



## Shenzhen EBO Technology Co., Ltd.

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FCC ID: SOV9031  
Report No.: FCC11-ITE052601  
Page: 1 of 14

# FCC REPORT

**Application No.:** FCC11-RTE041601ITE  
**Applicant:** ARCHOS S.A.  
**Address of Applicant:** 12 Rue Ampere 91430 Igny, France  
**FCC ID:** SOV9031  
**Equipment Under Test (EUT):**  
    EUT Name: 9031  
    Item No.: A35DOMO  
    Serial No.: Not supplied by client  
**Standards:** FCC PART 15 Subpart B: 2008  
**Date of Receipt:** 16 May. 2011  
**Date of Test:** 18 May. 2011 to 20 May. 2011  
**Date of Issue:** 26 May. 2011

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

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

Authorized Signature:

Kavin Yu  
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO Technology Approvals or testing done by EBO Technology Approvals in connection with, distribution or use of the product described in this report must be approved by EBO Technology Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 1 Test Summary

| Test                | Test Requirement | Standard Paragraph | Result |
|---------------------|------------------|--------------------|--------|
| Conducted Emissions | FCC PART 15:2008 | Section 15.107     | PASS   |
| Radiated Emission   | FCC PART 15:2008 | Section 15.109     | PASS   |

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### 3 General Information

#### 3.1 Client Information

Applicant: ARCHOS S.A.  
Address of Applicant: 12 Rue Ampere 91430 Igny, France  
Factory: Excelsior Electronics  
Address of Factory: Sam Tuen Management Zone, Houjie, Dongguan Guangdong PRC

#### 3.2 General Description of E.U.T.

Equipment Under Test: Digital Device  
Trade Name: Archos  
Type Designation: A35DOMO  
Model Number: 9031  
Power Supply: Lithium polymer battery 3.7V(The new battery be used during testing)  
Date of Test: May 18, 2011 to May 20, 2011

#### 3.3 Test Location

All tests were sub-contracted to:

ATC Lab Co., Ltd (Guangdong, China).

205#, Yingfeng Building, Ronggu Rd, Foshan, Guangdong, China (528305)

Phone: 0757-23612690

Fax: 0757-23612537

#### 3.4 Test Supporting System Details

| Equipment Name    | Model No. | Manufacturer | FCC Status |
|-------------------|-----------|--------------|------------|
| Notebook Computer | nc4000    | HP           | DOC        |
| Monitor           | TFT1780PS | AOV          | DOC        |
| Keyboard          | JME7053   | Lenovo       | DOC        |
| Mouse             | N/A       | Lenovo       | DOC        |

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### 3.5 Test Facility

FCC-Registration No.: 415467

ATC Lab Co., Ltd (Guangdong, China) EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 415467. Listing date October 10, 2008.

IC-Registration No.: 7949A

The 3m Alternate Test Site of ATC Lab Co., Ltd (Guangdong, China) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7949A on March. 25th, 2011.

### 3.6 Measurement Uncertainty

of +/- 4.5 dB for Radiated Emissions

of +/- 2.3 dB for Conducted Emissions

### 3.7 Other Information Requested by the Customer

None

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## 4 Equipment Used during Test

