



<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>17034486 001</b>	<b>Auftrags-Nr.:</b> Order No.:	<b>164005637</b>	Seite 1 von 17 Page 1 of 17
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	N/A	<b>Auftragsdatum:</b> Order date:	01.08.2013	
<b>Auftraggeber:</b> Client:	Blue Ocean Innovation Limited, Rm.1813, Fo Tan Industrial Centre, 26-28 Au Pui Wan Street, Fotan, Hong Kong			
<b>Prüfgegenstand:</b> Test item:	JTECH PAGER			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	450304			
<b>Auftrags-Inhalt:</b> Order content:	FCC Certification and Verification			
<b>Prüfgrundlage:</b> Test specification:	FCC Part 15 Subpart B (ANSI C63.4: 2003) ICES-003 Issue 5 February 2012 (CAN/CSA-CEI/IEC CISPR 22-02) RSS-Gen Issue 3 December 2010			
<b>Wareneingangsdatum:</b> Date of receipt:	2013-08-01			
<b>Prüfmuster-Nr.:</b> Test sample No.:	N/A			
<b>Prüfzeitraum:</b> Testing period:	2013-08-12 to 2013-08-13			
<b>Ort der Prüfung:</b> Place of testing:	Shenzhen Accurate Technology Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von / tested by:</b> 13.09.2013  Datum Name / Stellung Date Name / Position		<b>kontrolliert von / reviewed by:</b> 25.09.2013  Datum Name / Stellung Date Name / Position		
Unterschrift Signature		Unterschrift Signature		
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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## TEST SUMMARY

### **5.1.1 CONDUCTED EMISSION**

*RESULT: Passed*

### **5.2.1 RADIATED EMISSION**

*RESULT: Passed*

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## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

## 2. Test Sites

### 2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Conducted Emission</b>				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Artificial Mains Network	Schwarzbeck	NLSK8126	8126431	2014-01-07
<b>Radiated Emission</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2014-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	2014-01-07

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are  $\pm 3\text{dB}$ .

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. located at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is JTECH pager, which are UHF receivers work at 467.8MHz. The EUT is used to call customers.

For more information refer to the Instruction Manual & Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 2: Rating of EUT**

Kind of Equipment	JTECH PAGER
Type Designation	450304
FCC ID	VU3-RECHAR304

**Table 3: Technical Specification of EUT**

Technical Specification	Value
Operating Frequency band	467.8MHz
Operation Voltage	DC2.4V (via built-in rechargeable battery)
Modulation	FSK
Antenna Type	Internal Antenna, Non-User Replaceable

#### 3.3 Independent Operation Modes

The basic operation modes are:

- A. Receiving
- B. Charging (via external specified charger)
- C. Stand by
- D. Off

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.5 Submitted Documents**

- |                        |                    |
|------------------------|--------------------|
| - Circuit Diagram      | - PCB Layout       |
| - Construction Drawing | - Bill of Material |
| - User's Manual        | - Label            |



## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

### 4.3 Special Accessories and Auxiliary Equipment

Item Description	Model No.	Manufacturer
AC/DC Adapter	TR36A-13 03A03	CINCON Electronics Co., Ltd.
Battery Plate	--	Ocean Springs Metal Manufacture Limited.

Note: the adapter is only for testing, not marketed with EUT.

### 4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

(Test diagrams removed? Pls. still put in. Also it will be much helpful to Rene is you can draw a system diagram, i.e. adaptor + charging docking + EUT.)

