



## **TEST REPORT**

**Date:** 2012-09-28

**Report No.:** 60.870.12.027.01F

**Applicant:** Acoustics Arc international Ltd.  
Unit 311B, 3/F, IC Development Centre, No.6, Science Park  
West Avenue, Hong Kong Science Park, Shatin, N.T., Hong  
Kong

**Description of Samples:** Model name: 900MHz Wireless Speakers (Transmitter)  
Brand name: SABRENT  
Model no.: BD-9787-NT  
FCCID: VHC-AAI-AS1210-00

**Date Samples Received:** 2012-09-24

**Date Tested:** 2012-09-25 to 2012-09-27

**Investigation Requested:** FCC Part 15 Subpart C, Section 15.249

**Conclusions:** The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remarks:** ----

Checked by:

Approved by:-

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Ray Cheung  
Project Engineer  
Wireless & Telecom department

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Jeff Pong  
Operation Manager  
Wireless & Telecom department



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Photos of Test Setup

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External EUT Photos

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## **1.0 General Details**

### **1.1 Test Laboratory**

SEM. Test Compliance Service Co. Ltd  
3/F, Jinbao Commerce Building, Xin'an Fanshen Road,  
Bao'an District, Shenzhen  
Registration Number: 994117

Tested by:

A handwritten signature in blue ink, appearing to read 'John Zhi', written over a horizontal line.

John Zhi

### **1.2 Applicant Details**

#### **Applicant**

**Acoustic Arc international Ltd.**  
Unit 311B, 3/F, IC Development Centre, No. 6  
Science Park West Avenue, Hong Kong Science  
Park, Shatin, N.T., Hong Kong

#### **Manufacturer**

**Acoustic Arc international Ltd.**  
Unit 311B, 3/F, IC Development Centre, No. 6  
Science Park West Avenue, Hong Kong Science  
Park, Shatin, N.T., Hong Kong



### 1.3 Equipment Under Test [EUT]

#### Description of EUT

|                                      |  |
|--------------------------------------|--|
| Model Name:                          | 900MHz Wireless Speakers (Transmitter)   |
| Brand Name:                          | SABRENT  |
| Model Number:                        | BD-9787-NT   |
| FCCID:                               | VHC-AAI-AS1210-00  |
| Rating:                              | DC 6.0V 2000mA powered by AC/DC adaptor<br>OR<br>6 VDC (4 x "AA" size batteries) |
| Operated Frequency:                  | 912.5 - 913.5MHz   |
| No. of Channel:                      | 3  |
| Antenna Type:                        | Integral   |
| Manufacture of Antenna:              | Acoustic Arc International Ltd.  |
| Antenna Gain:                        | 0 dBi  |
| Accessories and Auxiliary Equipment: | iPod   |
| EUT Exercising Software:             | None   |

#### General Operation of EUT

The Equipment Under Test (EUT) is a transmitter of wireless Speakers operated at 912 MHz to 914 MHz

### 1.4 Equipment Modification

No modification was made to the tested unit by TÜV SÜD Hong Kong Ltd.

### 1.5 Related Submittal(s) Grants

This is a single application of certification for this transmitter.



## 2.0 Technical Details

### 2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4: 2003.

### 2.2 Test Standards and Results Summary Tables

| <b>EMISSION<br/>Results Summary</b>         |   |                                     |                          |                          |
|---|---|-------------------------------------|--------------------------|--------------------------|
| Test Condition                              | FCC Test Requirement                          | Test Result                         |                          |                          |
|   |   | Pass                                | Failed                   | N/A                      |
| Field Strength of Fundamental and Harmonics | Part 15.249 (a),(e)                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Spurious Radiated Emission                  | Part 15.249 (d)<br>Part 15.209<br>Part 15.205 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Out of Band Emissions                       | Part 15.249 (d)                               | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bandwidth Measurement                       | Part 15.215 (c)                               | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conducted Emission                          | Part 15.207                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable



### **3.0 Test Methodology**

#### **3.1 Radiated Emission**

The sample was placed 0.8m above the ground plane on a standard emission test site \*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

#### **3.2 Field Strength Calculation**

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

$$\begin{aligned} \text{FS} &= \text{R} + \text{System Factor} \\ \text{System Factor} &= \text{AF} + \text{CF} + \text{FA} - \text{PA} \end{aligned}$$

Where FS = Net Field Strength in dBuV/m at 3 meters.

R = Reading of Spectrum Analyzer / Test Receiver in dBuV.

AF = Antenna Factor in dB.

CF = Cable Attenuation Factor in dB.

FA = Filter Attenuation Factor in dB.

PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

#### **3.3 Conducted Emissions**

The EUT was placed on a non-metallic table 0.8m above the horizontal metal reference plane and 0.4m from a vertical ground plane which is connected to the horizontal metal ground plane. Meanwhile, the AC main of EUT was connected to the distance of 0.8m line impedance stabilization network (LISN) during measurement.

Initial measurements were performed in quasi-peak and average detection modes by the test receiver, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

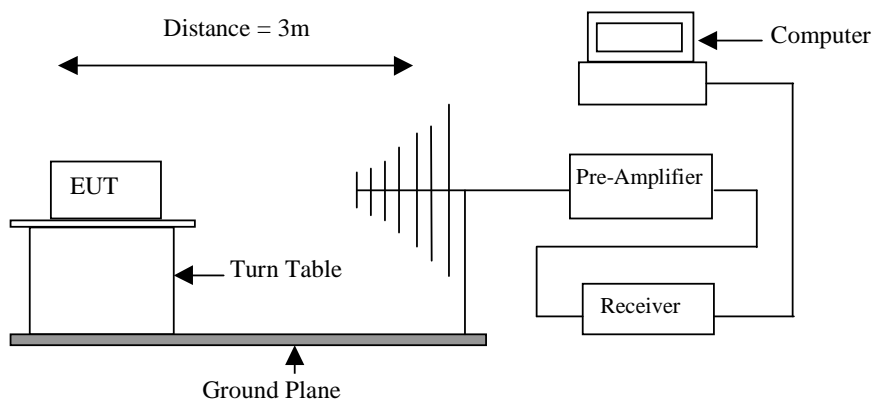


#### **4.0 Test Results**

##### **4.1 Field Strength of Fundamental and Harmonics**

|                    |  |
|--------------------|--|
| Test Requirement:  | FCC part 15 section 15.249(a)(e)                                 |
| Test Method:       | ANSI C63.4:2003  |
| Test Date:         | 2012-09-27   |
| Mode of Operation: | Transmitting mode.   |
| Detector Function: | Quasi-peak (Below 1000 MHz)<br>Average and Peak (Above 1000 MHz) |
| Measurement BW:    | 120 kHz (Below 1000 MHz)<br>1 MHz (Above 1000 MHz)               |

