



EMC TEST REPORT

For

Shenzhen Siyoteam Technology Co., Ltd

Product Name: DESKTOP CHARGER

Model No.: A8101

Prepared for : Shenzhen Siyoteam Technology Co., Ltd
Address : Room 2003B, SEG Plaza, huaqiang North Road, Futian District,
shenzhen, PR.China

Prepared by : SHENZHEN POCE TECHNOLOGY CO., LTD.
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Report No. : POCE17110612KRE
Date of Receiver : Nov. 06, 2017
Number of tested samples : 1
Serial number : Prototype
Date of Test : Nov. 06, 2017 – Nov. 13, 2017
Date of Report : Nov. 13, 2017

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen POCE Technology Co., Ltd

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : DESKTOP CHARGER

Trade Name : TEGUAR

Model : A8101

Supplementary Model : N/A

Test Voltage : AC 230V/50Hz

Rating : Input: AC 100240V, 50/60Hz
Output: DC 3.6~ 6V, 3A
Output: DC 6 ~ 9V, 2A
Output: DC 9 ~ 12V, 1.5A
AUTO Output: 5V, 10A
TOTAL Power: 50W max

Applicant : Shenzhen Siyoteam Technology Co., Ltd

Address : Room 2003B, SEG Plaza, huaqiang North Road, Futian District, shenzhen, PR.China


Manufacturer : Denice Electronic Technology Co. Ltd.


Address : Jiangangling Industrial Park Yangchun City Guangdong China

Test Standards : EN 55032:2015
EN 55024:2010+A1:2015
EN61000-3-2:2014
EN61000-3-3:2013

Date of Receiver : Nov. 06, 2017

Date of Test : Nov. 06, 2017–Nov. 13, 2017

Test Engineer : 

Reviewed By: 

1.2. Test Standards

- √ Indicates that the test is applicable
 × Indicates that the test is not applicable

| Standard | Test Items | Status |
|-------------------|--|--------|
| EN 55032:2015 | Disturbance Voltage at The Mains Terminals (150KHz To 30MHz) | √ |
| | Radiated Disturbances (30MHz To 1000MHz) | √ |
| EN61000-3-2:2014 | Harmonic Current | × |
| EN61000-3-3:2013 | Voltage Fluctuations | √ |
| EN61000-4-2:2009 | Electrostatic discharge Immunity | √ |
| EN61000-4-3:2006 | Radiated Susceptibility (80MHz to 1GHz) | √ |
| EN61000-4-4:2012 | Electrostatic Fast Transient/Burst Immunity | √ |
| EN61000-4-5:2014 | Surge Immunity | √ |
| EN61000-4-6:2014 | Conducted Susceptibility (150KHz to 80MHz) | √ |
| EN61000-4-8:2010 | Power Frequency Magnetic Field Immunity (50/60Hz) | √ |
| EN61000-4-11:2004 | Voltage Dips Short Interruptions Immunity Tests | √ |

1.3. Test Methodology

All measurements contained in this report were conducted with CISPR 16-1, radio disturbance and immunity measuring apparatus, and CISPR16-2, Method of measurement of disturbances and immunity.

All measurement required was performed at laboratory of Shenzhen POCE Technology Co., Ltd., at H Building, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China

1.4. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 222278

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 222278.

The facility also complies with the radiated and AC line conducted test site criteria set forth in CISPR 16-1, CISPR16-2.

2. MEASURING DEVICE AND TEST EQUIPMENT

2.1. For Power Line Conducted Emission

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-------------------|-----------------|---|---------------------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESPI TEST RECEIVER | ID:1164.6607K03-102109-MH | Dec. 28, 2016 |
| 2. | L.I.S.N | Rohde & Schwarz | ESH3-Z5.831.5518.52 | 9561-G071 | Dec. 28, 2016 |
| 3. | 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | N/A |
| 4. | Pulse Limiter | SCHWARZ BECK | VTSD 9561-F Pulse limiter 10dB Ateennator | 561-G071 | Dec. 28, 2016 |
| 5. | Cable | SCHWARZ BECK | N/A | N/A | Dec. 28, 2016 |