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

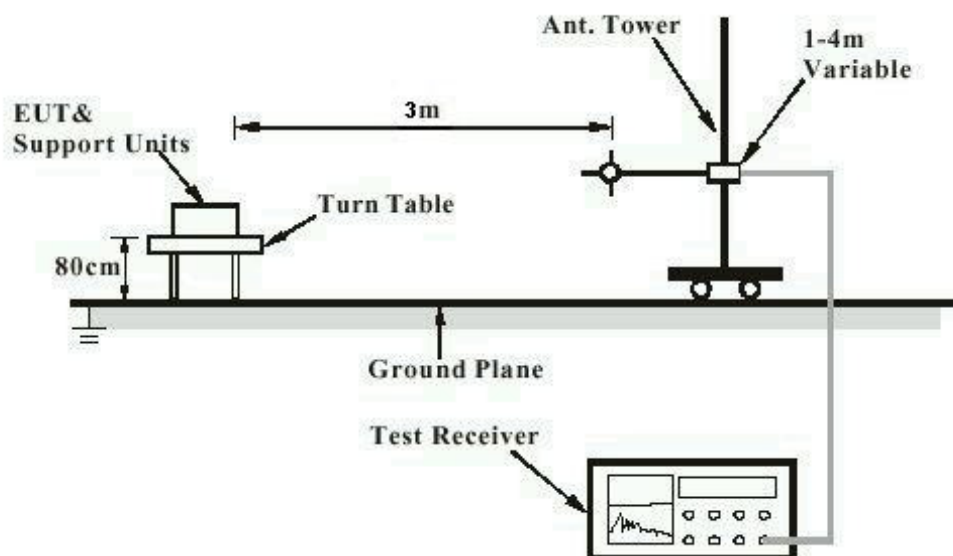
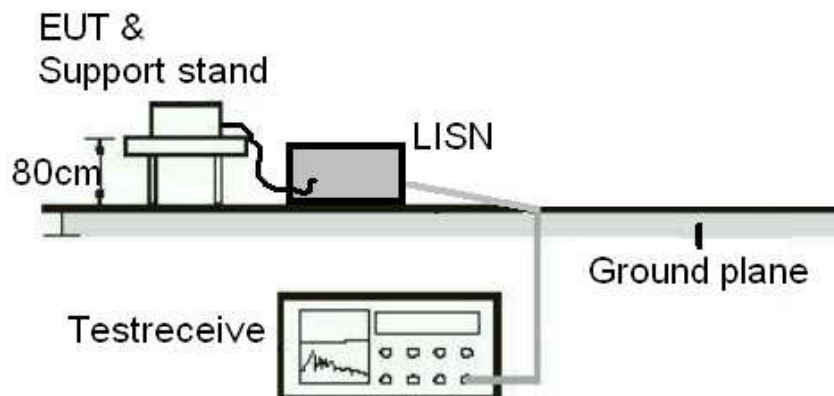


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



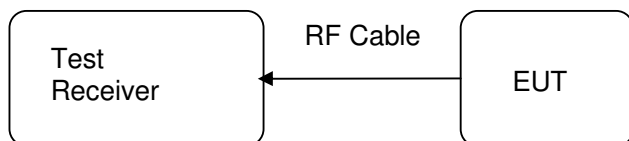
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*Test Report No.*

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**Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement**



## 5. Test Results EMISSION

### 5.1 Emission in the Frequency Range up to 30 MHz

#### 5.1.1 Conducted Emission

**RESULT:****Passed**

Date of testing	:	2013-08-12
Test specification	:	FCC Part 15 Per Section 15.107(a) Clause 5 of ICES-003 RSS-Gen 7.2.4
Frequency range	:	0.15 – 30MHz
Classification	:	Class B
Test procedure	:	ANSI C63.4: 2003 CAN/CSA-CEI/IEC CISPR 22-02 Table 4 of RSS-GEN
Deviations from standard test procedure	:	None
Kind of test site	:	Shielded room

**Test setup**

Input Voltage	:	AC120V 60Hz to AC/DC Adapter
Operation mode	:	B
Artificial hand	:	Not applied
Earthing	:	Not connected

Test data refer to Appendix 1.

## 5.2 Emission in the Frequency Range above 30 MHz

### 5.2.1 Radiated Emission

**RESULT:****Passed**

Date of testing	:	2013-08-13
Test standard	:	FCC Part 15 Per Section 15.109(a) Clause 5 of ICES-003 RSS-Gen 7.1.4
Frequency range	:	30 - 6000MHz
Classification	:	Class B
Test procedure	:	ANSI C63.4: 2003 CAN/CSA-CEI/IEC CISPR 22-02 RSS-Gen Table 5
Deviation from standard test procedure	:	None
Kind of test site	:	3m Semi-Anechoic Chamber

**Test setup**

Input Voltage	:	AC120V 60Hz to AC/DC Adapter
Operation mode	:	A, B
Earthing	:	Not connected

**Note:**

For IC requirement, mode A (receiving mode) was tested according to RSS-Gen Issue 3, while mode B (charging mode) was tested according to ICES-003 Issue 4.