##### **Test Setup:**







Results: PASS

| Field Strength of Fundamental and Harmonics |       |                                   |                     |                       |                            |                                      |                 |                             |          |
|---|-------|-----------------------------------|---------------------|-----------------------|----------------------------|--------------------------------------|-----------------|-----------------------------|----------|
| Channel                                     | Value | Emissions<br>Frequency<br><br>MHz | E-Field<br>Polarity | Reading<br><br>dBμV/m | System<br>Factor<br><br>dB | Field<br>Strength<br>at 3m<br>dBμV/m | Limit<br>dBμV/m | Delta to<br>Limit<br>dBμV/m | Remarks  |
| 1   | QP    | 912.50                            | V                   | 67.44                 | 18.93                      | 86.37                                | 94.00           | -7.63                       | Fund.    |
| 1   | QP    | 912.50                            | H                   | 69.11                 | 18.93                      | 88.04                                | 94.00           | -5.96                       | Fund.    |
| 3   | QP    | 913.50                            | V                   | 68.00                 | 18.70                      | 86.70                                | 94.00           | -7.30                       | Fund.    |
| 3   | QP    | 913.50                            | H                   | 69.16                 | 18.70                      | 87.86                                | 94.00           | -6.14                       | Fund.    |
| 1   | AV    | 1977.72                           | V                   | 35.71                 | -11.69                     | 24.02                                | 54.00           | -29.98                      | Harmonic |
|   | PK    | 1977.72                           |                     | 46.34                 | -11.75                     | 34.59                                | 74.00           | -39.41                      | Harmonic |
| 1   | AV    | 1899.39                           | H                   | 33.94                 | -12.13                     | 21.81                                | 54.00           | -32.19                      | Harmonic |
|   | PK    | 1899.39                           |                     | 45.13                 | -12.19                     | 32.94                                | 74.00           | -41.06                      | Harmonic |
| 3   | AV    | 5888.86                           | V                   | 38.83                 | -1.85                      | 36.98                                | 54.00           | -17.02                      | Harmonic |
|   | PK    | 5888.86                           |                     | 51.40                 | -1.81                      | 49.59                                | 74.00           | -24.41                      | Harmonic |
| 3   | AV    | 3116.09                           | H                   | 42.26                 | -7.53                      | 34.73                                | 54.00           | -19.27                      | Harmonic |
|   | PK    | 3116.09                           |                     | 53.47                 | -7.53                      | 45.94                                | 74.00           | -28.06                      | Harmonic |

Remark : - ( \* ) Radiated emissions which fall in the restricted bands as defined in Section 15.205(a).

- Calculated measurement uncertainty:  $\pm 5.0$ dB

**Limits of Field Strength for Fundamental and Harmonics Frequency [ Section 15.249 (a) ]:**

| Fundamental Frequency<br>[MHz] | Field Strength of Fundamental |                | Field Strength of Harmonics |                |
|--------------------------------|-------------------------------|----------------|-----------------------------|----------------|
|                                | [mV/m]                        | [dB $\mu$ V/m] | [ $\mu$ V/m]                | [dB $\mu$ V/m] |
| 902 - 928                      | 50                            | 94             | 500                         | 54             |

Compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector.

**Limit Requirement under Section 15.249 (e) :**

According to section 15.249 (e), for frequencies above 1000MHz, the above field strength limits is based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

**Limit for Radiated Emission [ Section 15.209 ]:**

| Frequency (MHz) | Field Strength<br>[ $\mu$ V/m] | Field Strength<br>[dB $\mu$ V/m] |
|-----------------|--------------------------------|----------------------------------|
| 30-88           | 100                            | 40.0                             |
| 88-216          | 150                            | 43.5                             |
| 216-960         | 200                            | 46.0                             |
| Above 960       | 500                            | 54.0                             |

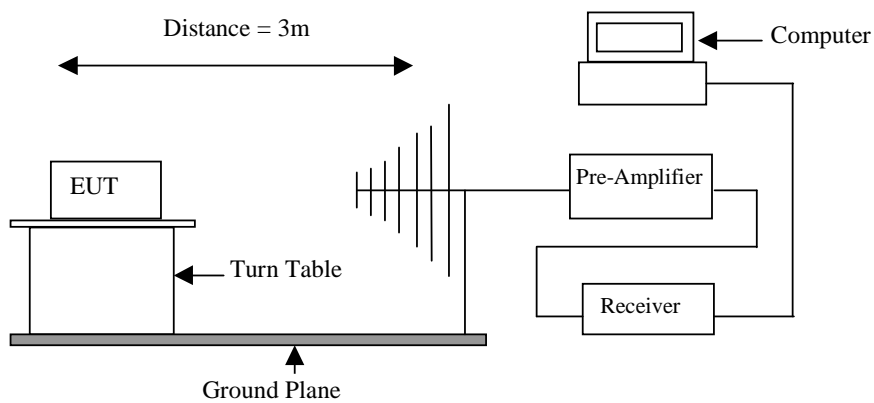
Radiated emissions, which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209.