2.2. For Radiated Emission Measurement

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-------------------|------------------------|--------------------|---------------------------|---------------|
| 1. | Test Receiver | Rohde & Schwarz | ESPI TEST RECEIVER | ID:1164.6607K03-102109-MH | Dec. 28, 2016 |
| 2. | Bilog Antenna | Sunol Sciences | Model JB6 Antenna | A090414 | Dec. 28, 2016 |
| 3. | 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | N/A |
| 4. | control | Positioning Controller | Model MF-7802 | MF780208362 | Dec. 28, 2016 |
| 5. | Cable | SCHWARZ BECK | N/A | N/A | Dec. 28, 2016 |
| 6. | Cable | SCHWARZ BECK | N/A | N/A | Dec. 28, 2016 |

2.3. For Harmonic Current / Flicker Measurement

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-----------------------------|--------------|-----------|----------------|---------------|
| 1. | Coupling decoupling network | SCHAFFNER | M016 | 20812 | Dec. 28, 2016 |
| 2. | PC | N/A | P2L97 | N/A | Dec. 28, 2016 |

2.4. For Electrostatic Discharge Immunity Test

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|------------|--------------|-----------|----------------|---------------|
| 1. | ESD Tester | Prima | ESD61002A | 144305 | Dec. 28, 2016 |

2.5. For RF Strength Susceptibility Test

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-----------|--------------|-----------|----------------|---------------|
| 1. | Signal | HP | 8648A | 3625U00573 | Dec. 28, 2016 |

| | Generator | | | | |
|----|-------------------------|------|-------------|-----------|---------------|
| 2. | Amplifier | AR | 500A100 | 17034 | NCR |
| 3. | Amplifier | AR | 100W/1000M1 | 17028 | NCR |
| 4. | Isotropic Field Monitor | AR | FM2000 | 16829 | NCR |
| 5. | Isotropic Field Probe | AR | FP2000 | 16755 | Dec. 28, 2016 |
| 6. | Biconic Antenna | EMCO | 3108 | 9507-2534 | NCR |
| 7. | Log-periodic Antenna | AR | AT1080 | 16812 | NCR |
| 8. | PC | N/A | 486DX2 | N/A | N/A |

2.6. For Electrical Fast Transient /Burst Immunity Test

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|----------------|--------------|-----------|----------------|---------------|
| 1. | Burst Tester | HTEC | HEFT 51 | 144303 | Dec. 28, 2016 |
| 2. | Coupling Clamp | HTEC | IP-4A | 147147 | Dec. 28, 2016 |

2.7. For Surge Immunity Test

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|--------------|--------------|-----------|----------------|---------------|
| 1. | Surge Tester | HTEC | HCWG | 144302 | Dec. 28, 2016 |

2.8. For Injected Current Susceptibility Test

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-----------------|--------------|-------------|----------------|---------------|
| 1. | Simulator | EMTEST | CWS500C | 0900-12 | Dec. 28, 2016 |
| 2. | CDN | EMTEST | CDN-M2 | 5100100100 | Dec. 28, 2016 |
| 3. | CDN | EMTEST | CDN-M3 | 0900-11 | Dec. 28, 2016 |
| 4. | Injection Clamp | EMTEST | F-2031-23MM | 368 | Dec. 28, 2016 |
| 5. | Attenuator | EMTEST | ATT6 | 0010222A | Dec. 28, 2016 |

2.9. For Magnetic Field Immunity Test

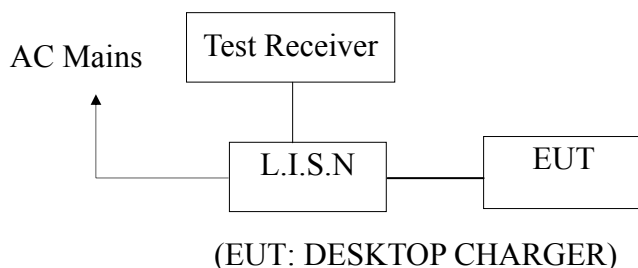
| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-----------------------|--------------|-----------|----------------|---------------|
| 1. | Magnetic Field Tester | HTEC | HPFM T | 144301 | Dec. 28, 2016 |

