram of Test Setup



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## SUMMARY OF TEST RESULTS

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| FCC RULES       | DESCRIPTION OF TEST     | RESULT    |
|-----------------|-------------------------|-----------|
| § 15.203        | Antenna Requirement     | Compliant |
| § 15.205        | Restricted Band         | Compliant |
| § 15.209        | General Requirement     | Compliant |
| § 15.231 (b)    | Radiated Emission       | Compliant |
| § 15.231 (c)    | 20dB Band Width Testing | Compliant |
| § 15.231 (a)(1) | Deactivate Testing      | Compliant |
| § 15.231        | Duty Cycle              | Compliant |

## **§15.203 - ANTENNA REQUIREMENT**

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### **Standard Applicable**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a build on board antenna; fulfill the requirement of this section.

**Result:** Compliance.



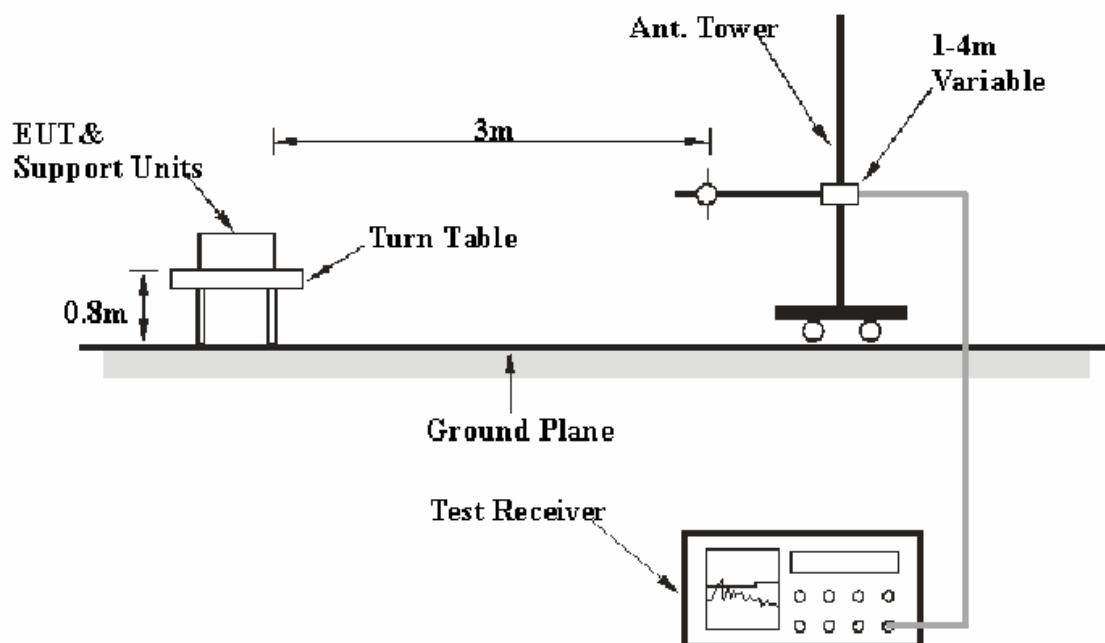
## §15.205, §15.209, §15.231 (b)- RADIATED EMISSION

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratory Corp. (ShenZhen) is  $\pm 4.0$  dB.

### EUT Setup



The radiated emission tests were performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4 - 2003. The specification used was the FCC 15 § 15.209 and 15.231.

### EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 GHz.

During the radiated emission test, the test receiver was set with the following configurations:

| <i><b>Frequency Range</b></i> | <i><b>RBW</b></i> | <i><b>VBW</b></i> |
|-------------------------------|-------------------|-------------------|
| 30 – 1000 MHz                 | 100 kHz           | 300 kHz           |
| 1 GHz – 5 GHz                 | 1 MHz             | 3 MHz             |

## Test Equipment List and Details

| Manufacturer    | Description       | Model   | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|---------------|------------------|----------------------|
| Agilent         | Spectrum Analyzer | 8564E   | 3943A01781    | 2005-12-8        | 2006-12-8            |
| HP              | Amplifier         | 8449B   | 3008A00277    | 2006-8-17        | 2007-8-17            |
| Sunol Sciences  | Horn Antenna      | DRH-118 | A052604       | 2006-7-20        | 2007-7-20            |
| Rohde & Schwarz | EMI Test Receiver | ESCI    | 100035        | 2006-8-17        | 2007-8-17            |
| HP              | Amplifier         | HP8447E | 1937A01046    | 2006-8-17        | 2007-8-17            |
| Sunol Sciences  | Broadband Antenna | JB1     | A040904-2     | 2006-4-28        | 2007-4-28            |

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (ShenZhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Peak and Average detection mode.

## Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field Strength of Fundamental (Microvolts /meter) | Field Strength of spurious emissions ((Microvolts /meter) |
|-----------------------------|---------------------------------------------------|-----------------------------------------------------------|
| 40.66-40.70                 | 2,250.....                                        | 225                                                       |
| 70-130.....                 | 1,250.....                                        | 125                                                       |
| 130-174.....                | 1,250 to 3,370.....                               | 125 to 375                                                |
| 174-260.....                | 3,750                                             | 375                                                       |
| 260-470.....                | 3,750 to 12,500.....                              | 375 to 1,250                                              |
| Above 470                   | 12,500.....                                       | 1,250                                                     |

Linear interpolations for frequency ranges 130 - 174 MHz and 260 - 470 MHz.

The above field strength limits are specified at a distance of 3-meters the tighter limits apply at the band edges.

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Cord. Amp.} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -5.8dB means the emission is 5.8dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Cord. Amp.} - \text{Limit}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 and 15.231, with the worst margin reading of:

**30-1000MHz: -4.12 dB at 945 MHz in the Horizontal polarization.**  
**Above 1GHz: -4.38 dB at 1260 MHz in the Horizontal polarization.**

## Test Data

### Environmental Conditions

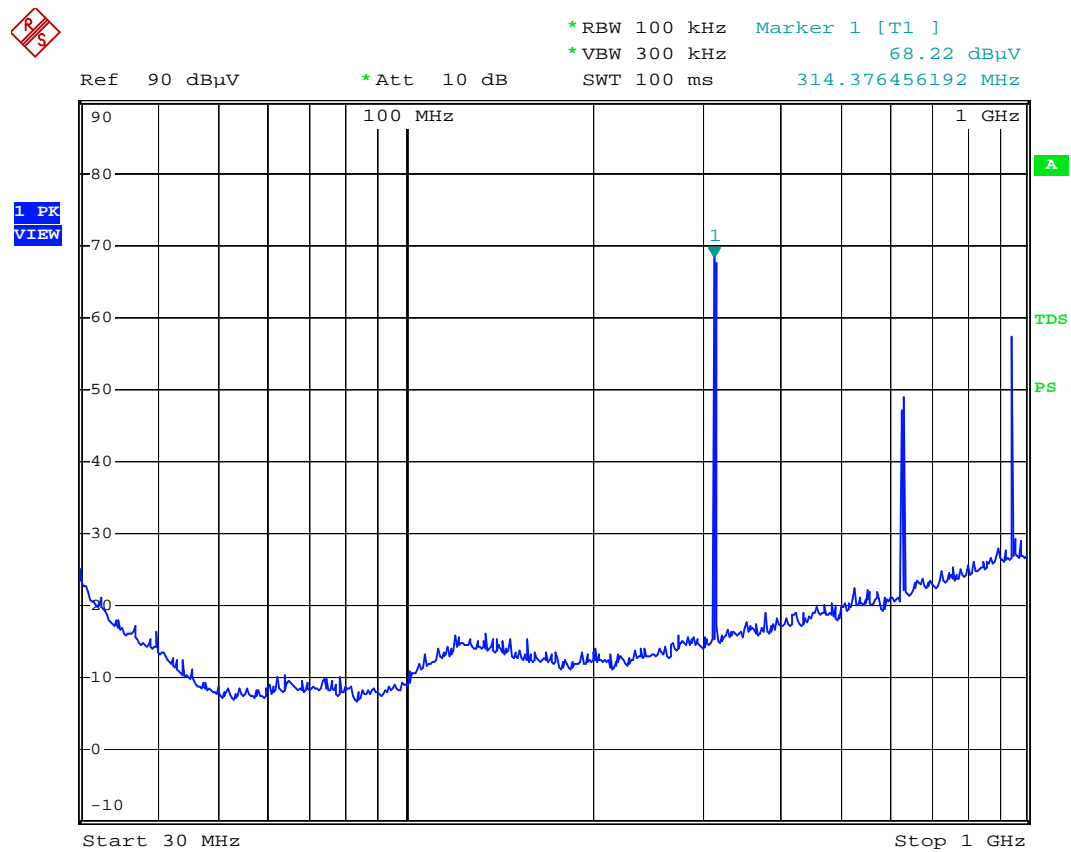
|                    |          |
|--------------------|----------|
| Temperature:       | 25 ° C   |
| Relative Humidity: | 56%      |
| ATM Pressure:      | 1002mbar |