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### 4.2 Spurious Radiated Emission

|                    |  |
|--------------------|--|
| Test Requirement:  | FCC part 15 section 15.249(d), 15.209                            |
| Test Method:       | ANSI C63.4:2003  |
| Test Date:         | 2012-09-27   |
| Mode of Operation: | Transmitting Mode  |
| Detector Function: | Quasi-peak (Below 1000 MHz)<br>Average and Peak (Above 1000 MHz) |
| Measurement BW:    | 120 kHz (Below 1000 MHz)<br>1 MHz (Above 1000 MHz)               |

##### Test Setup:





Results: PASS

| Spurious Radiated Emissions |       |                        |                     |         |                  |                            |        |                   |
|-----------------------------|-------|------------------------|---------------------|---------|------------------|----------------------------|--------|-------------------|
| Channel                     | Value | Emissions<br>Frequency | E-Field<br>Polarity | Reading | System<br>Factor | Field<br>Strength<br>at 3m | Limit  | Delta to<br>Limit |
|                             |       | MHz                    |                     | dBμV/m  | dB               | dBμV/m                     | dBμV/m | dBμV/m            |
| 1                           | QP    | 34.28                  | V                   | 21.61   | 8.76             | 30.37                      | 40.00  | -9.63             |
| 1                           | QP    | 101.64                 | V                   | 15.91   | 6.67             | 22.58                      | 43.50  | -20.92            |
| 1                           | QP    | 140.34                 | V                   | 22.66   | 3.40             | 26.06                      | 43.50  | -17.44            |
| 1                           | QP    | 206.40                 | V                   | 19.55   | 5.06             | 24.61                      | 43.50  | -18.89            |
| 1                           | QP    | 739.66                 | V                   | 17.13   | 18.07            | 35.20                      | 46.00  | -10.80            |
| 1                           | QP    | 31.29                  | H                   | 21.46   | 8.25             | 29.71                      | 40.00  | -10.29            |
| 1                           | QP    | 32.41                  | H                   | 22.15   | 8.44             | 30.59                      | 40.00  | -9.41             |
| 1                           | QP    | 37.81                  | H                   | 20.40   | 9.33             | 29.73                      | 40.00  | -10.27            |
| 1                           | QP    | 143.33                 | H                   | 21.80   | 3.45             | 25.25                      | 43.50  | -18.25            |
| 3                           | QP    | 33.80                  | V                   | 21.53   | 8.68             | 30.21                      | 40.00  | -9.79             |
| 3                           | QP    | 112.13                 | V                   | 22.15   | 5.65             | 23.24                      | 43.50  | -20.26            |
| 3                           | QP    | 139.36                 | V                   | 23.07   | 3.44             | 26.51                      | 43.50  | -16.99            |
| 3                           | QP    | 203.52                 | V                   | 20.76   | 4.87             | 25.63                      | 43.50  | -17.87            |
| 3                           | QP    | 739.66                 | V                   | 15.88   | 18.07            | 33.95                      | 46.00  | -12.05            |
| 3                           | QP    | 32.41                  | H                   | 25.56   | 8.44             | 34.00                      | 40.00  | -6.00             |
| 3                           | QP    | 104.54                 | H                   | 15.66   | 6.39             | 22.05                      | 43.50  | -21.45            |
| 3                           | QP    | 142.32                 | H                   | 21.28   | 3.42             | 24.70                      | 43.50  | -18.80            |
| 3                           | QP    | 318.82                 | H                   | 20.43   | 10.46            | 30.89                      | 46.00  | -15.11            |
| 3                           | QP    | 750.11                 | H                   | 16.78   | 17.78            | 34.56                      | 46.00  | -11.44            |

Note: - No further spurious emissions found between 30MHz and lowest internal used / generated frequency.  
 - Result data graph is shown at the following pages for reference.

Remark : - ( \* ) Radiated emissions which fall in the restricted bands as defined in Section 15.205(a).  
 - Calculated measurement uncertainty:  $\pm 5.0$ dB.

**Limit of Outside of the Specified Bands [ Section 15.249 (d) ]**

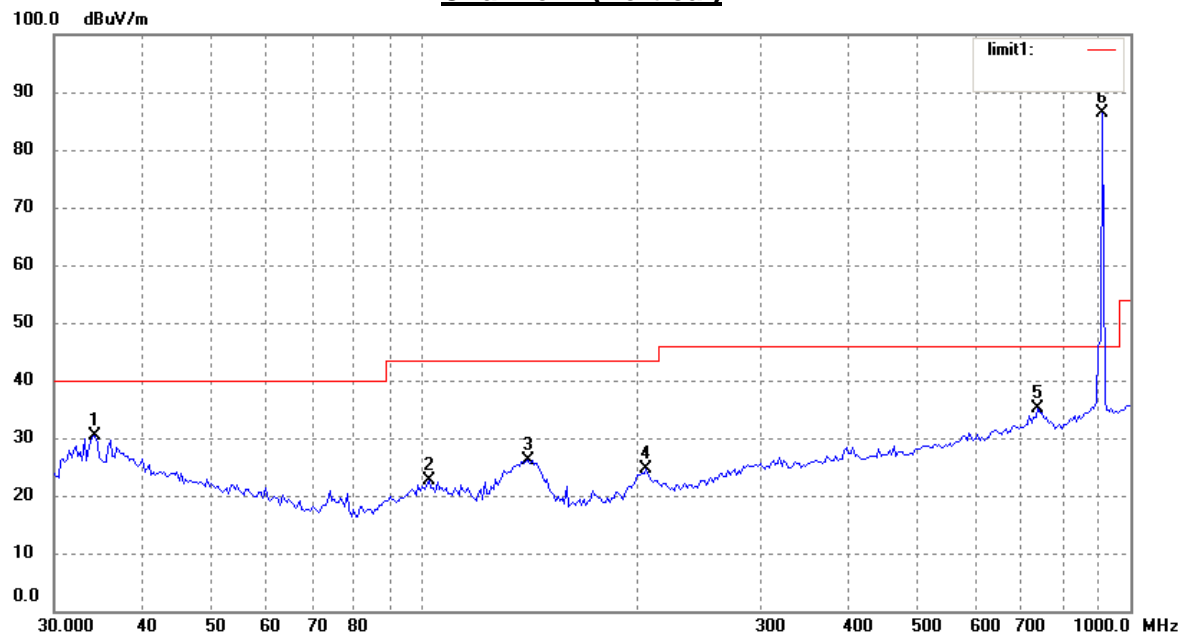
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in section 15.209, whichever is the lesser attenuation