2.10. For Voltage Dips and Interruptions Test

| Item | Equipment | Manufacturer | Model No. | Factory Number | Last Cal. |
|------|-------------|--------------|-----------|----------------|---------------|
| 1. | Dips Tester | HTEC | HPFS | 144304 | Dec. 28, 2016 |

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Block Diagram of Test Setup



3.2. Measuring Standard

EN 55032:2015

Power Line Conducted Emission Limits (Class B)

| Frequency (MHz) | Limit (dB μ V) | |
|--------------------|--------------------|---------------|
| | Quasi-Peak Level | Average Level |
| 0.15 ~ 0.50 | 66.0 ~ 56.0 * | 56.0 ~ 46.0 * |
| 0.50 ~ 5.00 | 56.0 | 46.0 |
| 5.00 ~ 30.00 | 60.0 | 50.0 |

NOTE1-The lower limit shall apply at the transition frequencies.
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.3. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet EN 55032 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the EN 55032 regulations during conducted emission measurement.

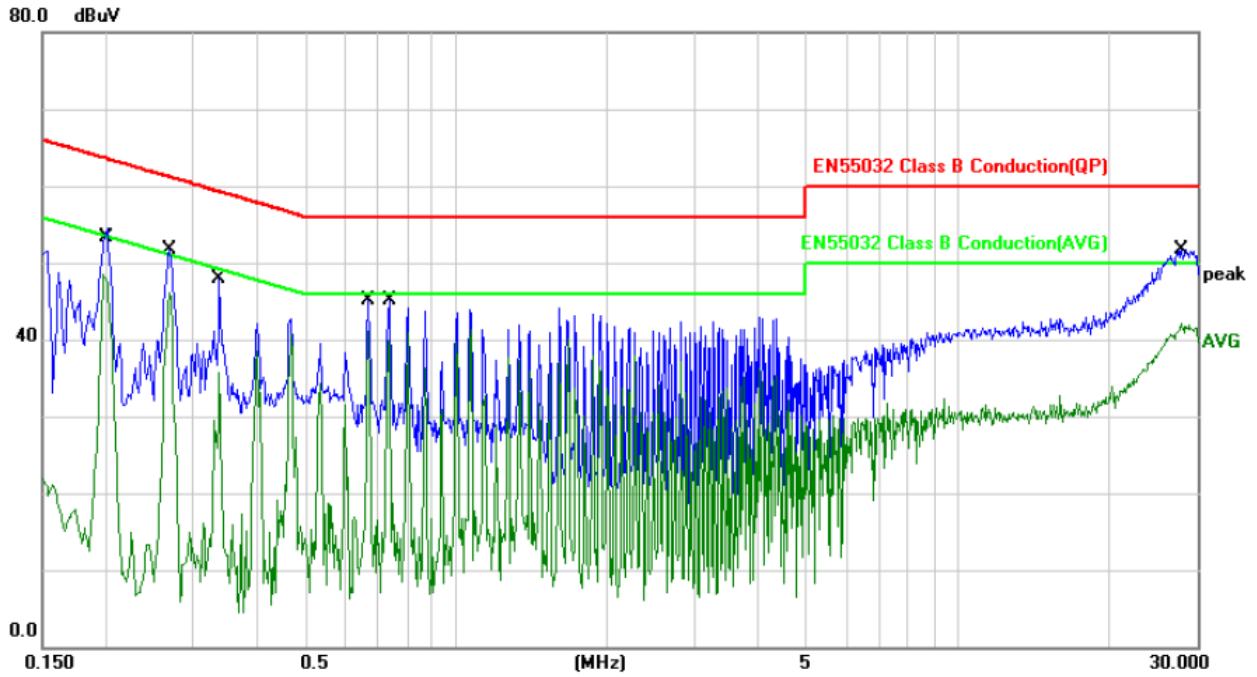
The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9KHz in 150KHz~30MHz and 200Hz in 9KHz~150KHz.

The frequency range from 150kHz to 30MHz is investigated.