| Conducted Emission |                                         |              |           |            |               |
|--------------------|-----------------------------------------|--------------|-----------|------------|---------------|
| No.                | Test Equipment                          | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC002         | Shielding Room                          | ETS          | N/A       | N/A        | 2012-05-18    |
| GAL-EMC003         | Receiver                                | SCHAFFNER    | SMR4503   | 11725      | 2011-07-08    |
| GAL-EMC005         | Line impedance stabilization network    | EMCO         | 4825/2    | 1161       | 2011-07-08    |
| GAL-EMC098         | Line impedance stabilization network    | EMCO         | 3810/2    | 2516       | 2011-07-08    |
| RF in Chamber      |                                         |              |           |            |               |
| No.                | Test Equipment                          | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC001         | Semi-anechoic Chamber                   | ETS          | N/A       | N/A        | 2012-05-25    |
| GAL-EMC003         | Receiver                                | SCHAFFNER    | SMR4503   | 11725      | 2011-07-08    |
| GAL-EMC007         | Double-ridged Wave guide horn           | ETS          | 3115      | 6587       | 2011-08-02    |
| GAL-EMC008         | Microwave system amplifier (0.5G-26.5G) | Agilent      | 83017A    | MY39500438 | 2011-07-08    |
| GAL-EMC017         | Biconilog Antenna                       | ETS          | 3142C     | 00042672   | 2011-09-26    |
| GAL-EMC055         | Band-pass Filter                        | Micro-Tronic | BRM50702  | S/N-030    | 2011-11-09    |
| GAL-EMC056         | Spectrum Analyzer 9KHz-30GHz            | R&S          | FSP30     | 100755     | 2011-11-02    |

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## 5 Test Results

### 5.1 Conducted Emissions

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 B Section 15.107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Method:      | ANSI C63.4:2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Frequency Range:  | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Class/Severity:   | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Detector:         | Peak for pre-scan (9 kHz resolution bandwidth)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Mode:        | USB mode (Connect the EUT with Notebook computer ,and exchange data between them)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Voltage:     | 120Vac, 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Date:        | 20 March. 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Temperature:      | 25°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Humidity:         | 56%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Limit:            | (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges. |

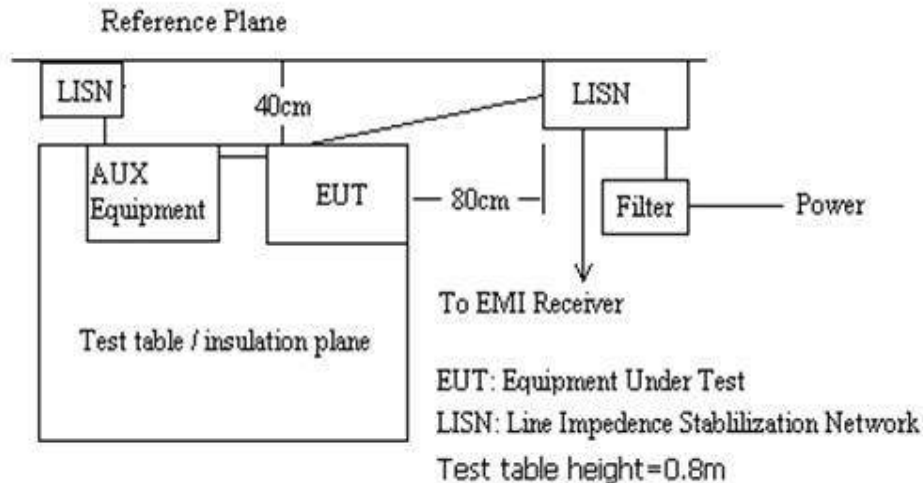
| Frequency of Emission (MHz) | Conducted Limit (dBuV) |            |
|-----------------------------|------------------------|------------|
|                             | Quasi-peak             | Average    |
| 0.15-0.5                    | 66 to 56 *             | 56 to 46 * |
| 0.5-5                       | 56                     | 46         |
| 5-30                        | 60                     | 50         |

\* Decreases with the logarithm of the frequency.

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### 5.1.1 Test Setup



### 5.1.2 Test Procedure

The Device was connected to the artificial main network via AC adapter and connect with Notebook computer( refer to section 3.4 for details), And test the EUT with activated in USB mode.