**Limit for Radiated Emission [ Section 15.209 ]:**

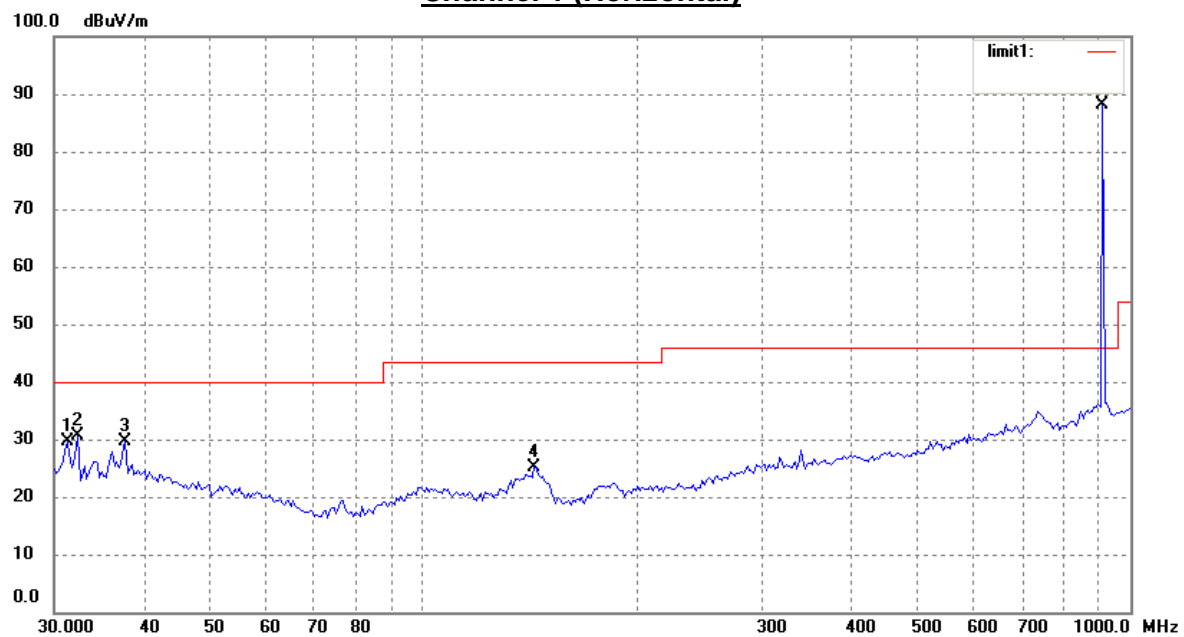
| Frequency (MHz) | Field Strength<br>[ $\mu\text{V/m}$ ] | Field Strength<br>[dB $\mu\text{V/m}$ ] |
|-----------------|---------------------------------------|---|
| 30-88           | 100                                   | 40.0                                    |
| 88-216          | 150                                   | 43.5                                    |
| 216-960         | 200                                   | 46.0                                    |
| Above 960       | 500                                   | 54.0                                    |

Radiated emissions, which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209.

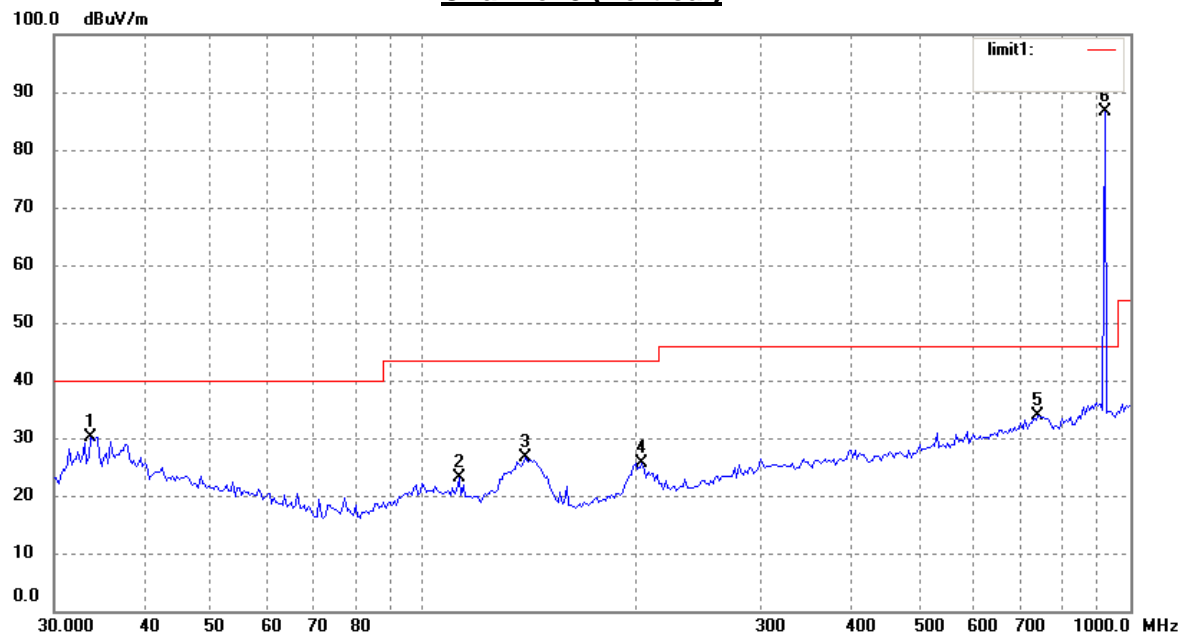
The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