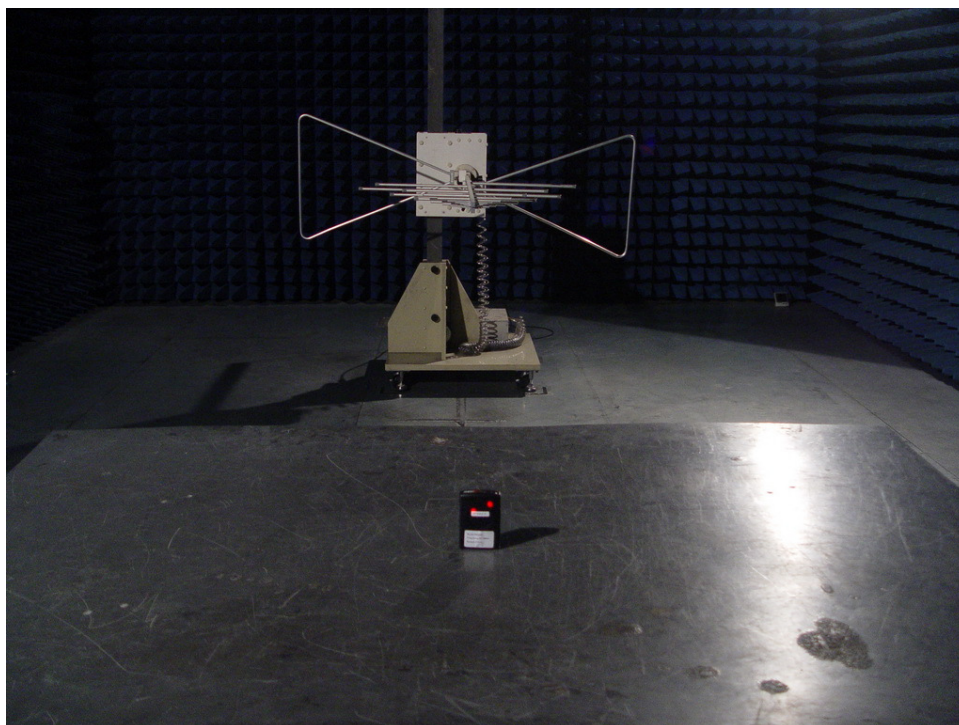
Test data refer to Appendix 1.