### 5.1.3 Measurement Data

Measure the maximised peak emissions from the EUT for both the Live and Neutral Lines. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

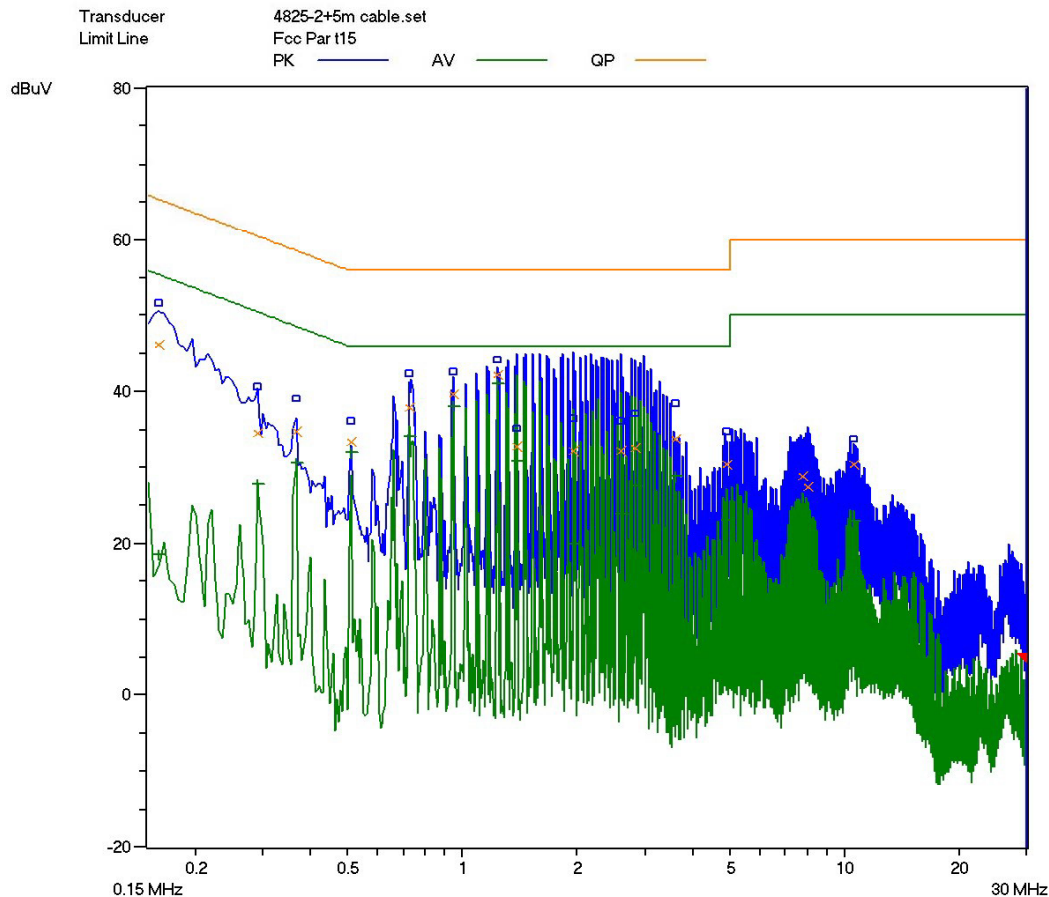
| Frequency (MHz) | Line | Measured QP (dBuV) | QP Limit (dBuV) | Measured AV (dBuV) | AV Limit (dBuV) | Over Limit QP | Over Limit AV |
|-----------------|------|--------------------|-----------------|--------------------|-----------------|---------------|---------------|
| 0.1600          | L    | 46.20              | 65.39           | 18.60              | 55.39           | -19.19        | -36.79        |
| 0.3650          | L    | 34.80              | 58.59           | 30.60              | 48.59           | -23.79        | -17.99        |
| 0.7250          | L    | 37.80              | 56.00           | 34.10              | 46.00           | -18.20        | -11.90        |
| 0.9450          | L    | 39.70              | 56.00           | 38.10              | 46.00           | -16.30        | -7.90         |
| 1.2350          | L    | 42.20              | 56.00           | 40.90              | 46.00           | -13.80        | -5.10         |
| 10.5300         | L    | 30.40              | 60.00           | 23.00              | 50.00           | -29.60        | -27.00        |
| 0.1550          | N    | 46.70              | 65.65           | 18.80              | 55.65           | -18.95        | -36.85        |
| 0.2250          | N    | 37.40              | 62.58           | 12.80              | 52.58           | -25.18        | -39.78        |
| 0.7300          | N    | 38.70              | 56.00           | 34.10              | 46.00           | -17.30        | -11.90        |
| 0.9450          | N    | 39.00              | 56.00           | 36.70              | 46.00           | -17.00        | -9.30         |
| 1.1650          | N    | 41.70              | 56.00           | 40.00              | 46.00           | -14.30        | -6.00         |
| 3.6400          | N    | 34.30              | 56.00           | 29.80              | 46.00           | -21.70        | -16.20        |