**Channel 1 (Vertical)**

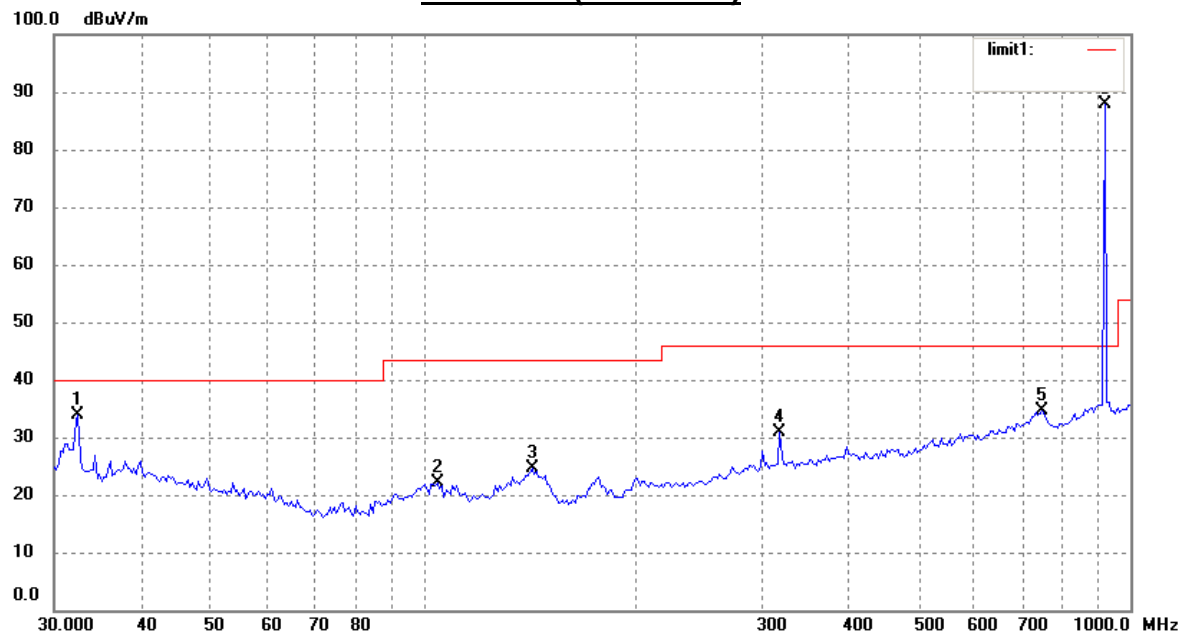
Remark: Only background noise was measured from 1GHz-10GHz except about operating frequency.

**Channel 1 (Horizontal)**

Remark: Only background noise was measured from 1GHz-10GHz except about operating frequency.

**Channel 3 (Vertical)**

Remark: Only background noise was measured from 1GHz-10GHz except about operating frequency.

**Channel 3 (Horizontal)**

Remark: Only background noise was measured from 1GHz-10GHz except about operating frequency.



#### **4.3 Out of Band Emissions**

|                    |                                |
|--------------------|--------------------------------|
| Test Requirement:  | FCC part 15 section 15.249 (d) |
| Test Method:       | ANSI C63.4:2003                |
| Test Date:         | 2012-09-27                     |
| Mode of Operation: | Transmitting mode.             |
| Detector Function: | Peak                           |

#### **Results: PASS**

Refer to the data graph, the lower and higher edge of the specified frequency bands fulfill the general radiated emission limits in section 15.209. Therefore, the EUT meets the requirement of section 15.249 (d).

#### **Limit for Out of Band Emissions [ Section 15.249 (d) ]**

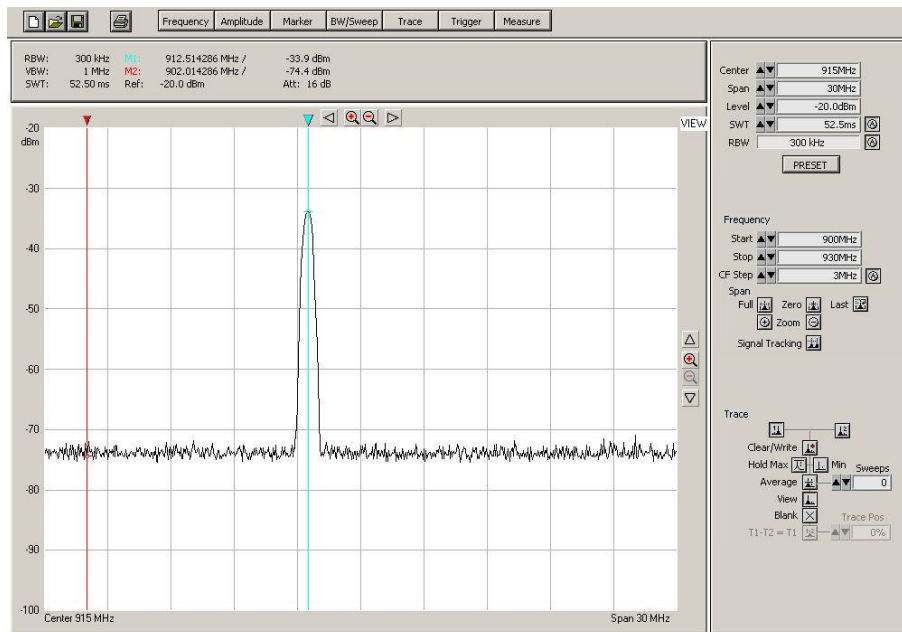
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in section 15.209, whichever is the lesser attenuation.