## 6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission

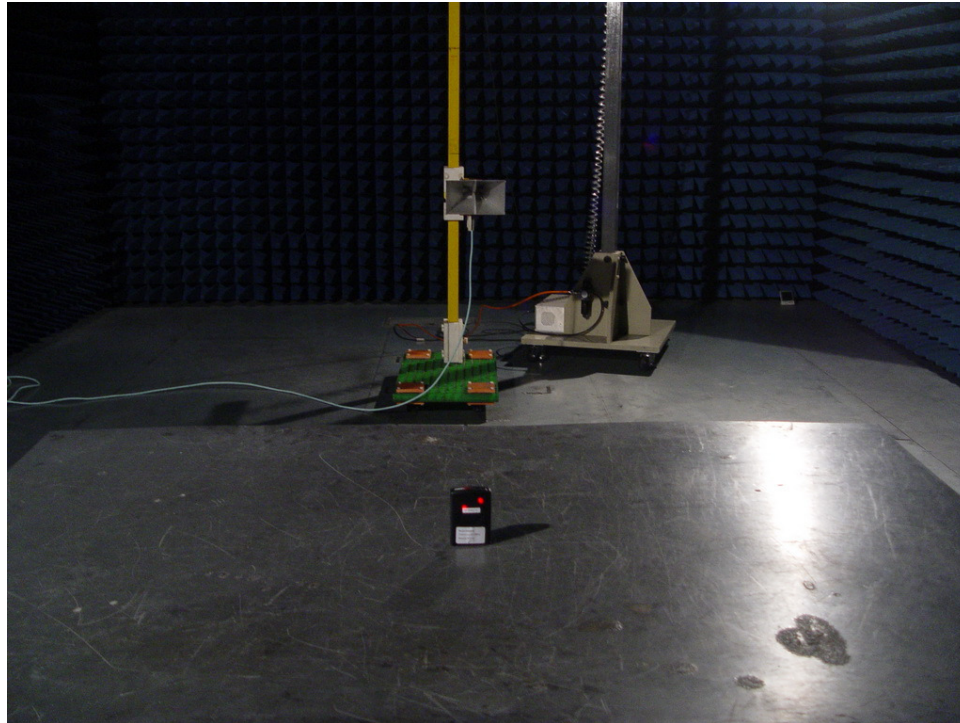


Photograph 2: Set-up for Radiated Emission, below 1GHz, mode A

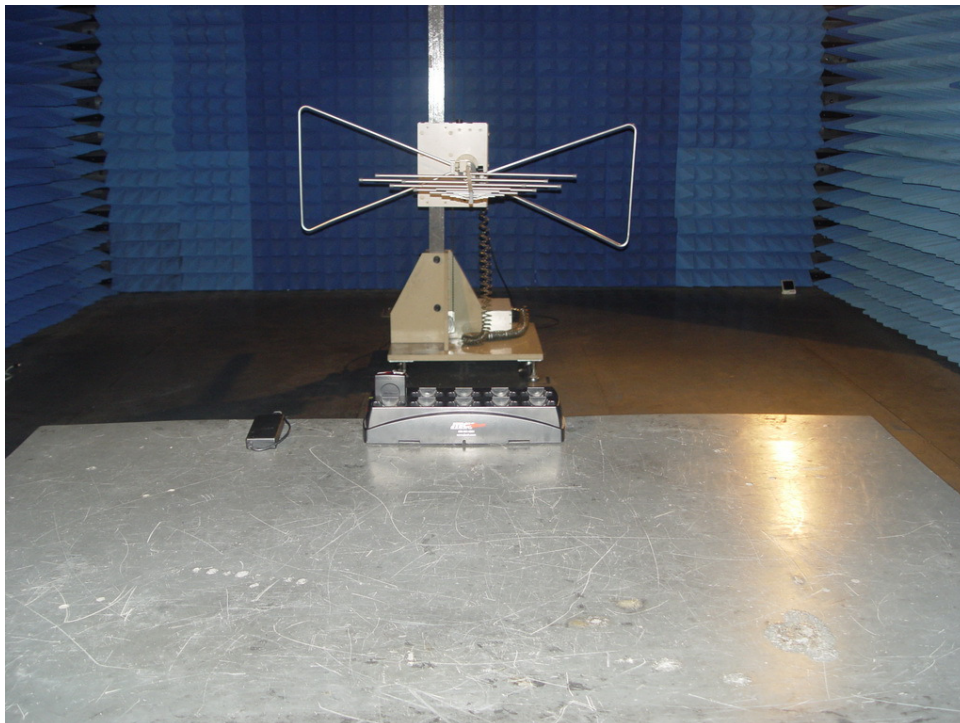




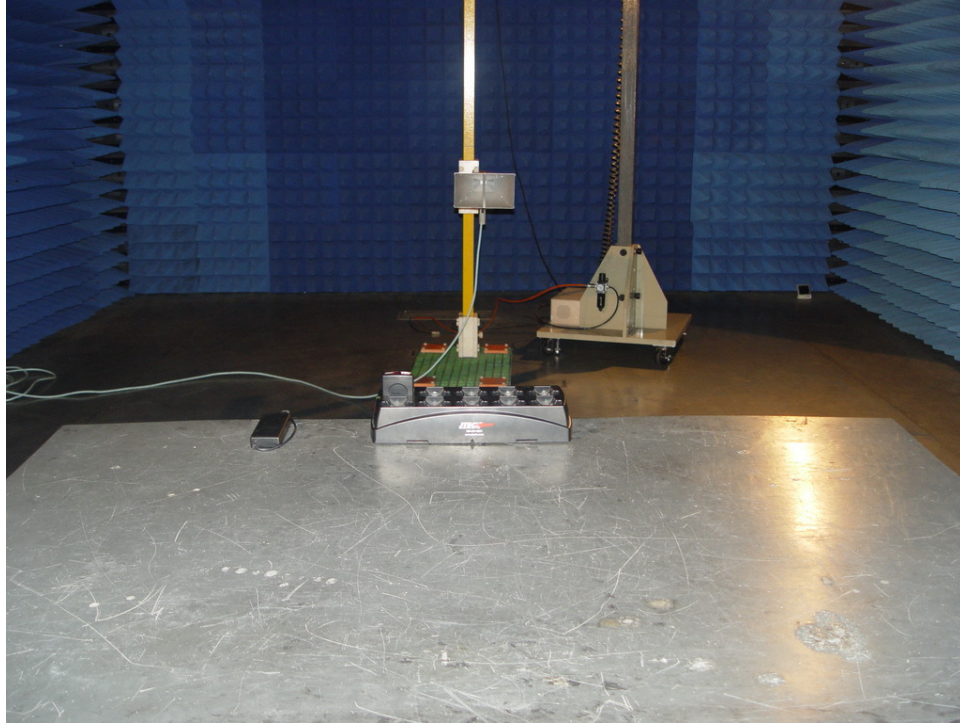
**Photograph 3: Set-up for Radiated Emission, above 1GHz, mode A**



**Photograph 4: Set-up for Radiated Emission, below 1GHz, mode B**



**Photograph 5: Set-up for Radiated Emission, above 1GHz, mode B**





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**Figure 1: Test figure of conducted emissions, mode B, line live**

