



STC (Dongguan) Company Limited  
**EC DECLARATION OF CONFORMITY**

**Reference Number:** EMC-D111059DOC

Darveen Technology Ltd.  
Room 7F-B, West 210 Building, No.4 Tairan Road, Chegong Miao, Futian District, Shenzhen, China

declare the product

Description: Industrial Mobile Computer

Brand Name: Darveen

Model: VT-635

complies with the requirements of the  
**EC Council Directive on electromagnetic compatibility 2004/108/EC**

**Applicable Standard(s) with amendments:**

EN55022: 2006 +A1: 2007

EN55024: 1998 +A1: 2001 +A2: 2003

EN61000-3-2: 2006 +A1: 2009 +A2: 2009

EN61000-3-3: 2008

**General Remarks:**

This declaration is only valid when used in conjunction with the technical file(s) refers to DM106337.

This declaration applies specifically to the sample(s) investigated in the technical report mentioned above and not to the bulk.

The CE marking as shown below can be affixed on the product after preparation of necessary conformity documentation, as stipulated in Articles of the Council Directive 2004/108/EC.


**Manufacturer/Importer**



**Test Laboratory**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
LONG Yun  
Authorized Signatory  
ElectroMagnetic Compatibility  
For and on behalf of  
STC (Dongguan) Company Limited



[www.dgstc.org](http://www.dgstc.org)

**Date of Issue:** 2011-11-15



## STC Test Report



Deutsche  
Akkreditierungsstelle  
D-PL-12121-01-01

Date: 2011-11-15  
No.: DM106337

Page 1 of 29

**Applicant(DAT003):** Darveen Technology Ltd.  
Room 7F-B, West 210 Building, No.4 Tairan Road,  
Chegong Miao, Futian District, Shenzhen, China

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Industrial Mobile Computer  
Brand Name: Darveen  
Model Number: VT-635

**Date Sample(s) Received:** 2011-09-07

**Date Tested:** 2011-09-09 to 2011-10-21, 2011-11-11

**Investigation Requested:** Test for compliance with EMC requirements of EN55022,  
EN55024, EN61000-3-2 and EN61000-3-3.

**Conclusion(s):** The submitted product COMPLIED with the requirements  
of EN55022: 2006 +A1: 2007, EN55024: 1998 +A1:  
2001 +A2: 2003, EN61000-3-2: 2006 +A1: 2009 +A2:  
2009 and EN61000-3-3: 2008. The EMC tests were  
performed in accordance with the standards described  
above and on Section 2.2 in this Test Report.

**Remark(s):** ---

LONG Yun Jian  
Authorized Sign  
ElectroMagnetic Compatibility  
For and on behalf of  
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### STC (Dongguan) Company Limited

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## **STC Test Report**

**Date: 2011-11-15**

**No.: DM106337**

**Page 2 of 29**

### **CONTENT:**

Cover	Page 1 of 29
Content	Page 2-3 of 29
<b><u>1.0</u></b>	<b><u>General Details</u></b>
1.1	Equipment Under Test [EUT] Description of Sample(s)
1.2	Date of Order
1.3	Submitted Sample(s)
1.4	Test Duration
1.5	Country of Origin
<b><u>2.0</u></b>	<b><u>Technical Details</u></b>
2.1	Investigations Requested
2.2	Test Standards and Results Summary
<b><u>3.0</u></b>	<b><u>Test Results</u></b>
3.1	Emission
3.2	Immunity

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## **STC Test Report**

**Date: 2011-11-15**

**No.: DM106337**

**Page 3 of 29**

### **Appendix A**

List of Measurement Equipment

Page A1-A2 of A2

### **Appendix B**

Photograph(s) of Product

Front View of The Product

Rear View of The Product

Inner Circuit Top View

Inner Circuit Bottom View

Test Set Up

Page B1 of B11

Page B2 of B11

Page B3 of B11

Page B4 of B11

Page B5-B11 of B11

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## **STC Test Report**

**Date:** 2011-11-15

**Page 4 of 29**

**No.:** DM106337

### **1.0 General Details**

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

Product:	Industrial Mobile Computer
Manufacturer:	Darveen Technology Ltd. Room 7F-B, West 210 Building, No.4 Tairan Road, Chegong Miao, Futian District, Shenzhen, China
Brand Name:	Darveen
Model Number:	VT-635
Rating:	9-30VDC, 6A

#### **1.2 Date of Order**

2011-09-07

#### **1.3 Submitted Sample(s):**

1 Sample

#### **1.4 Test Duration**

2011-09-09 to 2011-10-21, 2011-11-11

#### **1.5 Country of Origin**

China

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## **STC Test Report**

**Date: 2011-11-15**

**Page 5 of 29**

**No.: DM106337**

### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference [EMI] & ElectroMagnetic Susceptibility [EMS] tests for CE Marking

#### **2.2 Test Standards and Results Summary Tables**

<b>Test Standards</b>	
EN55022: 2006 +A1: 2007	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN55024: 1998 +A1: 2001 +A2: 2003	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN61000-3-2: 2006 +A1: 2009 +A2: 2009	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)
EN61000-3-3: 2008	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection

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## **STC Test Report**

**Date: 2011-11-15**

**Page 6 of 29**

**No.: DM106337**

### **2.2 Test Standards and Results Summary Tables**

<b>EMISSION Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Radiated Emission, 30MHz to 1GHz	EN55022: 2006 +A1: 2007	EN55022: 2006 +A1: 2007	Class B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Emission on AC, 150kHz to 30MHz	EN55022: 2006 +A1: 2007	EN55022: 2006 +A1: 2007	Class B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Harmonic Emissions on AC Supply	EN61000-3-2: 2006 +A1: 2009 +A2: 2009	EN61000-3-2: 2006 +A1: 2009 +A2: 2009	Class D	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Voltage Fluctuations on AC Supply	EN61000-3-3: 2008	EN61000-3-3: 2008	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Limits are not specified once equipment with a rated power of 75 W or less