*The testing was performed by William Chen on 2006-11-02.*

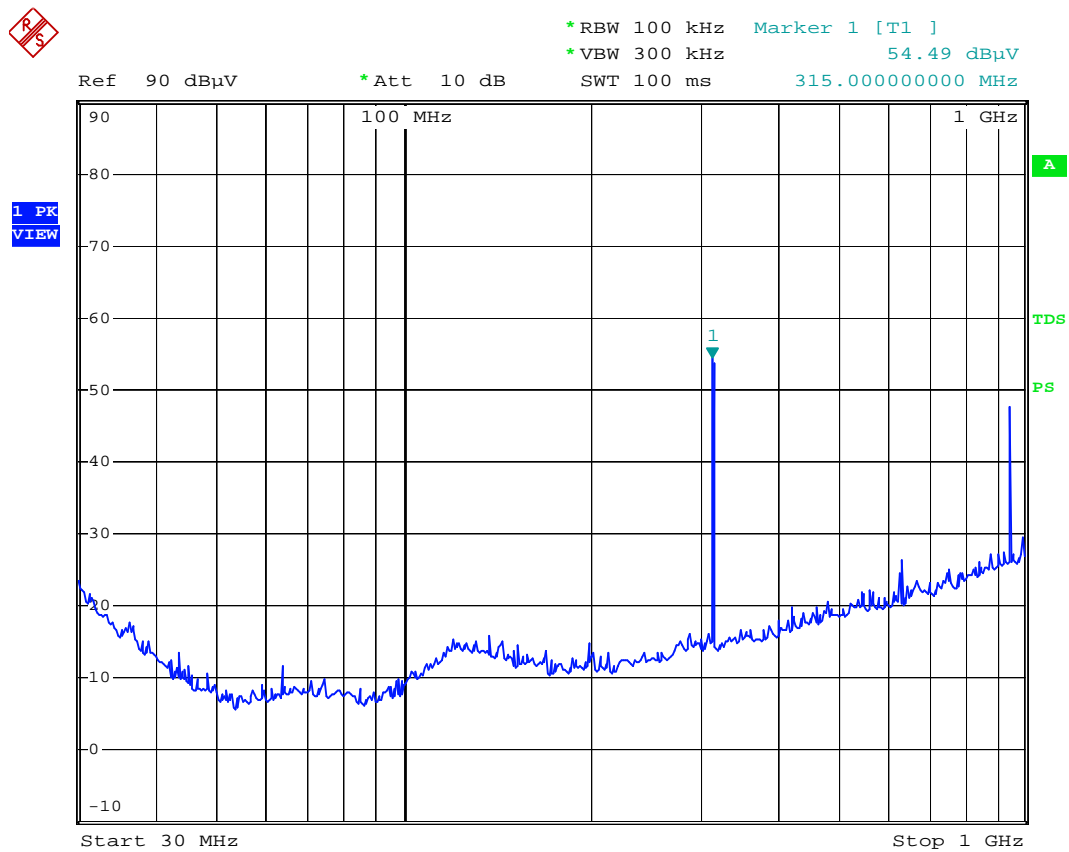
*Test Mode: Transmitting*

| Frequency<br>MHz | Meter<br>Reading<br>dBuV/m | Detector<br>PK/AV | Direction<br>Degree | Height<br>Meter | Polar<br>H / V | Antenna<br>Factor<br>dB/m | Cable<br>loss<br>dB | Duty<br>Cycle<br>dB | Amp<br>Gain<br>dB | Cord.<br>Amp.<br>dBuV/m | FCC Part 15.231 |              |             |
|------------------|----------------------------|-------------------|---------------------|-----------------|----------------|---------------------------|---------------------|---------------------|-------------------|-------------------------|-----------------|--------------|-------------|
|                  |                            |                   |                     |                 |                |                           |                     |                     |                   |                         | Limit<br>dBuV/m | Margin<br>dB | Remarks     |
| 30 -1000MHz      |                            |                   |                     |                 |                |                           |                     |                     |                   |                         |                 |              |             |
| 945              | 56.87                      | AV                | 180                 | 1.0             | H              | 21.7                      | 3.84                | -4.43               | 26.5              | 51.48                   | 55.6            | -4.12        | Harmonic    |
| 945              | 48.02                      | AV                | 180                 | 1.0             | V              | 21.7                      | 3.84                | -4.43               | 26.5              | 42.63                   | 55.6            | -12.97       | Harmonic    |
| 630              | 48.98                      | AV                | 45                  | 1.0             | H              | 17.8                      | 2.95                | -4.43               | 27.1              | 38.21                   | 55.6            | -17.40       | Harmonic    |
| 945              | 56.87                      | PK                | 180                 | 1.0             | H              | 21.7                      | 3.84                | 0                   | 26.5              | 55.91                   | 75.6            | -19.69       | Harmonic    |
| 315              | 68.22                      | AV                | 180                 | 1.2             | H              | 12.8                      | 2.61                | -4.43               | 25.8              | 53.40                   | 75.6            | -22.20       | Fundamental |
| 945              | 48.02                      | PK                | 180                 | 1.0             | V              | 21.7                      | 3.84                | 0                   | 26.5              | 47.06                   | 75.6            | -28.54       | Harmonic    |
| 630              | 48.98                      | PK                | 45                  | 1.0             | H              | 17.8                      | 2.95                | 0                   | 27.1              | 42.63                   | 75.6            | -32.97       | Harmonic    |
| 315              | 54.49                      | AV                | 180                 | 1.0             | V              | 12.8                      | 2.61                | -4.43               | 25.8              | 39.67                   | 75.6            | -35.93       | Fundamental |
| 315              | 68.22                      | PK                | 180                 | 1.2             | H              | 12.8                      | 2.61                | 0                   | 25.8              | 57.83                   | 95.6            | -37.77       | Fundamental |
| 630              | 27.56                      | AV                | 45                  | 1.0             | V              | 17.8                      | 2.95                | -4.43               | 27.1              | 16.78                   | 55.6            | -38.82       | Harmonic    |