**Test Result:** Result data graph is shown at the next pages for reference.

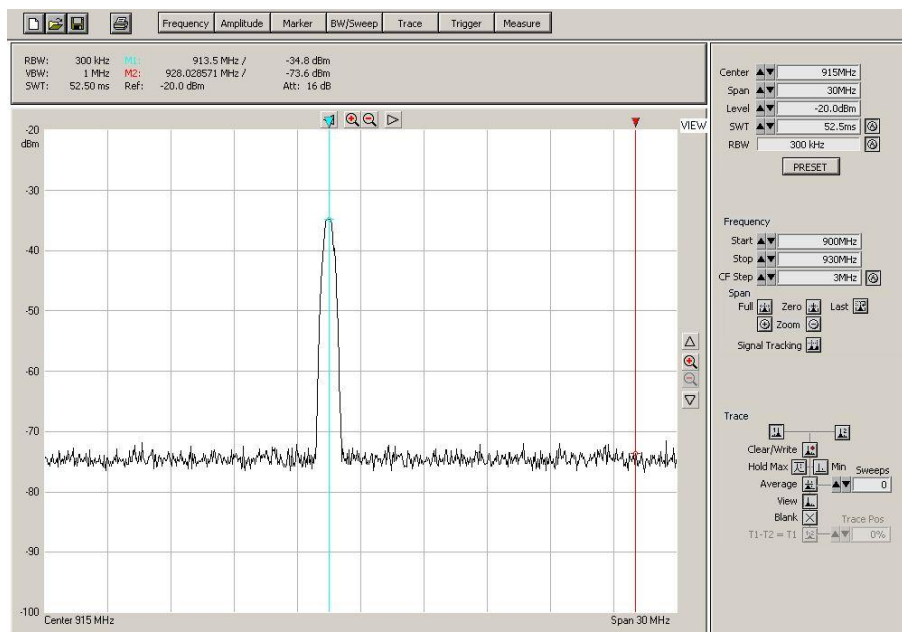




### Lowest Channel



### Highest Channel





#### **4.4 Bandwidth Measurement**

|                    |                                |
|--------------------|--------------------------------|
| Test Requirement:  | FCC part 15 section 15.215 (c) |
| Test Method:       | ANSI C63.4:2003                |
| Test Date:         | 2012-09-27                     |
| Mode of Operation: | Transmitting mode.             |
| Detector Function: | Peak                           |

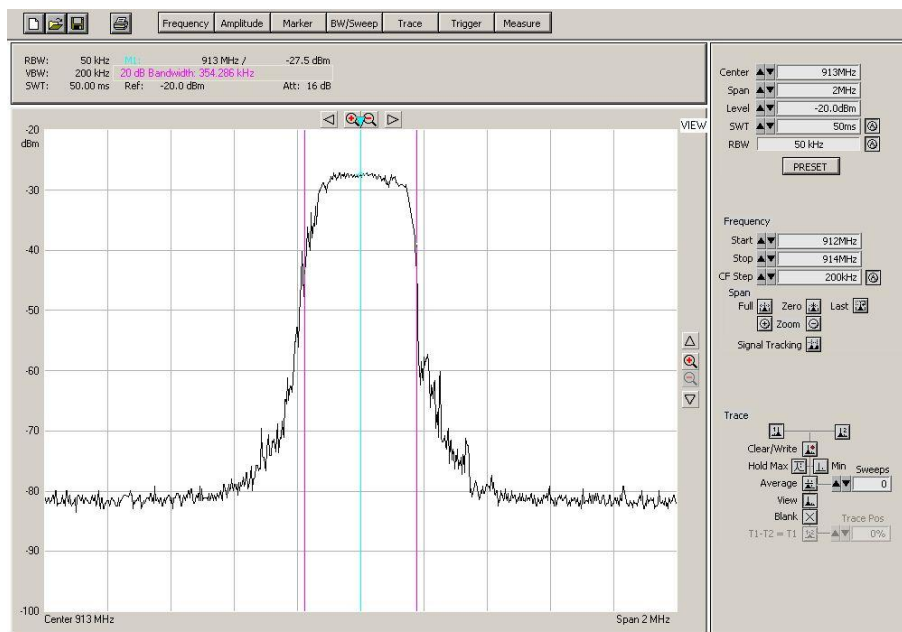
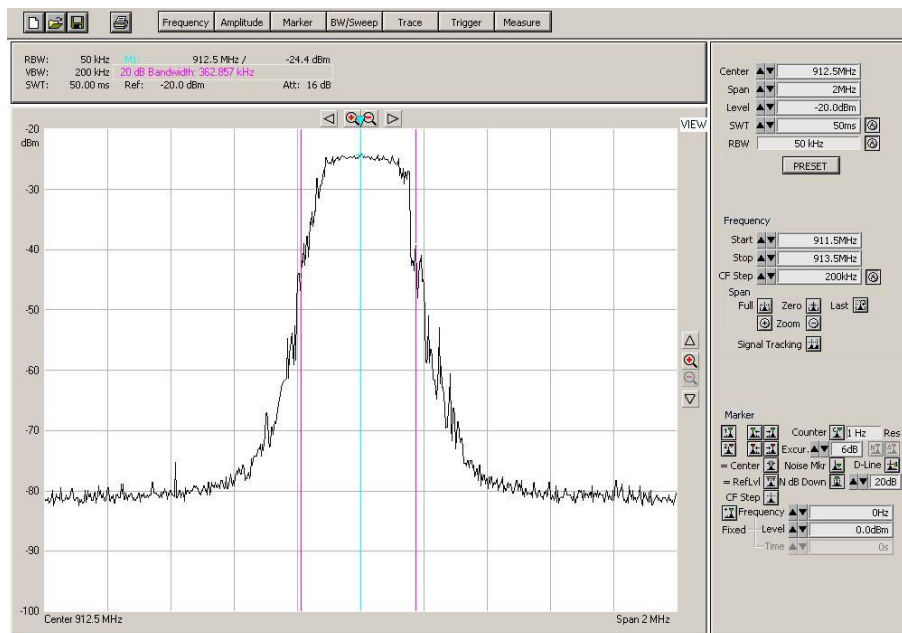
#### **Results: PASS**