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## STC Test Report

Date: 2011-11-15

No.: DM106337

Page 7 of 29

### 2.2 Test Standards and Results Summary Tables

IMMUNITY Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Electrostatic Discharge	EN55024: 1998 +A1: 2001 +A2: 2003	EN61000-4-2: 1995	$\pm 2.0\text{kV}$ , $\pm 4.0\text{kV}$ Cont $\pm 2.0\text{kV}$ , $\pm 4.0\text{kV}$ , $\pm 8.0\text{kV}$ Air	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Immunity 80MHz to 1000MHz	EN55024: 1998 +A1: 2001 +A2: 2003	EN61000-4-3: 1996	3V/m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Fast Transients on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	EN61000-4-4: 1995	$\pm 1.0\text{kV}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surge Immunity on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	EN61000-4-5: 1995	$\pm 0.5\text{kV}$ $\pm 1.0\text{kV}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continuous RF Immunity on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	EN61000-4-6: 1996	3.0Vrms	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voltage Dips, Interruptions and Variations on AC Supply	EN55024: 1998 +A1: 2001 +A2: 2003	EN61000-4-11: 1994	0%, 70% of $U_T$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks:

N/A: Not Applicable

$U_T$ : The nominal supply voltage

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## **STC Test Report**

**Date:** 2011-11-15

**Page 8 of 29**

**No.:** DM106337

### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions (30MHz to 1000MHz)**

Test Requirement: EN 55022

Test Method: EN 55022

Level: Class B

Test Date(s): 2011-11-11

Mode of Operation: On mode

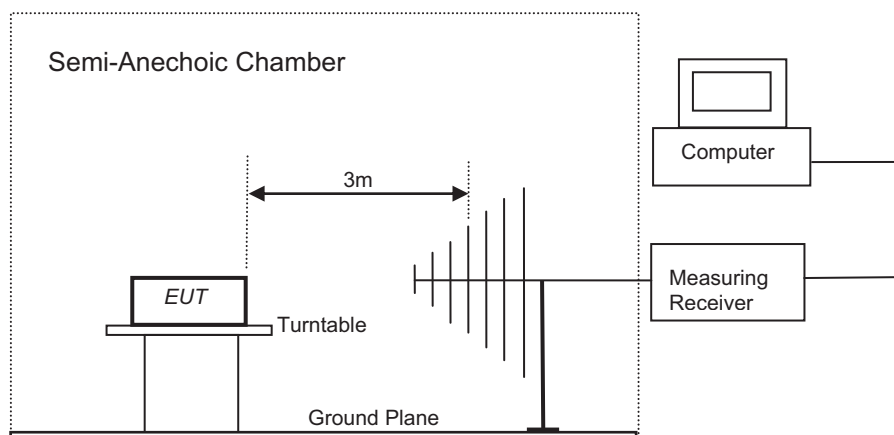
#### **Test Method:**

The test was performed in accordance with EN55022 at 3m test distance on a standard emission test site, with quasi-peak measurements performed if the maximised peak measurements were less than 6dB from the corresponding Class B limit lines.

#### **Test Procedure:**

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage as well as to produce the maximum electromagnetic disturbances.

#### **Test Setup:**



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## STC Test Report

Date: 2011-11-15

Page 9 of 29

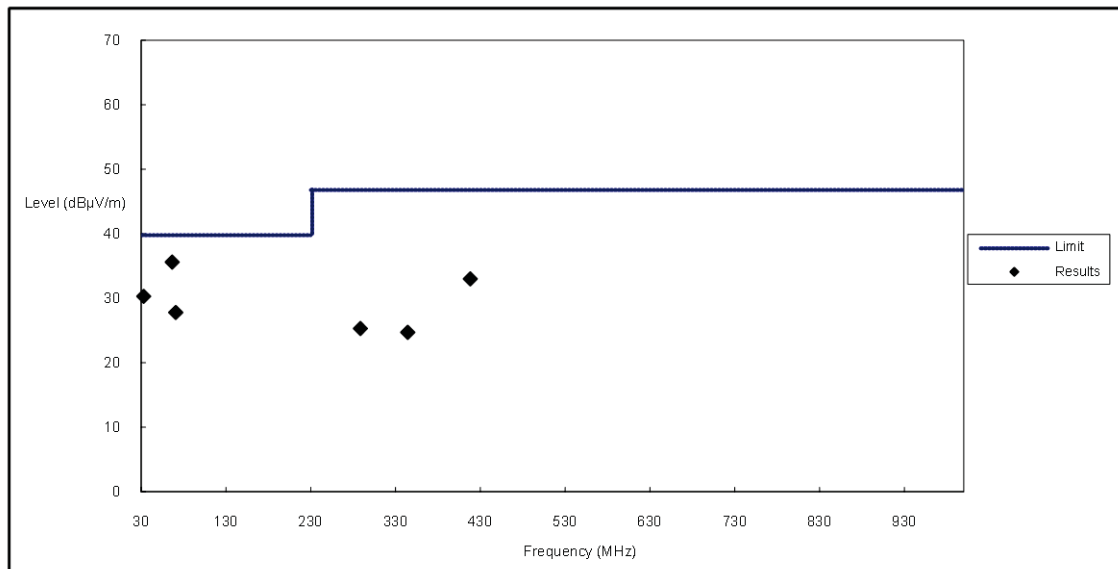
No.: DM106337

### Limits for Radiated Emission:

Frequency Range [MHz]	Quasi-Peak Limits [dB $\mu$ V/m]
30-230	40.0
230-1000	47.0

### Results of On mode: Pass

Please refer to the following table for result details



The quasi-peak measurements were recorded as follows:

Frequency MHz	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB	E-Field Polarity
33.0	30.3	40	-9.7	Vertical
66.6	35.6	40	-4.4	Vertical
70.8	27.8	40	-22.2	Horizontal
288.4	25.3	47	-21.7	Horizontal
344.4	24.7	47	-22.3	Horizontal
418.1	33.0	47	-14.0	Horizontal

Remark:

Calculated measurement uncertainty: 4.6dB

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## **STC Test Report**

**Date:** 2011-11-15

**Page 10 of 29**

**No.:** DM106337

### **3.1.2 Conducted Emissions (150kHz to 30MHz)**

Test Requirement:	EN 55022
Test Method:	EN 55022
Level:	Class B

Test Date(s):	2011-10-21
---------------	------------

Mode of Operation:	On mode
--------------------	---------

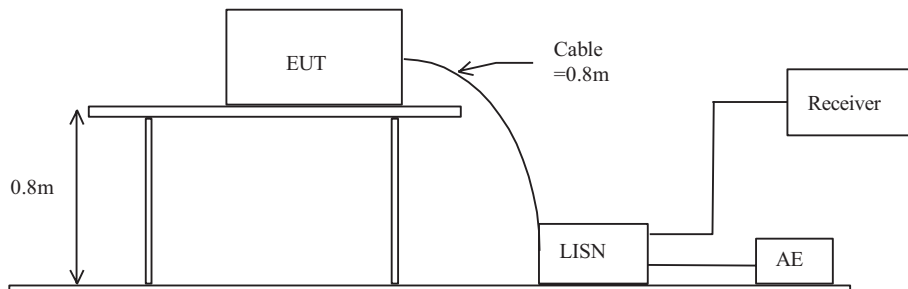
#### **Test Method:**

Initial measurements were performed in peak and average detection modes on the live line. 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. The test was performed in accordance with EN 55022.