| 315              | 54.49                      | PK                | 180                 | 1.0             | V              | 12.8                      | 2.61                | 0                   | 25.8              | 44.1                    | 95.6            | -51.50       | Fundamental |
| 630              | 27.56                      | PK                | 45                  | 1.0             | V              | 17.8                      | 2.95                | 0                   | 27.1              | 21.21                   | 75.6            | -54.39       | Harmonic    |
| Above 1GHz       |                            |                   |                     |                 |                |                           |                     |                     |                   |                         |                 |              |             |
| 1260             | 62.75                      | AV                | 90                  | 1.0             | H              | 24.8                      | 2.5                 | -4.43               | 36                | 49.62                   | 54              | -4.38        | Harmonic    |
| 1575             | 58.71                      | AV                | 180                 | 1.2             | H              | 27.1                      | 2.77                | -4.43               | 35                | 49.15                   | 54              | -4.85        | Harmonic    |
| 1890             | 59.66                      | AV                | 45                  | 1.2             | H              | 27.4                      | 3.09                | -4.43               | 35                | 50.72                   | 55.6            | -4.88        | Harmonic    |
| 1260             | 61.84                      | AV                | 90                  | 1.0             | V              | 24.8                      | 2.5                 | -4.43               | 36                | 48.71                   | 54              | -5.29        | Harmonic    |
| 1890             | 58.78                      | AV                | 45                  | 1.2             | V              | 27.1                      | 2.82                | -4.43               | 35                | 49.84                   | 55.6            | -5.76        | Harmonic    |
| 1575             | 56.74                      | AV                | 180                 | 1.2             | V              | 25.9                      | 2.77                | -4.43               | 35                | 47.18                   | 54              | -6.82        | Harmonic    |
| 1260             | 62.75                      | PK                | 90                  | 1.0             | H              | 24.8                      | 2.5                 | 0                   | 36                | 54.05                   | 74              | -19.95       | Harmonic    |
| 1575             | 58.71                      | PK                | 180                 | 1.2             | H              | 27.1                      | 2.77                | 0                   | 35                | 53.58                   | 74              | -20.42       | Harmonic    |
| 1890             | 59.66                      | PK                | 45                  | 1.2             | H              | 27.4                      | 3.09                | 0                   | 35                | 55.15                   | 75.6            | -20.45       | Harmonic    |
| 1260             | 61.84                      | PK                | 90                  | 1.0             | V              | 24.8                      | 2.5                 | 0                   | 36                | 53.14                   | 74              | -20.86       | Harmonic    |
| 1890             | 58.78                      | PK                | 45                  | 1.2             | V              | 27.1                      | 2.82                | 0                   | 35                | 54.27                   | 75.6            | -21.33       | Harmonic    |
| 1575             | 56.74                      | PK                | 180                 | 1.2             | V              | 25.9                      | 2.77                | 0                   | 35                | 51.61                   | 74              | -22.39       | Harmonic    |