### Live Line Scan Graph

Title CE L  
EUT / Ser.No. A35DOMO  
Condition 120Vac,60Hz

|                      |          |
|----------------------|----------|
| Frequency Range(s)   | Range 1  |
| Start Frequency      | 150 kHz  |
| Stop Frequency       | 30 MHz   |
| Step Frequency       | 5 kHz    |
| Attenuator           | Auto     |
| Detector (Pre)       | AV CISPR |
| IF Bandwidth (Pre)   | 9 kHz    |
| Measure Time (Pre)   | 10 ms    |
| Detector (Final)     | QP       |
| IF Bandwidth (Final) | 9 kHz    |
| Measure Time (Final) | 1 s      |
| Sub Ranges (Final)   | 20       |



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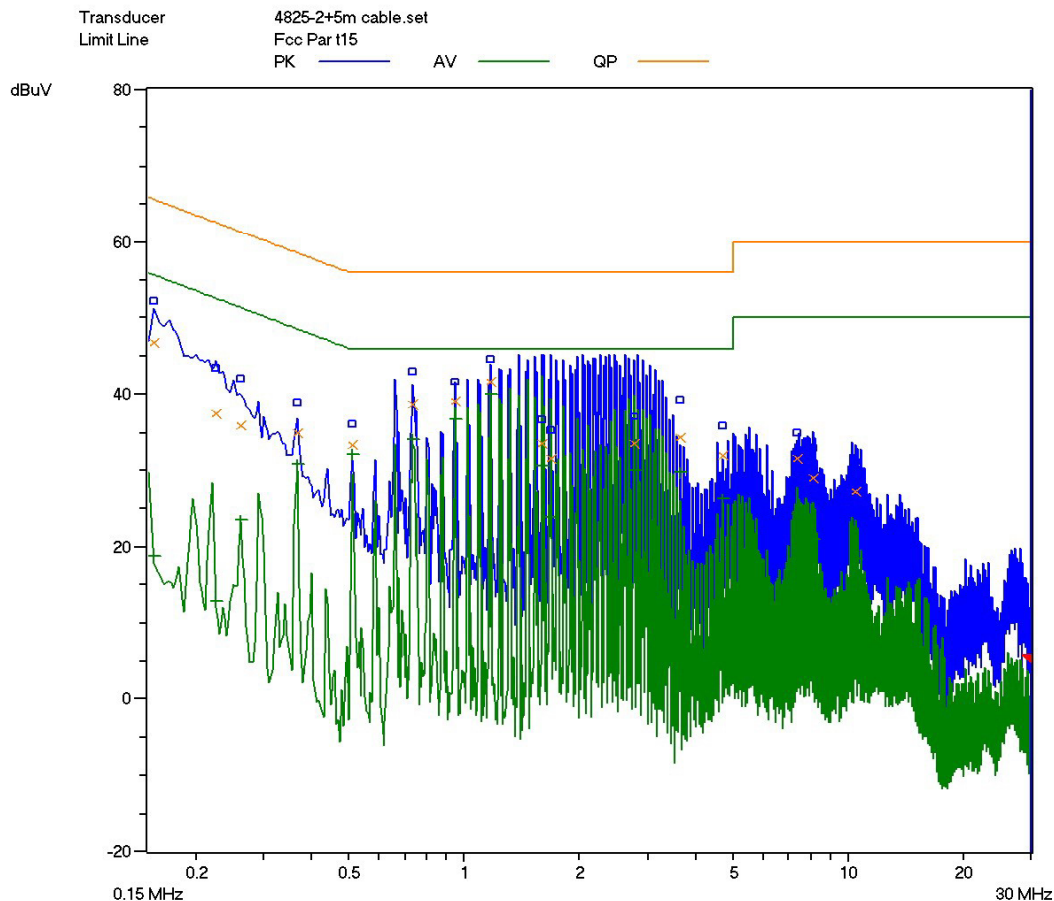
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### Nuetral Line Scan Graph