#### **Test Procedure:**

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage as well as to produce the maximum electromagnetic disturbances.

#### **Test Setup:**



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## STC Test Report

Date: 2011-11-15  
No.: DM106337

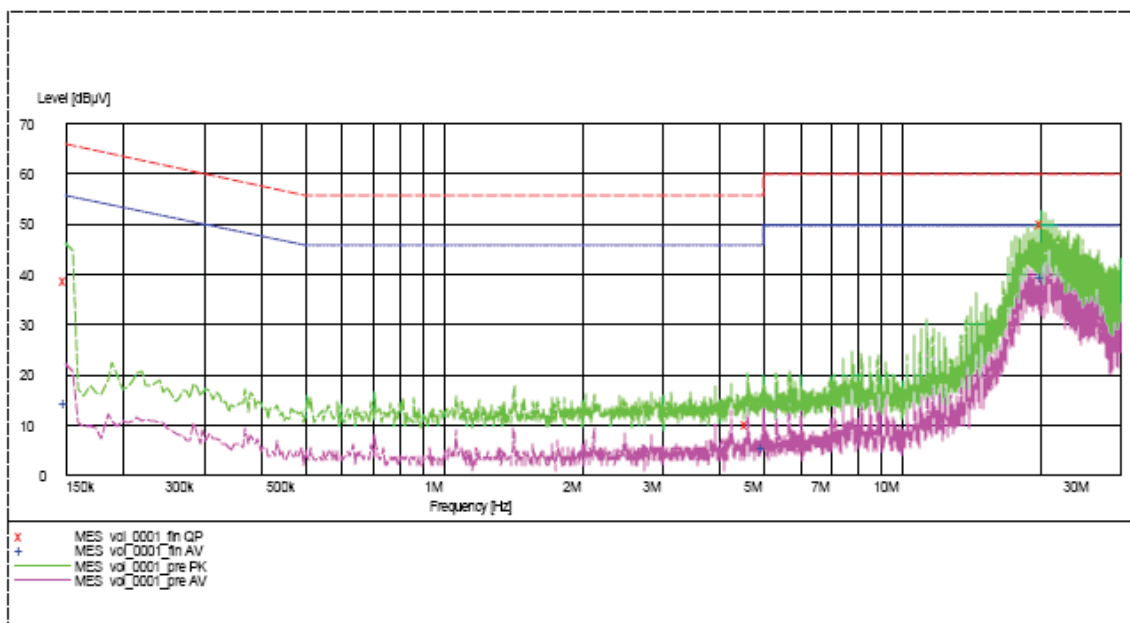
Page 11 of 29

### Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Results of On mode (L): Pass

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol\_0001\_fin AV"

10/21/2011 6:05PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.150000	14.50	9.6	56	41.5	L1	GND
4.975000	5.80	9.7	46	40.2	L1	GND
20.240000	39.50	10.1	50	10.5	L1	GND

MEASUREMENT RESULT: "vol\_0001\_fin QP"

10/21/2011 6:05PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.150000	38.70	9.6	66	27.3	L1	GND
4.625000	10.10	9.7	56	45.9	L1	GND
20.210000	50.20	10.1	60	9.8	L1	GND

Remark:

Calculated measurement uncertainty: 3.4dB

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Date: 2011-11-15  
No.: DM106337

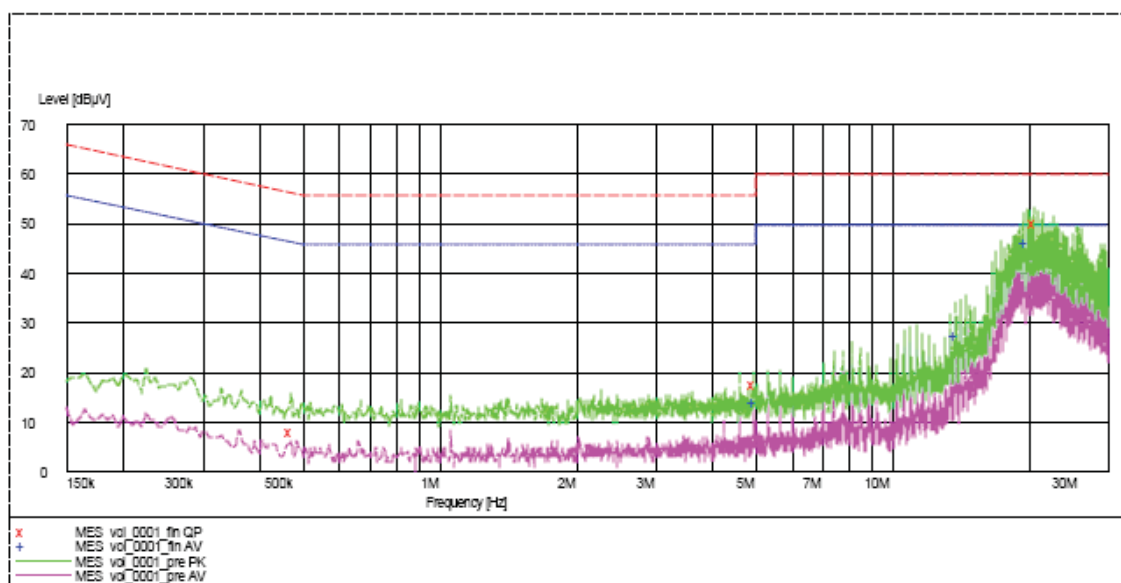
Page 12 of 29

### Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Results of On mode(N): Pass

Please refer to the following diagram for individual results.