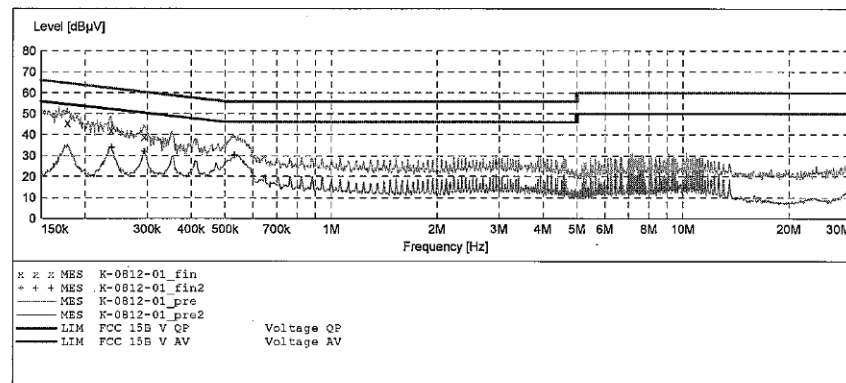
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CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: 450304  
Manufacturer: Blue Ocean Innovation  
Operating Condition: Charging  
Test Site: 1#Shielding Room  
Operator: LAN  
Test Specification: L 120V/60Hz  
Comment: Mains Port  
Start of Test: 8/12/2013 / 10:43:34AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD\_VTERM2 1.70  
Start Stop Step Detector Meas. IF Transducer  
Frequency Frequency Width Time Bandw.  
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
Average



MEASUREMENT RESULT: "K-0812-01\_fin"

8/12/2013 10:46AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.178091	45.70	11.6	65	18.9	QP	L1	GND
0.237393	42.20	11.9	62	20.0	QP	L1	GND
0.294502	39.20	12.1	60	21.2	QP	L1	GND

MEASUREMENT RESULT: "K-0812-01\_fin2"

8/12/2013 10:46AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.237393	33.80	11.9	52	18.4	AV	L1	GND
0.294502	31.90	12.1	50	18.5	AV	L1	GND
0.531714	30.20	12.6	46	15.8	AV	L1	GND

**Figure 2: Test figure of conducted emissions, mode B, line neutral**

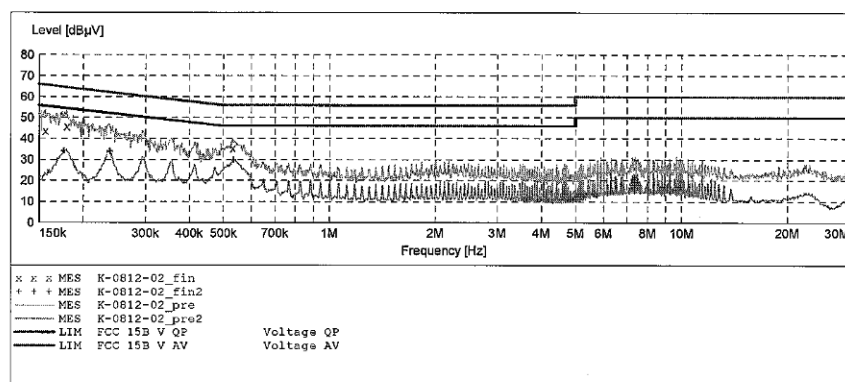
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: 450304  
Manufacturer: Blue Ocean Innovation  
Operating Condition: Charging  
Test Site: 1#Shielding Room  
Operator: LAN  
Test Specification: N 120V/60Hz  
Comment: Mains Port  
Start of Test: 8/12/2013 / 10:47:10AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD\_VTERM2 1.70  
Start Stop Step Detector Meas. IF Transducer  
Frequency Frequency Width Time Bandw.  
150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
Average



MEASUREMENT RESULT: "K-0812-02\_fin"

8/12/2013 10:49AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156109	43.60	11.5	66	22.1	QP	N	GND
0.179518	45.90	11.6	65	18.6	QP	N	GND
0.531714	35.30	12.6	56	20.7	QP	N	GND

MEASUREMENT RESULT: "K-0812-02\_fin2"

8/12/2013 10:49AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.175970	34.20	11.6	55	20.5	AV	N	GND
0.237393	33.80	11.9	52	18.4	AV	N	GND
0.533841	29.70	12.6	46	16.3	AV	N	GND

**Figure 3: Test figure of Radiated emissions, mode A, Horizontal polarity  
(30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PYH #2535