Title CE N  
EUT / Ser.No. A35DOMO  
Condition 120Vac,60Hz

|                      |          |
|----------------------|----------|
| Frequency Range(s)   | Range 1  |
| Start Frequency      | 150 kHz  |
| Stop Frequency       | 30 MHz   |
| Step Frequency       | 5 kHz    |
| Attenuator           | Auto     |
| Detector (Pre)       | AV CISPR |
| IF Bandwidth (Pre)   | 9 kHz    |
| Measure Time (Pre)   | 10 ms    |
| Detector (Final)     | QP       |
| IF Bandwidth (Final) | 9 kHz    |
| Measure Time (Final) | 1 s      |
| Sub Ranges (Final)   | 20       |



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## 5.2 Radiated Emissions

**Test Requirement:** FCC Part15 B Section 15.109  
**Test Method:** ANSI C63.4:2003  
**Frequency Range:** 30MHz to 5GHz  
**Class/Severity:** Class B  
**Detector:** QP Detector(RBW=120kHz,VBW=300kHz)for 30 to 1000 MHz RE testing  
Peak Detector(RBW=1MHz,VBW=3MHz) for 1 to 25 GHz RE Peak value test  
Peak Detector(RBW=1MHz, VBW=10Hz) for 1 to 25 GHz RE AV value test  
**Test Mode:** USB mode (Connect the EUT with PC ,and exchange data between them)  
**Test Voltage:** 120Vac, 60Hz  
**Test Date:** 20 May. 2011  
**Temperature:** 24°C  
**Humidity:** 53%  
**Limit:** Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency of Emission<br>(MHz) | Field Strength     |                  |
|--------------------------------|--------------------|------------------|
|                                | (microvolts/meter) | dB (μV/m)        |
| 30 - 88                        | 100                | 40(QP)           |
| 88 - 216                       | 150                | 43.5(QP)         |
| 216 - 960                      | 200                | 46(QP)           |
| 960-1000                       | 500                | 54(QP)           |
| Above 1000                     | 500                | 54(AV)<br>74(PK) |