Conduction Uncertainty: $U_c = \pm 2.72$ dB

Conducted Emission Test Data

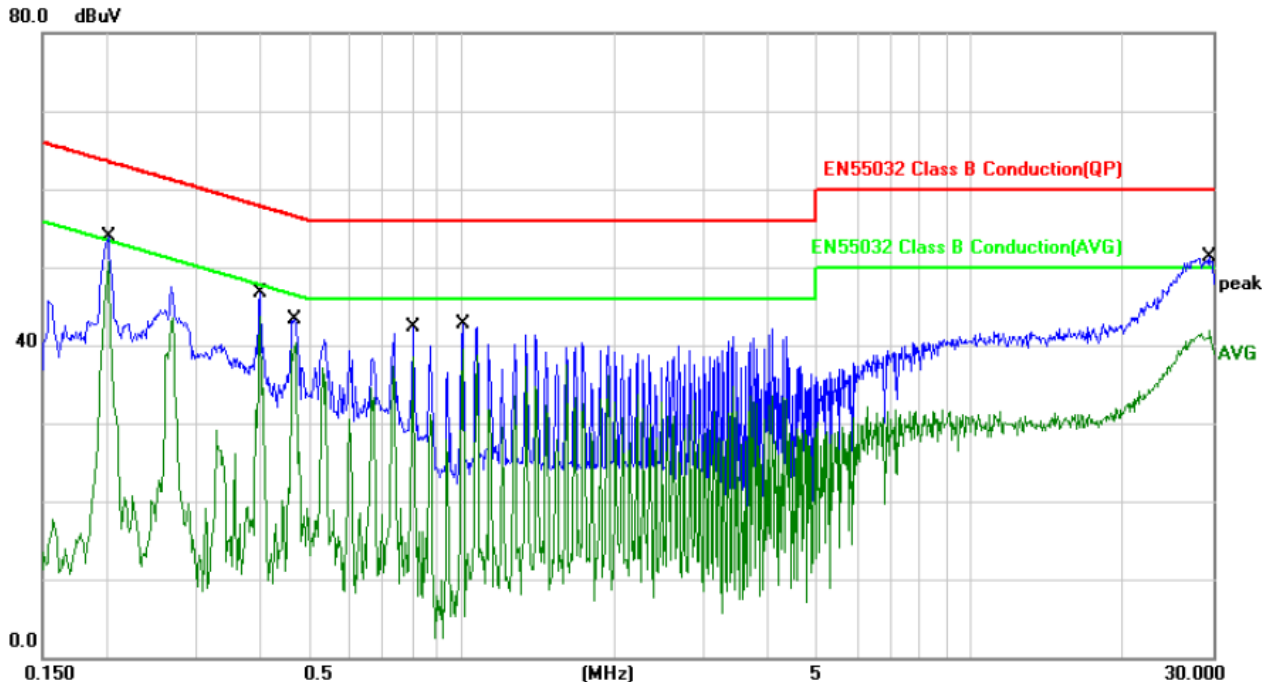
| | | | |
|---------------|-------------------|--------------|-----------|
| EUT | : DESKTOP CHARGER | Temperature: | 20°C |
| M/N | : A8101 | Humidity : | 50% |
| Test Voltage | : AC 230V/50Hz | Test Mode : | Full load |
| Test Engineer | : Bill | Phase : | L-Line |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1980 | 54.30 | 0.19 | 54.49 | 63.69 | -9.20 | QP | |
| 2 | | 0.1980 | 48.26 | 0.19 | 48.45 | 53.69 | -5.24 | AVG | |
| 3 | | 0.2700 | 51.45 | 0.25 | 51.70 | 61.12 | -9.42 | QP | |
| 4 | | 0.2700 | 45.76 | 0.25 | 46.01 | 51.12 | -5.11 | AVG | |
| 5 | | 0.3379 | 47.57 | 0.32 | 47.89 | 59.25 | -11.36 | QP | |
| 6 | | 0.3379 | 35.28 | 0.32 | 35.60 | 49.25 | -13.65 | AVG | |
| 7 | | 0.6700 | 44.87 | 0.33 | 45.20 | 56.00 | -10.80 | QP | |
| 8 | | 0.6700 | 40.81 | 0.33 | 41.14 | 46.00 | -4.86 | AVG | |
| 9 | | 0.7340 | 39.54 | 0.33 | 39.87 | 56.00 | -16.13 | QP | |
| 10 | * | 0.7340 | 44.86 | 0.33 | 45.19 | 46.00 | -0.81 | AVG | |
| 11 | | 27.9420 | 51.87 | -0.11 | 51.76 | 60.00 | -8.24 | QP | |
| 12 | | 27.9420 | 42.18 | -0.11 | 42.07 | 50.00 | -7.93 | AVG | |