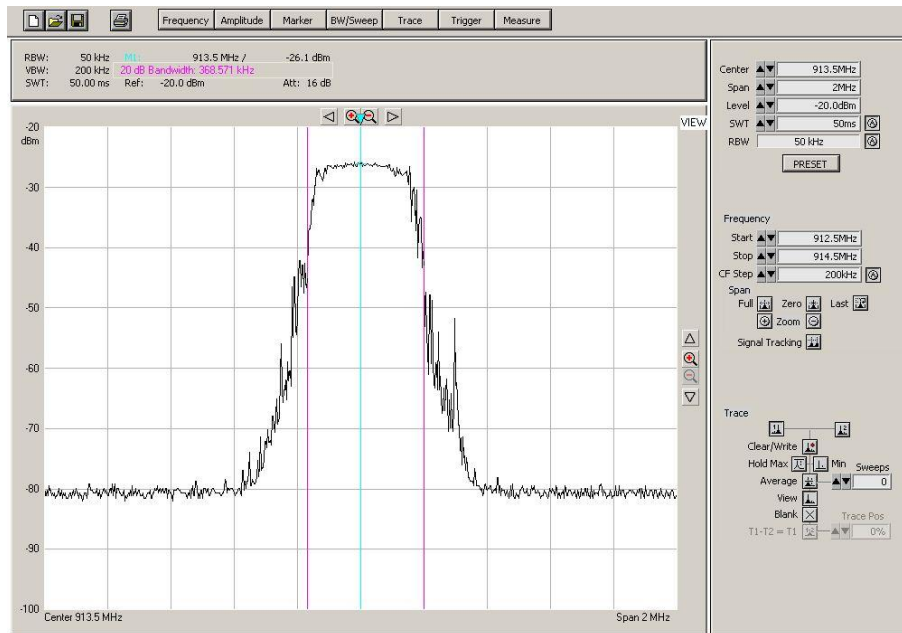
Refer to the data graph, the 20dB points of Channel 1, Channel 2 and Channel 3 are 362.857kHz, 354.286kHz and 368.571kHz. All channels within the operation bandwidth when equipment is operated. Therefore, the EUT meets the requirement of section 15.215(c).

#### **Limit for Bandwidth [ Section 15.215 (c) ]**

The 20dB bandwidth of the emission shall be within the frequency band designated in the rule section under which the equipment is operated.

**Test Result:** Result data graph is shown at the next pages for reference.

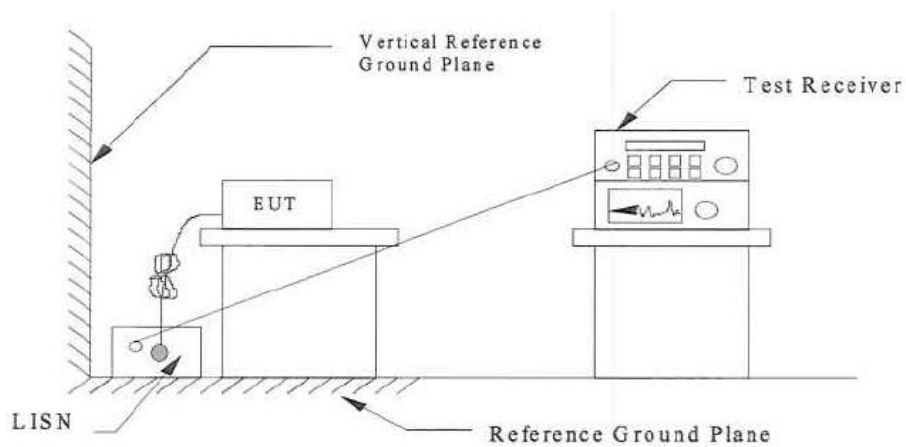




#### 4.5 Conducted Emissions (0.15MHz to 30MHz)

|                    |  |
|--------------------|--|
| Test Requirement:  | FCC part 15 Section 15.207 Class B           |
| Test Method:       | ANSI C63.4:2003                              |
| Test Date:         | 2012-09-27                                   |
| Mode of Operation: | Transmitting and Charging for normal operate |
| Detector Function: | Quasi-peak, average                          |
| Measurement BW:    | 9 kHz  |

##### Test Setup:





Results: PASS

| Conducted Emission |                  |       |                     |                    |        |
|--------------------|------------------|-------|---------------------|--------------------|--------|
| Frequency (MHz)    | Detector (QP/AV) | Phase | Result (dB $\mu$ V) | Limit (dB $\mu$ V) | Margin |
| 0.238              | QP               | L     | 41.31               | 61.48              | -20.17 |
| 0.346              | AV               | L     | 26.25               | 49.05              | -22.80 |
| 0.374              | QP               | L     | 35.60               | 58.40              | -22.80 |
| 0.778              | AV               | L     | 24.43               | 46.00              | -21.57 |
| 0.946              | QP               | L     | 30.23               | 56.00              | -25.77 |
| 1.102              | AV               | L     | 21.02               | 46.00              | -24.98 |
| 2.602              | AV               | L     | 16.04               | 46.00              | -29.96 |
| 15.366             | AV               | L     | 23.59               | 50.00              | -26.41 |
| 15.666             | QP               | L     | 35.51               | 60.00              | -24.49 |
| 0.294              | QP               | N     | 38.13               | 60.40              | -22.27 |
| 0.294              | AV               | N     | 25.86               | 50.40              | -24.54 |
| 0.370              | QP               | N     | 35.78               | 58.49              | -22.71 |
| 0.778              | AV               | N     | 24.56               | 46.00              | -21.44 |
| 0.878              | AV               | N     | 21.23               | 46.00              | -24.77 |
| 0.914              | QP               | N     | 31.26               | 56.00              | -24.74 |
| 15.310             | QP               | N     | 32.17               | 60.00              | -27.83 |

Note : - The worst case result data graph is attached at the next pages for reference.