**Note:** The average result is based on the peak measurement with the duty cycle calculation.



Agilon Remote Contorl M/N:TA23 (below 1GHz spurious emiss  
ion)--horizontal  
Date: 2.NOV.2006 00:06:48



Agilon Remote Contorl M/N:TA23 (below 1GHz spurious emiss  
ion)--Vertical  
Date: 2.NOV.2006 00:04:10

## §15.231(c) 20dB BANDWIDTH TESTING

### Requirement

Per 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

### Test Equipment List and Details

| Manufacturer    | Description       | Model   | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|---------------|------------------|----------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCI    | 100035        | 2006-8-17        | 2007-8-17            |
| HP              | Amplifier         | HP8447E | 1937A01046    | 2006-8-17        | 2007-8-17            |
| Sunol Sciences  | Broadband Antenna | JB1     | A040904-2     | 2006-4-28        | 2007-4-28            |

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (ShenZhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

### Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

### Test Data

#### Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 25 ° C   |
| Relative Humidity: | 50%      |
| ATM Pressure:      | 1009mbar |

*The testing was performed by William Chen on 2006-10-27.*

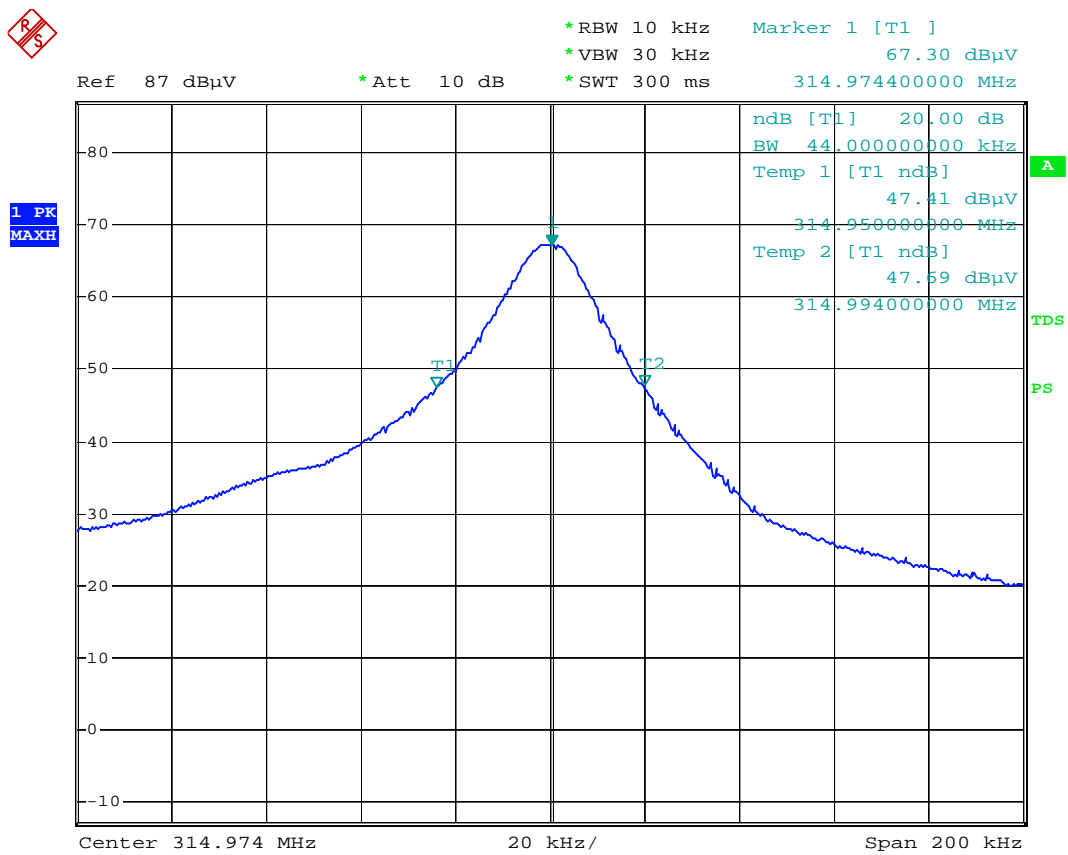
*Test Mode: Transmitting*

| Frequency (MHz) | Bandwidth Emission (kHz) | Limit (kHz) | Result |
|-----------------|--------------------------|-------------|--------|
| 315.0           | 44.0                     | 787.5       | Pass   |

Limit = Frequency × 0.25% = 315.0 × 0.25% = 787.5 kHz

**Test Result:** Pass

Refer to the attached plot.