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: A

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Horizontal

Power Source: DC 2.4V

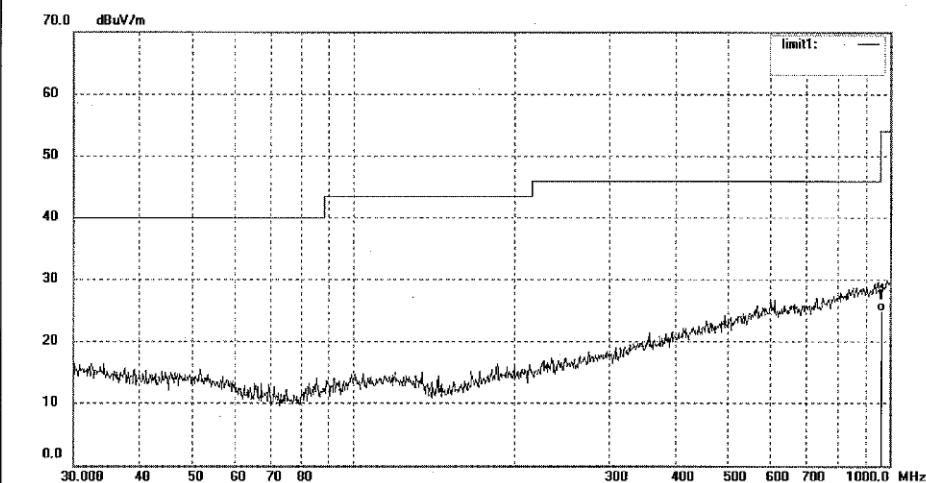
Date: 13/08/12/

Time: 7/24/31

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	960.0000	22.51	2.37	24.88	46.00	-21.12	QP			

**Figure 4: Test figure of Radiated emissions, mode A, Vertical polarity (30MHz – 1GHz)**



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #2536

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 °C / 48 %

EUT:

Mode: A

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Vertical

Power Source: DC 2.4V

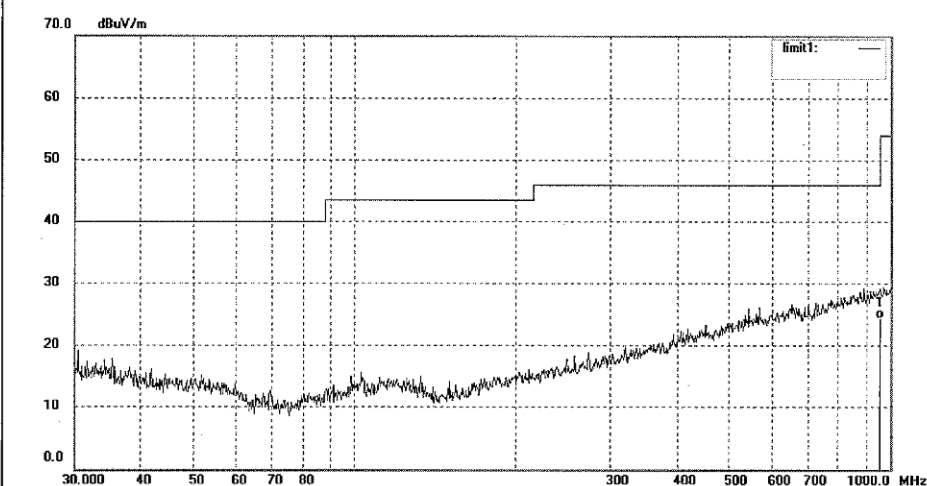
Date: 13/08/12/

Time: 7/33/16

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	960.0000	22.13	2.37	24.50	46.00	-21.50	QP			

**Figure 5: Test figure of Radiated emissions, mode A, Horizontal polarity (1GHz – 6GHz)**



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #2541

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: A

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Horizontal

Power Source: DC 2.4V

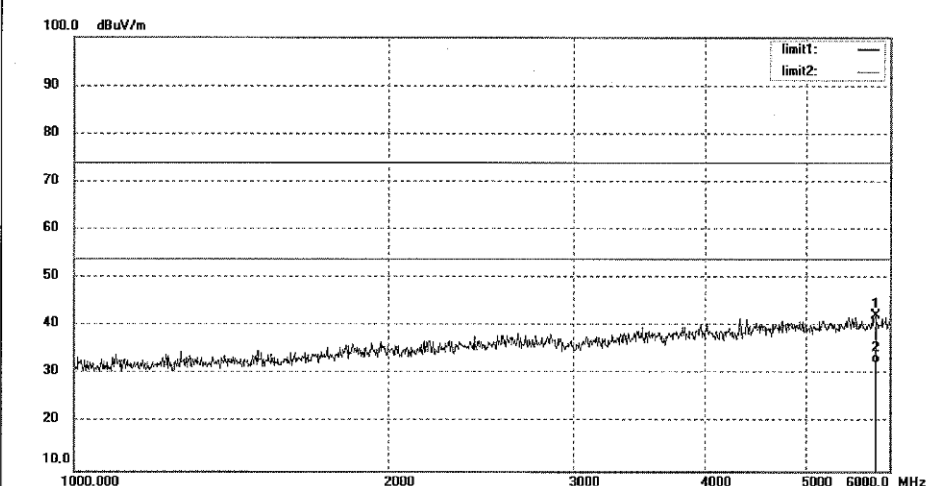
Date: 13/08/12/

Time: 8/14/40

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5818.926	40.25	1.97	42.22	74.00	-31.78	peak			
2	5818.926	30.32	1.97	32.29	54.00	-21.71	AVG			