### MEASUREMENT RESULT: "vol\_0001\_fin AV"

10/21/2011 6:11PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
4.955000	14.00	9.7	46	32.0	N	GND
13.800000	27.70	9.9	50	22.3	N	GND
19.810000	46.20	10.1	50	3.8	N	GND

### MEASUREMENT RESULT: "vol\_0001\_fin QP"

10/21/2011 6:11PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.470000	8.10	9.6	57	48.4	N	GND
4.955000	17.60	9.7	56	38.4	N	GND
20.520000	50.30	10.1	60	9.7	N	GND

Remark:

Calculated measurement uncertainty: 3.4dB

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## **STC Test Report**

**Date: 2011-11-15**

**Page 13 of 29**

**No.: DM106337**

### **3.1.3 Harmonics Emissions on AC Supply**

Test Requirement:	EN 61000-3-2
Test Method:	EN 61000-3-2
Level:	Class A

Test Date(s):	2011-09-09
---------------	------------

Mode of Operation:	On mode
Input Voltage:	230Va.c.

#### **Test Method:**

The test was performed in accordance with EN 61000-3-2.

#### **Test Procedure:**

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage as well as to produce the maximum electromagnetic disturbances.

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## STC Test Report

Date: 2011-11-15

Page 14 of 29

No.: DM106337

### Results and limit line for Harmonics Emissions:

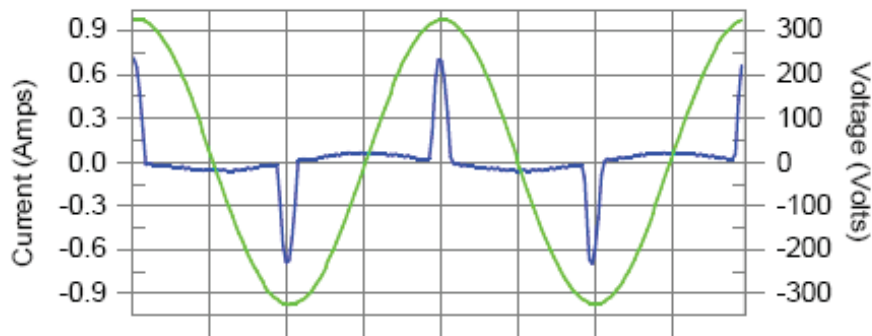
For limits for Harmonics Emission Test, please refer to limit lines (saw-tooth) in the following diagram.

### Results of On mode:

Limits are not specified once equipment with a rated power of 75 W or less

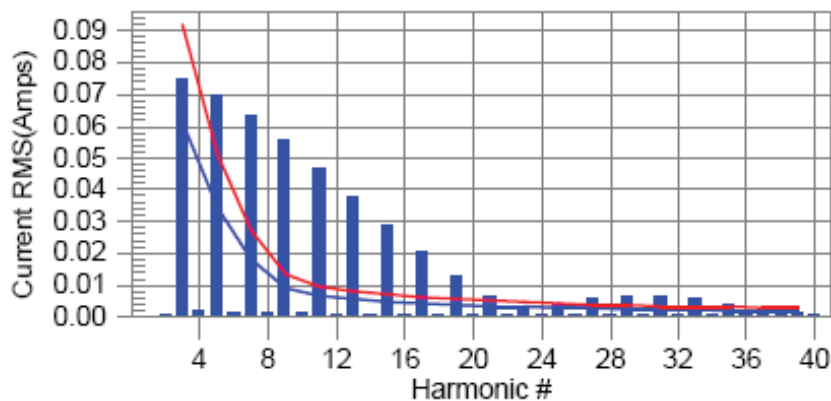
Please refer to the following table for individual results.

#### Current & voltage waveforms



#### Harmonics and Class D limit line

#### European Limits



Remark:

Calculated measurement uncertainty: 7.1%

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## **STC Test Report**

**Date:** 2011-11-15

**Page 15 of 29**

**No.:** DM106337

### **3.1.4 Emission for Fluctuations & Flicker**

Test Requirement:	EN 61000-3-3
Test Method:	EN 61000-3-3
Level:	N/A

Test Date(s):	2011-09-09
---------------	------------

Mode of Operation:	On mode
--------------------	---------

#### **Test Method:**

The test was performed in accordance with EN 61000-3-3.

#### **Test Procedure:**

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage as well as to produce the maximum electromagnetic disturbances.

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## **STC Test Report**

**Date: 2011-11-15**

**Page 16 of 29**

**No.: DM106337**

### **Limits for Flicker:**

Please refer to the result table for details.

### **Results of On mode: Pass**

Please refer to the following table for individual results.

#### Maximum Occurring Levels:

Pst:	0.064	Limit =	1.00	(The Highest Short Term Flicker Value)
Plt:	0.028	Limit =	0.65	(The Highest Long Term Flicker Value)
dc(%):	0.00	Limit =	3.30%	(The Highest Relative Steady State Voltage Change (1sec))
dmax:	0.00	Limit =	4.00%	(*The Highest Maximum Relative Voltage Change)
Tdt:	0.00	Limit =	500ms	(The Max Time (in milli-sec) that dt exceeds 3.3%)
Ut:	230.21V			(EUT Test RMS Voltage)

#### Remark:

\* - Some products may have more relax limits (refer to Clause 5 of EN 61000-3-3)

Calculated measurement uncertainty: 7.7%

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## **STC Test Report**

**Date: 2011-11-15**

**Page 17 of 29**

**No.: DM106337**

### **3.2 Immunity**

#### **3.2.1 Susceptibility Performance Criteria**

<b>A</b>	<b>Normal performance within the specification limits</b>
<b>B</b>	<b>Temporary degradation or loss of function or performance which is self-recoverable</b>
<b>C</b>	<b>Temporary degradation or loss of function or performance which requires operator intervention or system reset</b>
<b>D</b>	<b>Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data</b>

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## STC Test Report

Date: 2011-11-15  
No.: DM106337

Page 18 of 29

### 3.2.2 Electrostatic Discharge

Test Requirement:	EN 55024
Test Method:	EN 61000-4-2
Severity:	±2kV, ±4kV for Direct & Indirect Contact Discharge ±2kV, ±4kV, ±8kV for Air Discharge

#### Performance Criterion Requirement: **B**

Temperature:	22 °C
Humidity:	53 %
Atmospheric Pressure:	101 kPa
Test Date(s):	2011-10-21
Mode of Operation:	On mode