Agilon Remote Control M/N:TA23 Bandwidth Test

Date: 27.OCT.2006 21:26:17

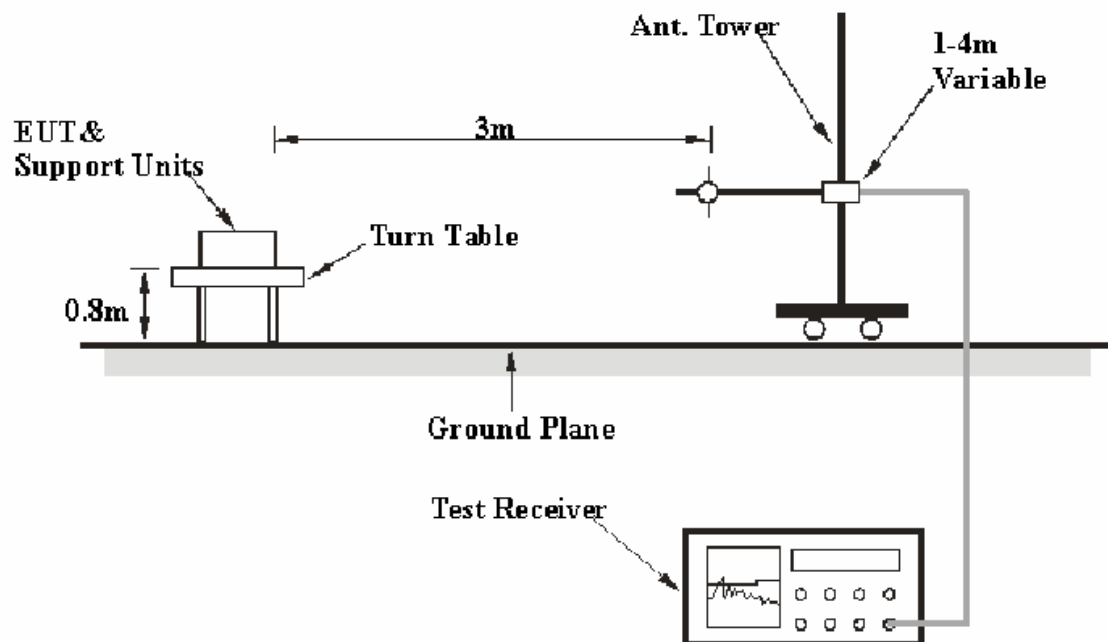


## §15.231(a)-DEACTIVATE TESTING

### Requirement

Per 15.231(a) (1), a manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

### EUT Setup



The deactivation test was performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.4 - 2003. The specification used was the FCC 15.231(a) limits.

### Test Equipment List and Details

| Manufacturer    | Description       | Model   | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|---------------|------------------|----------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCI    | 100035        | 2006-8-17        | 2007-8-17            |
| HP              | Amplifier         | HP8447E | 1937A01046    | 2006-8-17        | 2007-8-17            |
| Sunol Sciences  | Broadband Antenna | JB1     | A040904-2     | 2006-4-28        | 2007-4-28            |

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (ShenZhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

### Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

## Test Data

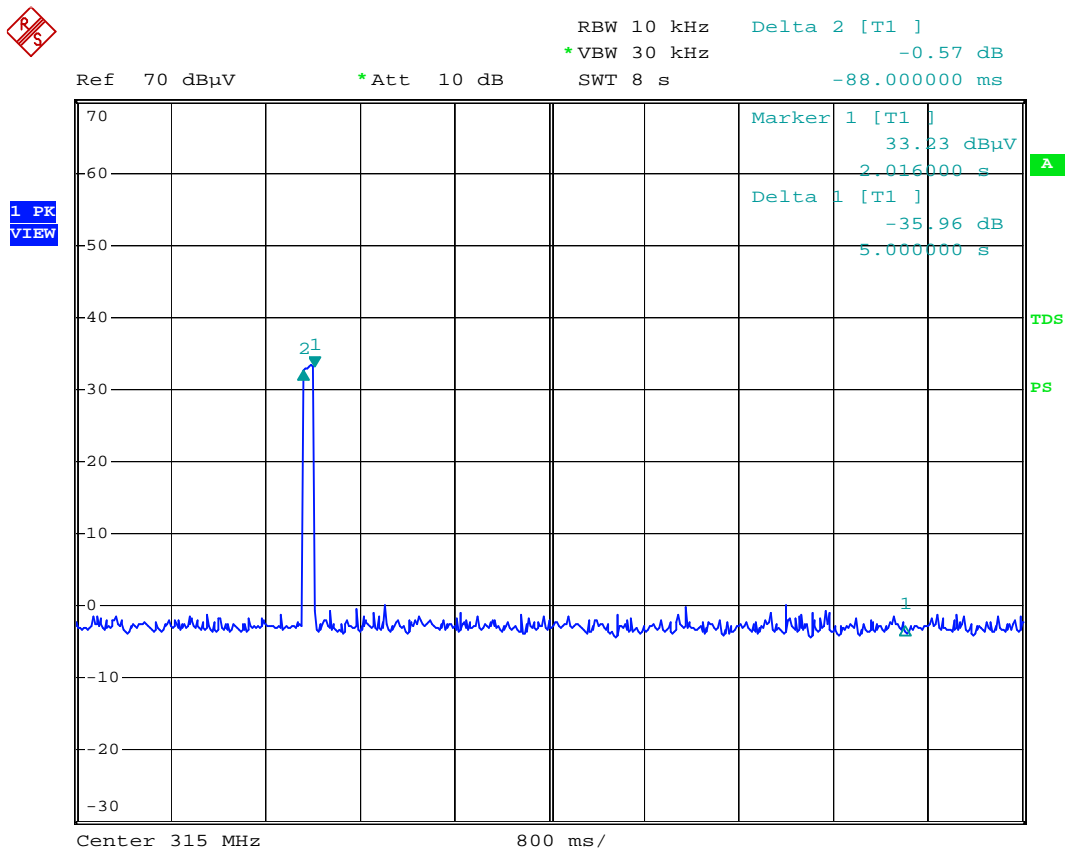
### Environmental Conditions

|                    |          |
|--------------------|----------|
| Temperature:       | 25 °C    |
| Relative Humidity: | 50%      |
| ATM Pressure:      | 1032mbar |

The testing was performed by William Chen on 2006-10-28.

Test Mode: Transmitting

Refer to the attached plot.



Agilon Remote Control M/N: TA23 -- Deactivation Time Test

Date: 28.OCT.2006 11:08:45

## §15.231- DUTY CYCLE

### Limit

Nil (No dedicated limit specified in the Rules).

### Test Equipment List and Details

| Manufacturer  | Description       | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------|-------------------|-------|---------------|------------------|----------------------|
| Rohde&Schwarz | Spectrum Analyzer | ESCI  | 100224        | 2006-11-07       | 2007-11-07           |

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (ShenZhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

### Test Procedure

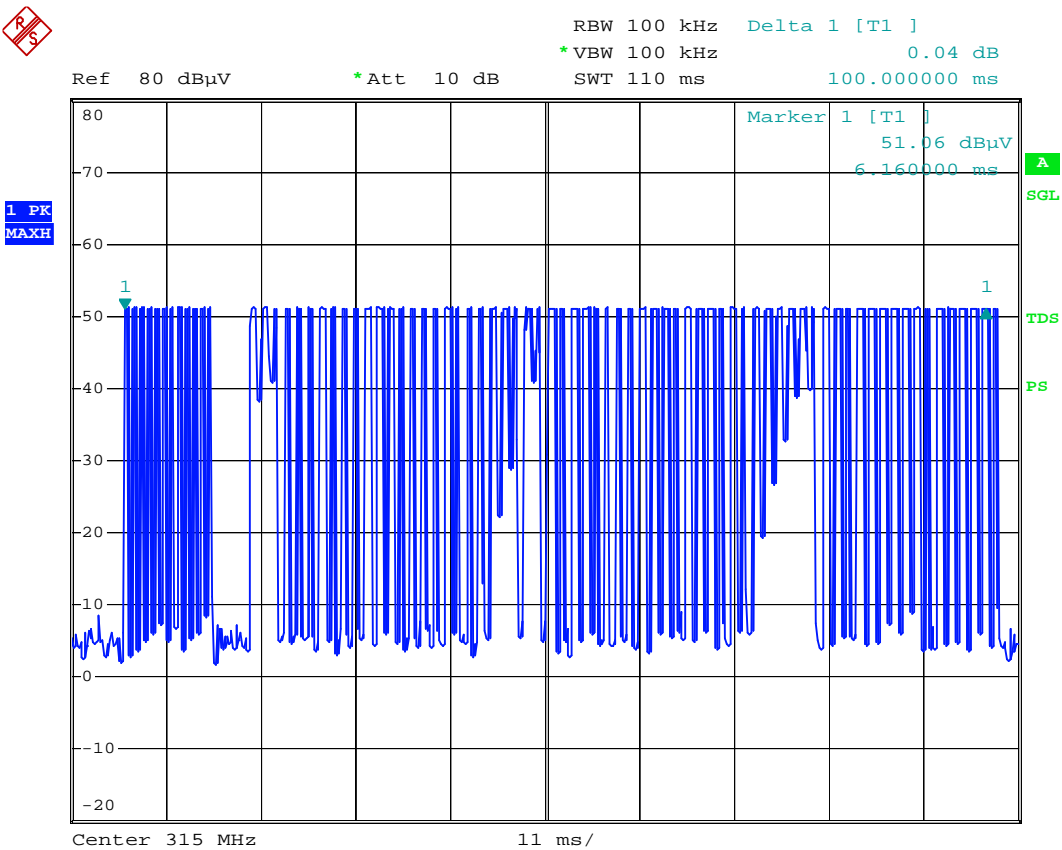
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer=operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100 kHz, Span=0Hz, Adjust Sweep=110ms.
5. Repeat above procedures until all frequency measured was complete.