**Figure 6: Test figure of Radiated emissions, mode A, Vertical polarity (1GHz – 6GHz)**



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #2542

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: A

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Vertical

Power Source: DC 2.4V

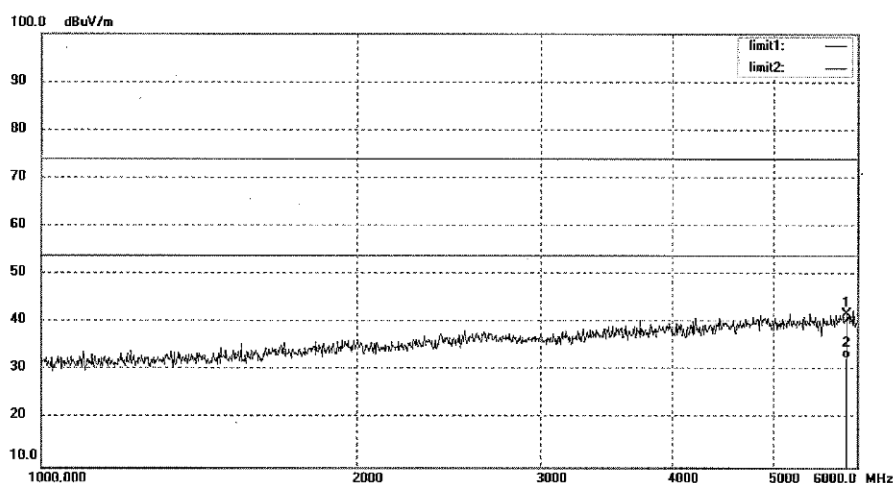
Date: 13/08/12/

Time: 8/22/58

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5871.608	39.80	1.95	41.75	74.00	-32.25	peak			
2	5871.608	30.73	1.95	32.68	54.00	-21.32	AVG			



**Figure 7: Test figure of Radiated emissions, mode B, Horizontal polarity  
(30MHz – 1GHz)**



**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #2531

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: B

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Horizontal

Power Source: AC 120V/60Hz

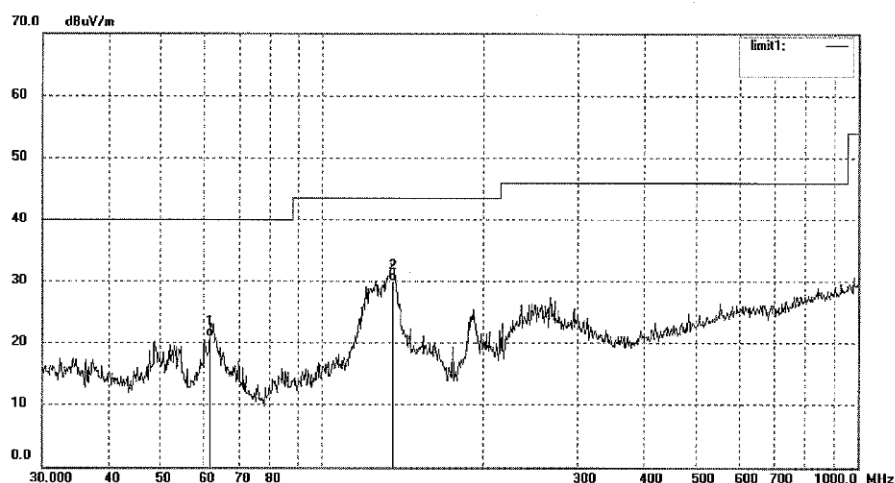
Date: 13/08/12/

Time: 6/50/30

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	62.2490	35.62	-14.74	20.88	40.00	-19.12	QP			
2	136.4497	44.38	-14.41	29.97	43.50	-13.53	QP			