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### 5.2.1 Test Setup

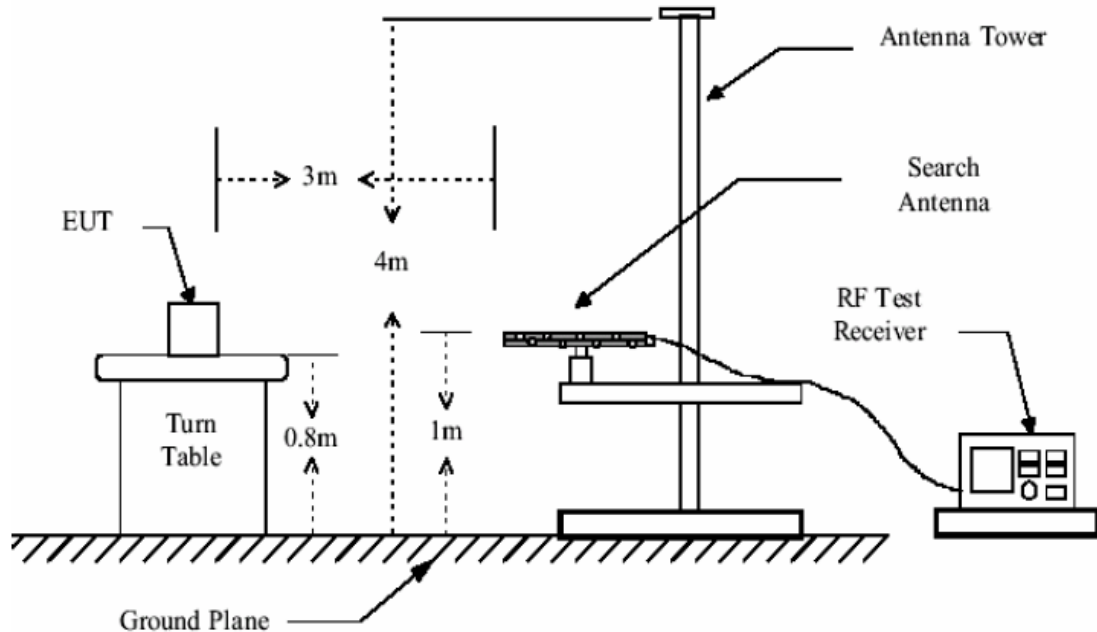


Figure1: 30MHz to 1GHz radiated emissions test setup

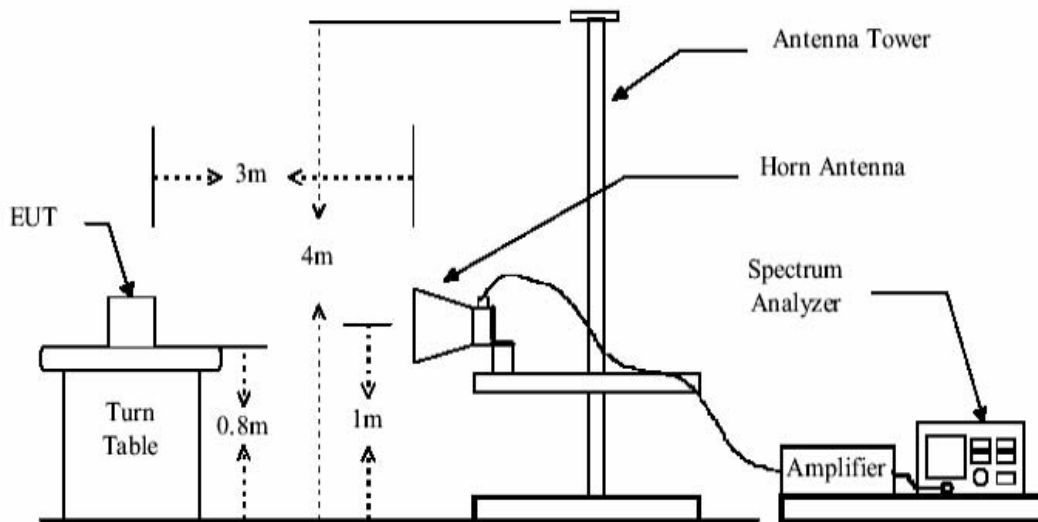


Figure 2: Above 1GHz radiated emissions test setup



### 5.2.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |

### 5.2.3 Measurement Data

An initial pre-scan was performed in peak detection mode. Peak measurement was performed at the frequencies with maximized peak emission were detected.

#### Radiated Emission below 1GHz

| Frequency (MHz) | Antenna Polarity | Detector Mode | Reading (dBuV) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | QP Limit (dBuV/m) | Over Limit(dB) |
|-----------------|------------------|---------------|----------------|----------------------|-------------------------|-------------------|----------------|
| 36.000          | H                | QP            | -2.80          | 18.70                | 15.90                   | 40.00             | -24.10         |
| 240.000         | H                | QP            | 16.50          | 8.40                 | 24.90                   | 43.50             | -18.60         |
| 584.720         | H                | QP            | 10.20          | 20.60                | 30.80                   | 46.00             | -15.20         |
| 676.000         | H                | QP            | 15.51          | 17.79                | 33.30                   | 46.00             | -12.70         |
| 799.920         | H                | QP            | 13.81          | 22.59                | 36.40                   | 46.00             | -9.60          |
| 884.000         | H                | QP            | 9.78           | 23.12                | 32.90                   | 46.00             | -13.10         |
| 35.760          | V                | QP            | 10.76          | 18.70                | 29.46                   | 40.00             | -10.54         |
| 240.080         | V                | QP            | 23.38          | 8.40                 | 31.78                   | 43.50             | -11.72         |
| 520.000         | V                | QP            | 13.96          | 20.30                | 34.26                   | 46.00             | -11.74         |
| 584.720         | V                | QP            | 16.25          | 20.60                | 36.85                   | 46.00             | -9.15          |
| 844.560         | V                | QP            | 11.15          | 23.02                | 34.17                   | 46.00             | -11.83         |
| 999.920         | V                | QP            | 11.54          | 24.94                | 36.48                   | 46.00             | -9.52          |