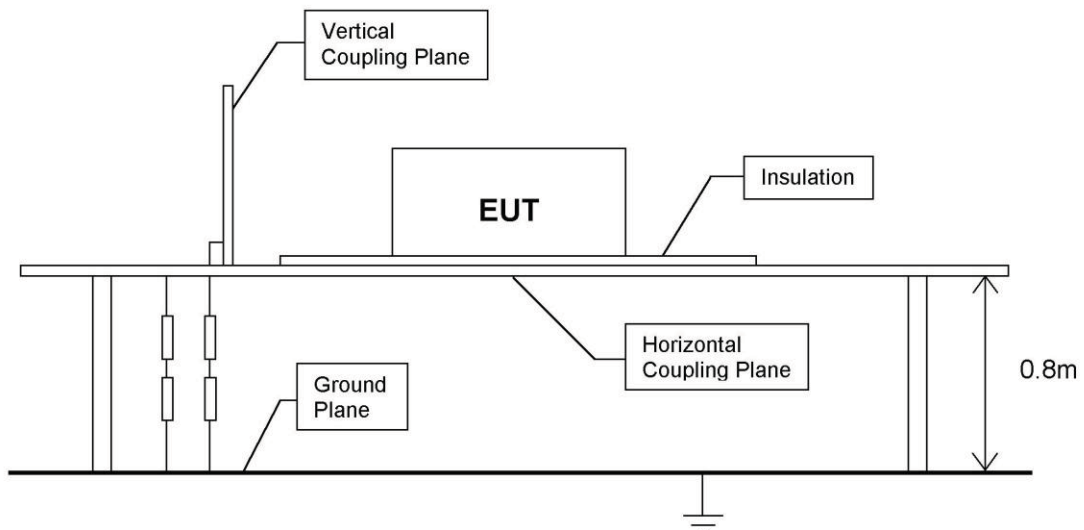
#### Test Method:

The test was performed in accordance with EN 61000-4-2.

#### Test Procedure:

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

#### Test Setup:



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## STC Test Report

**Date:** 2011-11-15

**Page 19 of 29**

**No.:** DM106337

**Severity Levels for Electrostatic Discharge:**

Level	Test Voltage Direct & Indirect Contact Discharge [kV]	Test Voltage Air Discharge [kV]
1	±2kV	±2kV
2	±4kV	±4kV
3	±6kV	±8kV
4	±8kV	±15kV

**Results of On mode: Pass**

Please refer to the following table for individual results.

Location	Discharge Method	Test Voltage	Individual Results	
			Pass	Failed
HCP [Horizontal Coupling Plane]	Indirect Contact	±2kV, ±4kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VCP [Vertical Coupling Plane]	Indirect Contact	±2kV, ±4kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screw	Direct Contact	±2kV, ±4kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Metal	Direct Contact	±2kV, ±4kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen	Air	±2kV, ±4kV, ±8kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gap	Air	±2kV, ±4kV, ±8kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

***EUT Grounding	<input checked="" type="checkbox"/> Grounded	<input type="checkbox"/> Ungrounded
------------------	--	-------------------------------------

Remarks:

\*\*\*For ungrounded EUT, the charge on the EUT shall be removed prior to each applied ESD pulse  
Calculated measurement uncertainty: 7.1%

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## STC Test Report

Date: 2011-11-15

No.: DM106337

Page 20 of 29

### 3.2.3 Radiated Immunity [80MHz to 1000MHz]

Test Requirement:	EN 55024
Test Method:	EN 61000-4-3
Severity:	Level 2 [3V/m]
Modulation:	80% 1kHz AM

**Performance Criterion Requirement:** A

Temperature:	23 °C
Humidity:	56 %

Test Date(s):	2011-09-10
---------------	------------

Mode of Operation:	On mode
--------------------	---------

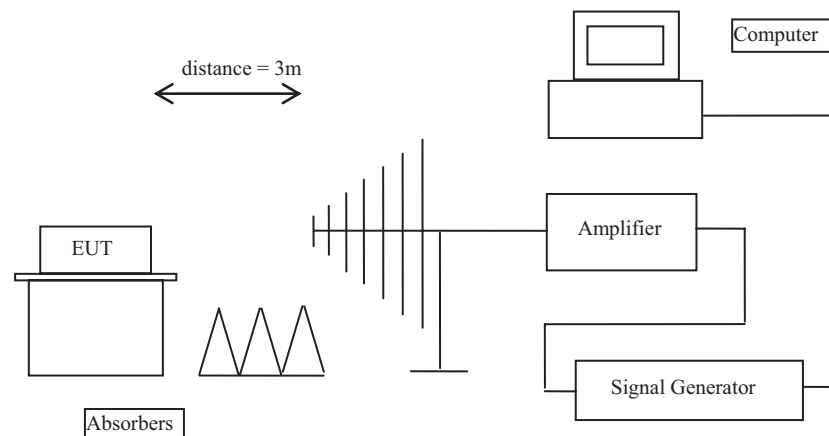
#### Test Method:

The test was performed in accordance with EN 61000-4-3.

#### Test Procedure:

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

#### Test Setup:



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## STC Test Report

Date: 2011-11-15

Page 21 of 29

No.: DM106337

### Severity Levels for Radiated Immunity:

Level	Field Strength [V/m]
1	1
2	3
3	10

### Results of On mode: Pass

Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time (s)	Sweep rate (%)	Individual Results	
						Pass	Failed
80-1000	0°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	90°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	180°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	270°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	0°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	90°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	180°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	270°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Remarks:

The dwell time at each frequency is according to the standard being applied and the basic standard  
Calculated measurement uncertainty: 1.74dB

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## STC Test Report

Date: 2011-11-15

No.: DM106337

Page 22 of 29

### 3.2.4 Electrical Fast Transients on AC Supply

Test Requirement:	EN 55024
Test Method:	EN 61000-4-4
Severity:	Level 2 on AC [ $\pm 1$ kV]

**Performance Criterion Requirement:** B

Temperature:	24 °C
Humidity:	53 %
Atmospheric Pressure:	101 kPa

Test Date(s): 2011-09-15

Mode of Operation: On mode

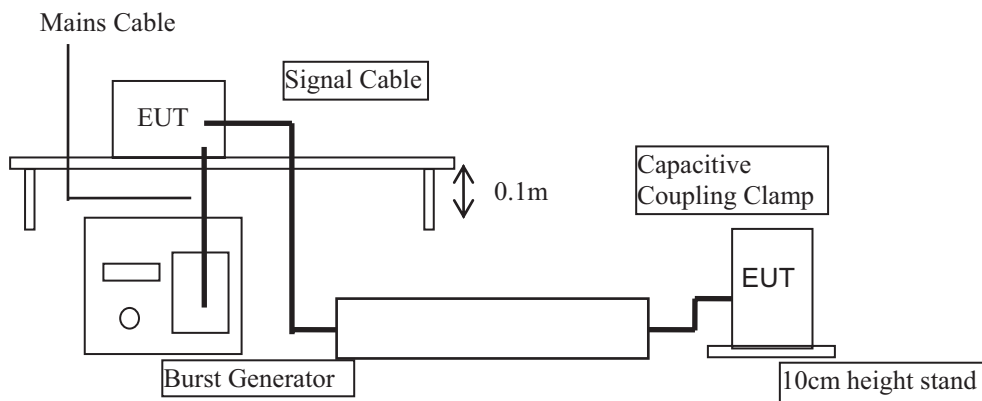
#### Test Method:

The test was performed in accordance with EN 61000-4-4.