### Test Data

$$T_p = 100 \text{ ms}$$

$$T_{on} = 0.414 * 12 + 0.861 * 64 = 60.072 \text{ (ms)}$$

$$\text{Factor} = 20 * \log (T_{on} / T_p) = 20 * \log (60.072/99.6) = -4.43\text{dB}$$

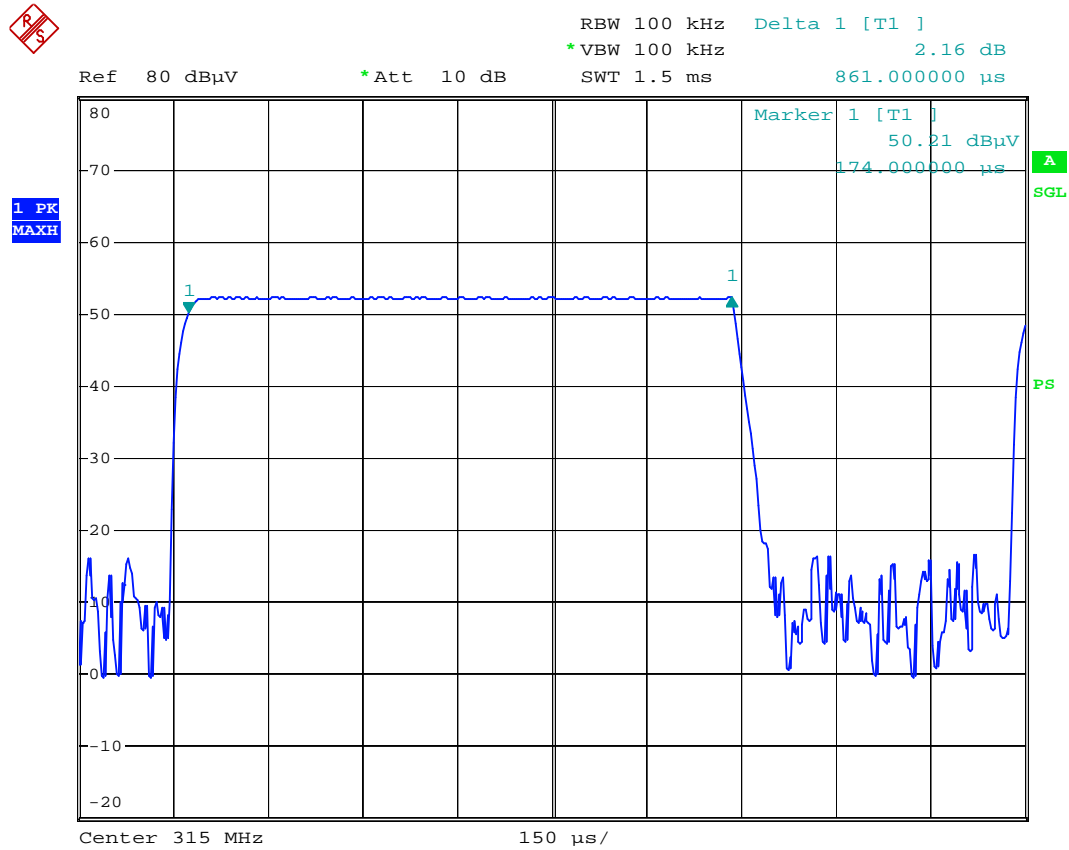


Duty Cycle -- Tp

Date: 20.NOV.2006 15:12:28



Date: 16.NOV.2006 18:23:47



Duty cycle --Ton2

Date: 16.NOV.2006 18:21:50