Conducted Emission Test Data

| | | | |
|---------------|-------------------|--------------|-------------|
| EUT | : DESKTOP CHARGER | Temperature: | 20°C |
| M/N | : A8101 | Humidity | : 50% |
| Test Voltage | : AC 230V/50Hz | Test Mode | : Full load |
| Test Engineer | : Bill | Phase | : N-Line |

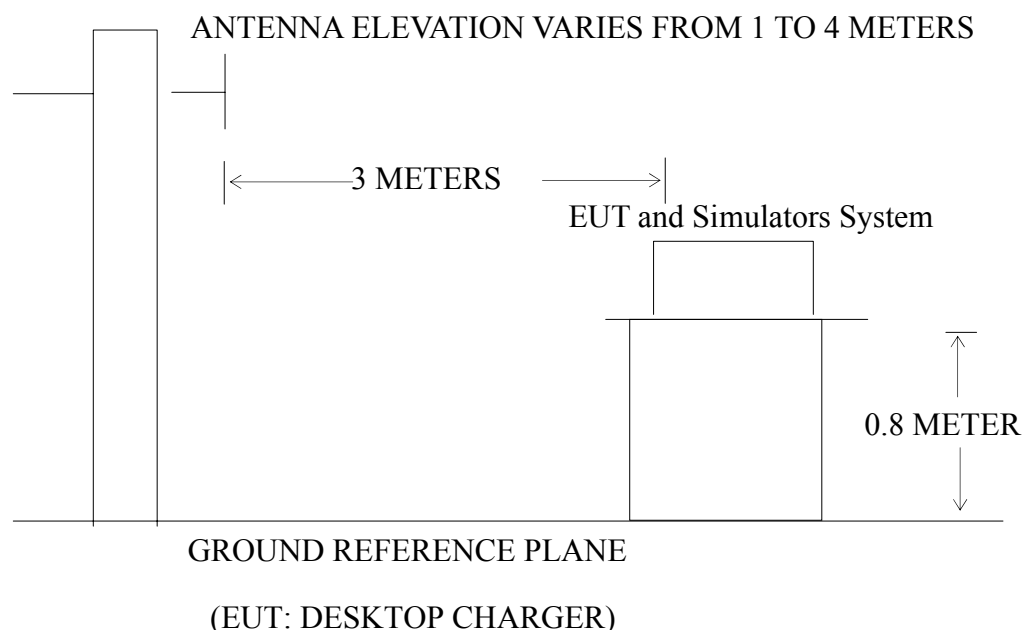


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.2020 | 53.66 | 0.19 | 53.85 | 63.52 | -9.67 | QP | |
| 2 | * | 0.2020 | 50.53 | 0.19 | 50.72 | 53.52 | -2.80 | AVG | |
| 3 | | 0.4020 | 46.31 | 0.32 | 46.63 | 57.81 | -11.18 | QP | |
| 4 | | 0.4020 | 43.34 | 0.32 | 43.66 | 47.81 | -4.15 | AVG | |
| 5 | | 0.4700 | 42.92 | 0.32 | 43.24 | 56.51 | -13.27 | QP | |
| 6 | | 0.4700 | 39.99 | 0.32 | 40.31 | 46.51 | -6.20 | AVG | |
| 7 | | 0.8020 | 42.04 | 0.32 | 42.36 | 56.00 | -13.64 | QP | |
| 8 | | 0.8020 | 38.16 | 0.32 | 38.48 | 46.00 | -7.52 | AVG | |
| 9 | | 1.0060 | 42.46 | 0.29 | 42.75 | 56.00 | -13.25 | QP | |
| 10 | | 1.0060 | 39.14 | 0.29 | 39.43 | 46.00 | -6.57 | AVG | |
| 11 | | 29.4740 | 51.35 | -0.12 | 51.23 | 60.00 | -8.77 | QP | |
| 12 | | 29.4740 | 41.98 | -0.12 | 41.86 | 50.00 | -8.14 | AVG | |