#### Test Procedure:

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

#### Test Setup:



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## STC Test Report

Date: 2011-11-15

Page 23 of 29

No.: DM106337

### Severity Levels for Electrical Fast Transient:

Level	On power supply port, PE		On I/O (Input/Output) signal, data and control ports	
	Voltage peak [kV]	Repetition rate [kHz]	Voltage peak [kV]	Repetition rate [kHz]
1	0.5	5.0	0.25	5.0
2	1.0	5.0	0.50	5.0
3	2.0	5.0	1.00	5.0
4	4.0	2.5	2.00	5.0

### Results of On mode: Pass

Please refer to the following table for individual results.

Conductor	Polarity & Level	Duration/Polarity (s)	Individual Results	
			Pass	Failed
Live- Neutral- Earth	±1kV	120	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Remark:

Calculated measurement uncertainty: 7.1%

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## STC Test Report

Date: 2011-11-15  
No.: DM106337

Page 24 of 29

### 3.2.5 Surge Immunity on AC Supply

Test Requirement:	EN 55024
Test Method:	EN 61000-4-5
Severity:	Level 1 - $\pm 0.5\text{kV}$ (between live & neutral, between live & earth, between neutral & earth) Level 2 - $\pm 1.0\text{kV}$ (between live & neutral, between live & earth, between neutral & earth) Level 3 - $\pm 2.0\text{kV}$ (between live & earth, between neutral & earth)

**Performance Criterion Requirement: B**

Temperature:	24 °C
Humidity:	53 %
Atmospheric Pressure:	101 kPa

Test Date(s): 2011-09-10

Mode of Operation: On mode

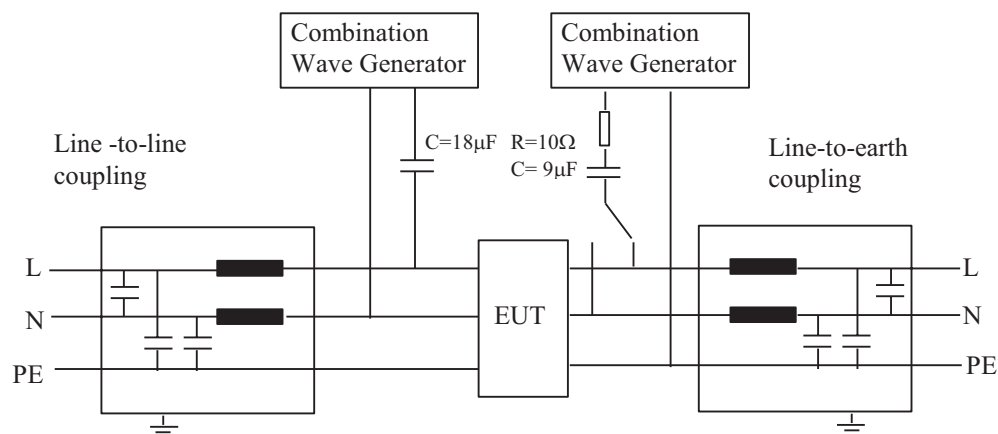
### Test Method:

The test was performed in accordance with EN 61000-4-5.

### Test Procedure:

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

### Test Setup:



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## STC Test Report

**Date:** 2011-11-15

**Page 25 of 29**

**No.:** DM106337

**Severity Levels for Surge Immunity:**

Level	Open-circuit test voltage $\pm 10\%$ kV
1	0.5
2	1.0
3	2.0
4	4.0

**Results of On mode: Pass**

Please refer to the following table for individual results

Conductor	Level & Polarity kV	No. of Surge	Phase Angle	Surge Interval (s)	Individual Results	
					Pass	Failed
Live - Neutral	$\pm 0.5, \pm 1.0$	5	0°	60s	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			90°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			180°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			270°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Live - Earth	$\pm 0.5, \pm 1.0, \pm 2.0$	5	0°	60s	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			90°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			180°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			270°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Neutral - Earth	$\pm 0.5, \pm 1.0, \pm 2.0$	5	0°	60s	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			90°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			180°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
			270°		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Remark:

Calculated measurement uncertainty: 7.1%

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## STC Test Report

Date: 2011-11-15

Page 26 of 29

No.: DM106337

### 3.2.6 Continuous RF Immunity on AC Supply (150kHz to 80MHz)

Test Requirement:	EN 55024
Test Method:	EN 61000-4-6
Severity:	Level 2 - 3Vrms(emf) with 80% 1kHz AM

**Performance Criterion Requirement:** A

Temperature:	25 °C
Humidity:	55 %
Atmospheric Pressure:	101 kPa

Test Date(s): 2011-09-15

Mode of Operation: On mode

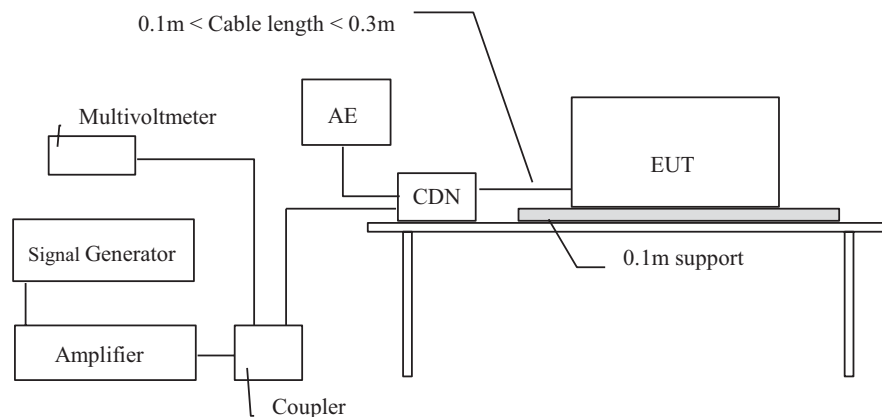
#### Test Method:

The test was performed in accordance with EN 61000-4-6.