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**Radiated Emission Above 1GHz**

| Frequency (MHz) | Antenna Polarity | Detector Mode | Reading (dBuV) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) |
|-----------------|------------------|---------------|----------------|----------------------|-------------------------|-------------------|----------------|
| 1056.000        | H                | PK            | 52.45          | -3.00                | 49.45                   | 74.00             | -24.55         |
| 1192.000        | H                | PK            | 50.39          | -2.80                | 47.59                   | 74.00             | -26.41         |
| 1328.000        | H                | PK            | 49.94          | -2.60                | 47.34                   | 74.00             | -26.66         |
| 1584.000        | H                | PK            | 51.73          | -2.50                | 49.23                   | 74.00             | -24.77         |
| 1680.000        | H                | PK            | 51.04          | -2.50                | 48.54                   | 74.00             | -25.46         |
| 3304.000        | H                | PK            | 43.34          | 3.68                 | 47.02                   | 74.00             | -26.98         |
| 1064.000        | V                | PK            | 59.59          | -3.00                | 56.59                   | 74.00             | -17.41         |
| 1192.000        | V                | PK            | 56.82          | -2.80                | 54.02                   | 74.00             | -19.98         |
| 1350.000        | V                | PK            | 55.49          | -2.80                | 52.69                   | 74.00             | -21.31         |
| 1592.000        | V                | PK            | 56.46          | -2.50                | 53.96                   | 74.00             | -20.04         |
| 1696.000        | V                | PK            | 50.04          | -2.50                | 47.54                   | 74.00             | -26.46         |
| 1992.000        | V                | PK            | 46.97          | -1.60                | 45.37                   | 74.00             | -28.63         |

| Frequency (MHz) | Antenna Polarity | Detector Mode | Reading (dBuV) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) |
|-----------------|------------------|---------------|----------------|----------------------|-------------------------|-------------------|----------------|
| 1056.000        | H                | AV            | 38.54          | -3.00                | 35.54                   | 54.00             | -18.46         |
| 1192.000        | H                | AV            | 38.06          | -2.80                | 35.26                   | 54.00             | -18.74         |
| 1328.000        | H                | AV            | 37.23          | -2.60                | 34.63                   | 54.00             | -19.37         |
| 1584.000        | H                | AV            | 38.89          | -2.50                | 36.39                   | 54.00             | -17.61         |
| 1680.000        | H                | AV            | 35.65          | -2.50                | 33.15                   | 54.00             | -20.85         |
| 3304.000        | H                | AV            | 30.35          | 3.68                 | 33.05                   | 54.00             | -20.95         |
| 1064.000        | V                | AV            | 45.25          | -3.00                | 42.25                   | 54.00             | -11.75         |
| 1192.000        | V                | AV            | 42.25          | -2.80                | 39.45                   | 54.00             | -14.55         |
| 1350.000        | V                | AV            | 38.99          | -2.80                | 36.19                   | 54.00             | -17.81         |
| 1592.000        | V                | AV            | 39.29          | -2.50                | 36.79                   | 54.00             | -17.21         |
| 1696.000        | V                | AV            | 35.64          | -2.50                | 33.14                   | 54.00             | -20.86         |
| 1992.000        | V                | AV            | 34.47          | -1.60                | 32.87                   | 54.00             | -21.13         |

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