Remark: - The EUT is connected to AC/DC Adaptor during testing.

- Calculated measurement uncertainty:  $\pm 2.8$ dB

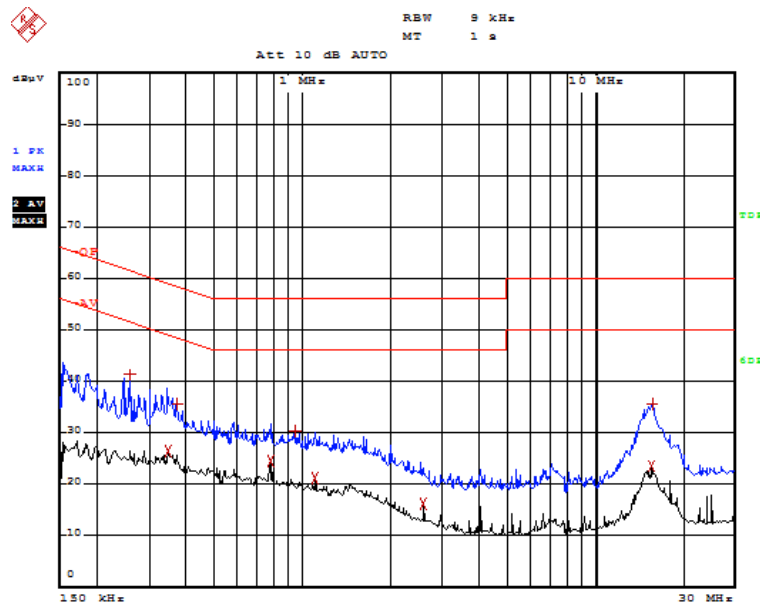
#### Limits for Conducted Emission [ Section 15.207]:

| Frequency Range [MHz] | Quasi-Peak Limit [dB $\mu$ V] | Average Limit [dB $\mu$ V] |
|-----------------------|-------------------------------|----------------------------|
| 0.15-0.5              | 66 to 56*                     | 56 to 46*                  |
| 0.5-5.0               | 56                            | 46                         |
| 5.0-30.0              | 60                            | 50                         |

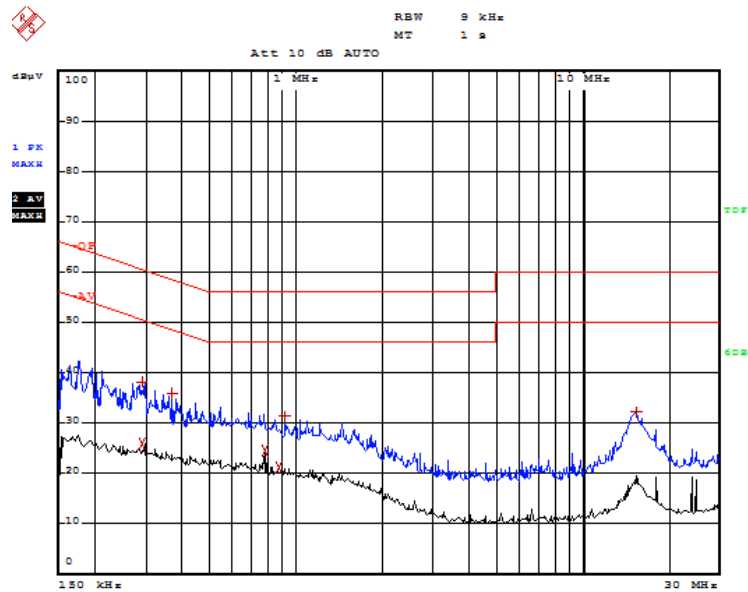
\* Decreases with the logarithm of the frequency.



## Conducted Emissions Result



Phase – L



Phase – N



## 5.0 List of Measurement Equipment

### Radiated Emission and Out of Band Emissions

| Description              | Manufacturer         | Model no. | Serial no. | CAL due     |
|--------------------------|----------------------|-----------|------------|-------------|
| Spectrum Analyzer        | Agilent              | E4402B    | US41192821 | 27 Mar 2013 |
| Test Receiver            | R & S                | ESI26     | 838786/013 | 27 Mar 2013 |
| DC Power Supply          | LW                   | APR-3003  | N/A        | 15 Jul 2013 |
| Spectrum Analyzer        | R & S                | FSP30     | 836079/035 | 27 Mar 2013 |
| Positioning Controller   | C&C                  | CC-C-1F   | N/A        | 19 Dec 2012 |
| RF Switch                | EM                   | EMSW18    | SW060023   | 19 Dec 2012 |
| Pre-amplifier            | Agilent              | 8447F     | 3113A06717 | 27 Mar 2013 |
| Pre-amplifier            | Compliance Direction | PAP-1G18  | 24002      | 27 Mar 2013 |
| Trilog Broadband Antenna | SCHWARZBECK          | VULB9163  | 9163-333   | 24 Feb 2013 |
| Horn Antenna             | ETS                  | 3117      | 00086197   | 24 Feb 2013 |
| Anechoic chamber         | Albatross Projects   | MCDC      | SW060023   | 19 Mar 2013 |

### Conducted Emission

| Description       | Manufacturer    | Model no. | Serial no. | CAL due     |
|-------------------|-----------------|-----------|------------|-------------|
| EMI Test Receiver | Rohde & Schwarz | ESPI      | 101611     | 27 Mar 2013 |
| L.I.S.N           | Schwarzbeck     | NSLK8126  | 8126-224   | 27 Mar 2013 |
| Pulse Limiter     | Rohde & Schwarz | ESH3-Z2   | 100911     | 27 Mar 2013 |
| AMN               | EMCO            | 3825/2    | 11967C     | 27 Mar 2013 |

Remarks:

CM Corrective Maintenance

N/A Not Applicable or Not Available