#### Test Procedure:

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

#### Test Setup:



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## STC Test Report

Date: 2011-11-15

Page 27 of 29

No.: DM106337

### Severity Levels for Continuous RF Immunity:

Frequency range 150kHz - 80MHz		
Level	Voltage level (emf)	
	U <sub>o</sub> [dB(μV)]	U <sub>o</sub> [V]
1	120	1
2	130	3
3	140	10

### Results of On mode: Pass

Please refer to the following table for individual results.

Frequency (MHz)	Level (V/m)	Dwell Time (s)	Sweep rate (%)	Individual Results	
				Pass	Failed
150kHz – 80MHz	3.0Vrms	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Remark:

Calculated measurement uncertainty: 2.39dB

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## **STC Test Report**

**Date:** 2011-11-15

**Page 28 of 29**

**No.:** DM106337

### **3.2.7 Voltage Dips, Interruptions and Variations on AC Supply**

Test Requirement:	EN 55024
Test Method:	EN 61000-4-11
Severity:	[0, 70]% of $U_T$

<b>Performance Criterion Requirement:</b>	<b>B</b> for 0% of $U_T$ for 0.5 period <b>C</b> for other specifications
---	--

Temperature:	24 °C
Humidity:	53 %
Atmospheric Pressure:	101 kPa

Test Date(s):	2011-09-10
---------------	------------

Mode of Operation:	On mode
--------------------	---------

#### **Test Method:**

The test was performed in accordance with EN 61000-4-11.

#### **Test Procedure:**

The EUT is an industrial mobile computer, the test was conducted during the on mode function to simulate the normal usage specified by the manufacturer.

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## STC Test Report

Date: 2011-11-15

Page 29 of 29

No.: DM106337

### Severity Levels for voltage dips, short interruptions and voltage variations immunity:

Level	Voltage dip and short interruptions	Duration (period)
0	100	0.5
70	30	25
0	100	250

### Results of On mode: Pass

Please refer to the following table for individual results.

Phase	Test Level (% of $U_T$ )	Duration (period)	Individual Results	
			Pass	Failed
0° followed by 180°	0	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0° followed by 180°	70	25	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0° followed by 180°	0	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Remarks:

Calculated measurement uncertainty: 7.1% of tested voltage

$U_T$  - The nominal supply voltage

\*\*\*\*\*End of Test Report\*\*\*\*\*

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## **STC Test Report**

**Date: 2011-11-15**

**No.: DM106337**

**Page A1 of A2**

### **APPENDIX A**

#### **List of Measurement Equipment**

##### **Radiated Emission**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS 30	100314	2011.03.15
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2010.11.20
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A

##### **Conducted Emission**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD003	IMPULSEGRENZER PULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	100071	2011.03.15
EMD004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ESH3-Z5	100102	2011.03.15
EMD009	Passive Voltage Probe	ROHDE & SCHWARZ	ESH2-Z3	100020	2011.03.15
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2011.09.07
EMD041	TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	100261	2011.07.15
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A

##### **Harmonics/ Flicker**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD013	AC power source	SCHAFFNER	NSG1007	54964	2011.03.15
EMD014	Harmonic & flicker meter	SCHAFFNER	CCN1000	72104	2010.11.10
EMD054	LF Measuring System	EMC-PARTNER	HARMONICS1000	149	2011.07.15

##### **Electro Static Discharge**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD007	HIGH VOLTAGE OUTPUT $\pm 30KV$ MAX	KIKUSUI	KES4021	LG001717	2011.07.13
EMD034	Dehumidifier	Kawasima electrical appliance Co.,Ltd	DH-820H	N/A	N/A
EMD100	Thermohygrograph	SATO KEIRYOKI MFG.CO.,LTD.	7210-00	1633581	2011.07.13
EMD109	BAROGRAPH	SATO KEIRYOKI MFG.CO.,LTD.	NSII-BQ	567719	2010.12.31

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## **STC Test Report**

**Date: 2011-11-15**

**No.: DM106337**

**Page A2 of A2**

### **APPENDIX A**

#### **Radiated Field Immunity**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2011.03.15
EMD137	Signal Generator	ROHDE & SCHWARZ	SMB100A	1406600K02-104532-DF	2011.01.05
EMD060	Biconilog Antenna	ETS.LINDGREN	3142C	00060445	2010.10.16
EMD064	Power Amplifier	BONN ELEKTRONIK	BLWA0810-250/100D	066454A	2011.03.15

#### **EFT /Bust**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD053	Transient Immunity Test System	EMC-PARTNER	TRANSIENT2000	845	2011.07.15

#### **Surge Immunity**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD053	Transient Immunity Test System	EMC-PARTNER	TRANSIENT2000	845	2011.07.15

#### **Injected Current Immunity**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD023	DUAL DIRECTIONAL COUPLER	AMPLIFIER RESEARCH	DC2600A	308682	2011.03.15
EMD024	Amplifier	AMPLIFIER RESEARCH	75A250A	308682	2011.03.15
EMD025	Power meter	ROHDE & SCHWARZ	NRVD	100987	2010.12.20
EMD026	Signal Generator	ROHDE & SCHWARZ	SML01	102439	2011.03.15
EMD029	Coupling Decoupling Network	Fischer Custom Communications Inc	30W1000B	4022	2011.03.15

#### **Voltage Dip**

<b>EQP NO.</b>	<b>DESCRIPTION</b>	<b>MANUFACTURER</b>	<b>MODEL NO.</b>	<b>SERIAL NO.</b>	<b>LAST CAL</b>
EMD053	Transient Immunity Test System	EMC-PARTNER	TRANSIENT2000	845	2011.07.15

Remark:

N/A Not Applicable

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## **STC Test Report**

**Date: 2011-11-15**

**No.: DM106337**

**Page B1 of B11**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Front View of The Product**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B2 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Rear View of The Product**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B3 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Inner Circuit Top View**