**Figure 8: Test figure of Radiated emissions, mode B, Vertical polarity  
(30MHz – 1GHz)**



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #2532

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: B

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Vertical

Power Source: AC 120V/60Hz

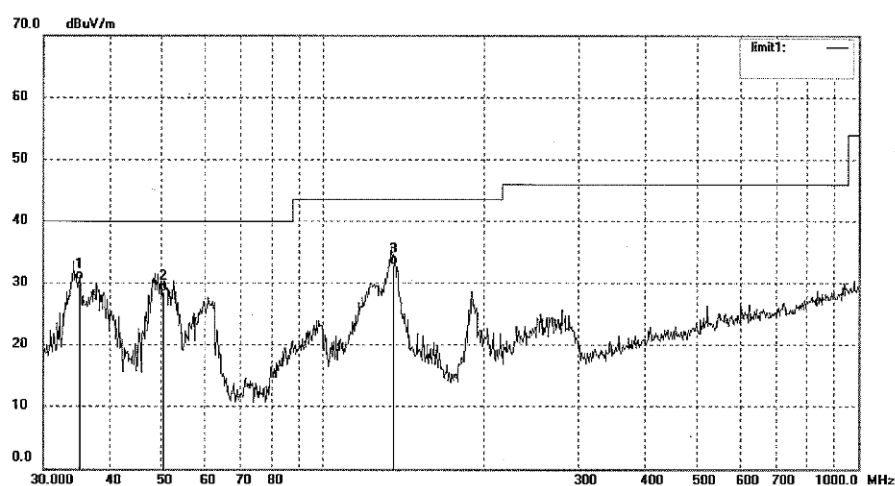
Date: 13/08/12/

Time: 7/00/19

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.8771	40.89	-10.41	30.48	40.00	-9.52	QP			
2	50.5420	41.23	-12.64	28.59	40.00	-11.41	QP			
3	136.2511	47.29	-14.38	32.91	43.50	-10.59	QP			

**Figure 9: Test figure of Radiated emissions, mode B, Horizontal polarity (1GHz – 6GHz)**



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Site: 2# Chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: PYH #2544

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: B

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Horizontal

Power Source: AC 120V/60Hz

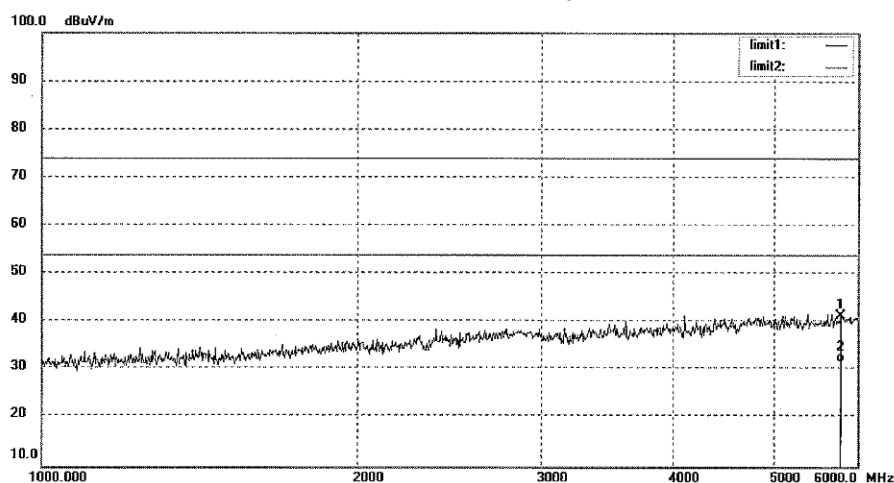
Date: 13/08/12/

Time: 8/39/26

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5787.544	39.45	1.87	41.32	74.00	-32.68	peak			
2	5787.544	29.95	1.87	31.82	54.00	-22.18	AVG			

**Figure 10: Test figure of Radiated emissions, mode B, Vertical polarity  
(1GHz – 6GHz)**



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Job No.: PYH #2543

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT:

Mode: B

Model: 450304

Manufacturer: Blue Ocean Innovation

Polarization: Vertical

Power Source: AC 120V/60Hz

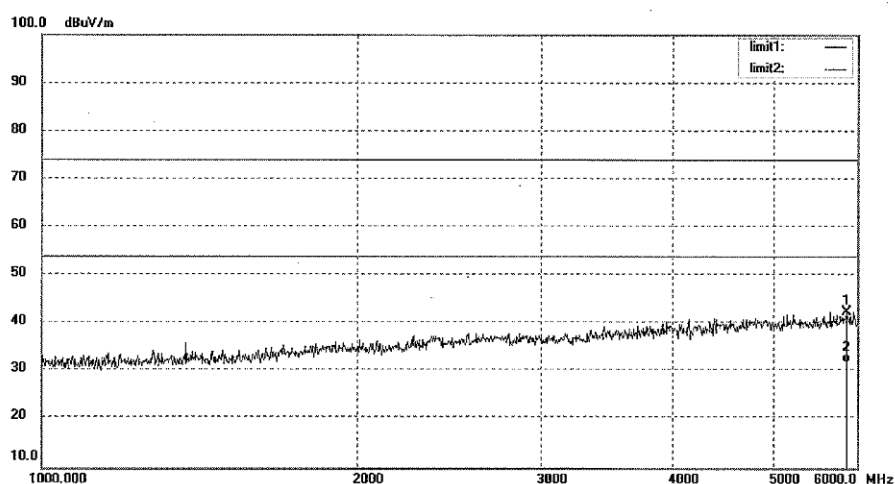
Date: 13/08/12/

Time: 8/30/21

Engineer Signature: PEI

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5871.608	40.53	1.95	42.48	74.00	-31.52	peak			
2	5871.608	30.07	1.95	32.02	54.00	-21.98	AVG			