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## **STC Test Report**

**Date: 2011-11-15**

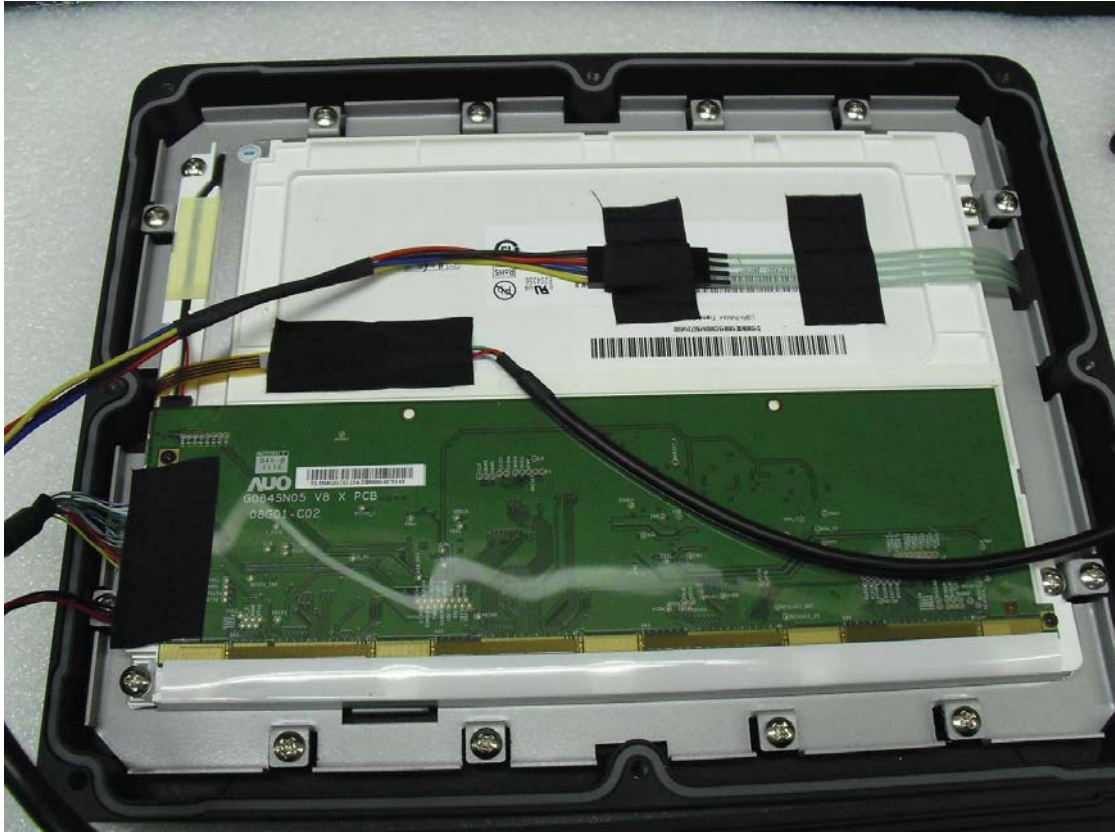
**Page B4 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Inner Circuit Bottom View**



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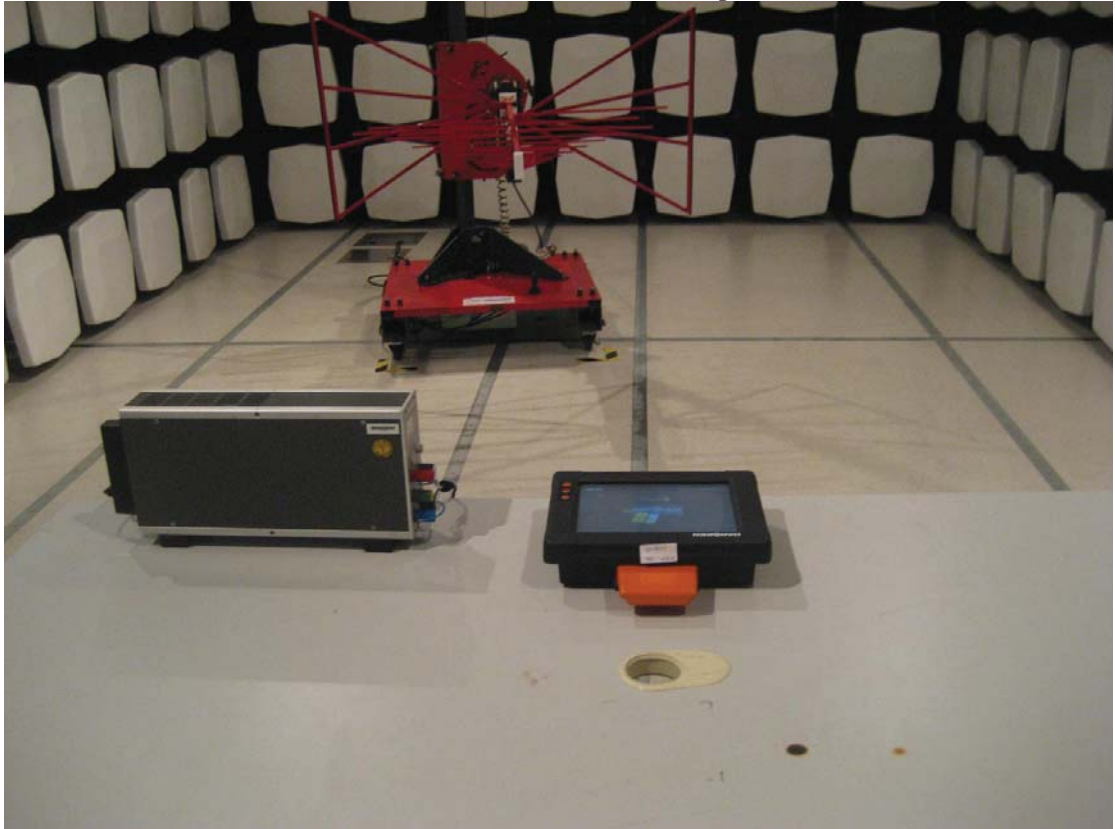
**Page B5 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Radiated Emission Test Set Up**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B6 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

##### **Conducted Emission Test Set Up**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B7 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

##### **Harmonic Emissions & Voltage Fluctuations Test Set Up**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B8 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Electro Static Discharge Test Set Up**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B9 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

**Radiated Immunity Test Set Up**



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## **STC Test Report**

**Date: 2011-11-15**

**Page B10 of B11**

**No.: DM106337**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

##### **Electrical Fast Transients, Surge Immunity, Voltage Dips Test Set Up**



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## **STC Test Report**

**Date: 2011-11-15**

**No.: DM106337**

**Page B11 of B11**

### **APPENDIX B**

#### **PHOTOGRAPH (S) OF PRODUCT**

##### **Continuous RF Immunity Test Set Up**



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