4. RADIATED EMISSION MEASUREMENT

4.1. Block Diagram of Test

4.1.1. Block diagram of test setup (In chamber)



4.2. Measuring Standard

EN 55032:2015

Radiated Emission Limits

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

| FREQUENCY (MHz) | DISTANCE (Meters) | FIELD STRENGTHS LIMIT (dB μ V/m) |
|--------------------|----------------------|---|
| 30 ~ 230 | 3 | 40 |
| 230 ~ 1000 | 3 | 47 |

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

4.3. EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

4.4. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCS30) is set at 120kHz.
The frequency range from 30MHz to 1000MHz is investigated.

Radiation Uncertainty: $U_r = \pm 3.84$ dB

Radiated Emission Test Data

| | | | |
|---------------|-------------------|--------------|--------------|
| EUT | : DESKTOP CHARGER | Temperature: | 20°C |
| M/N | : A8101 | Humidity | : 50% |
| Test Voltage | : AC 230V/50Hz | Test Mode | : Full load |
| Test Engineer | : Bill | Polarization | : Horizontal |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | | 124.1330 | 41.70 | -13.96 | 27.74 | 40.00 | -12.26 | QP | | |
| 2 | | 197.8928 | 48.15 | -14.65 | 33.50 | 40.00 | -6.50 | QP | | |
| 3 | | 210.0482 | 48.85 | -16.10 | 32.75 | 40.00 | -7.25 | QP | | |
| 4 | | 225.3080 | 48.71 | -15.57 | 33.14 | 40.00 | -6.86 | QP | | |
| 5 | | 265.6757 | 49.43 | -13.35 | 36.08 | 47.00 | -10.92 | QP | | |
| 6 | * | 111.7379 | 51.63 | -14.87 | 36.76 | 40.00 | -3.24 | QP | | |

Radiated Emission Test Data

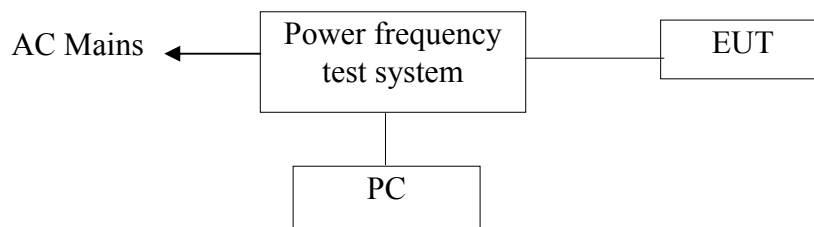
| | | | |
|---------------|-------------------|--------------|-------------|
| EUT | : DESKTOP CHARGER | Temperature: | 20°C |
| M/N | : A8101 | Humidity | : 50% |
| Test Voltage | : AC 230V/50Hz | Test Mode | : Full load |
| Test Engineer | : Bill | Polarization | : Vertical |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|-------|----------------|--------------|---------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | cm | degree | Comment |
| 1 | * | 114.5146 | 51.00 | -14.47 | 36.53 | 40.00 | -3.47 | QP | | |
| 2 | ! | 128.1130 | 49.85 | -13.81 | 36.04 | 40.00 | -3.96 | QP | | |
| 3 | ! | 189.7385 | 52.34 | -15.94 | 36.40 | 40.00 | -3.60 | QP | | |
| 4 | ! | 32.2924 | 45.19 | -8.67 | 36.52 | 40.00 | -3.48 | QP | | |
| 5 | ! | 141.3298 | 50.70 | -14.51 | 36.19 | 40.00 | -3.81 | QP | | |
| 6 | ! | 98.1419 | 53.35 | -16.95 | 36.40 | 40.00 | -3.60 | QP | | |

5. HARMONIC CURRENT EMISSION MEASUREMENT

5.1 Block Diagram of Test Setup



(EUT: DESKTOP CHARGER)

5.2 Measuring Standard

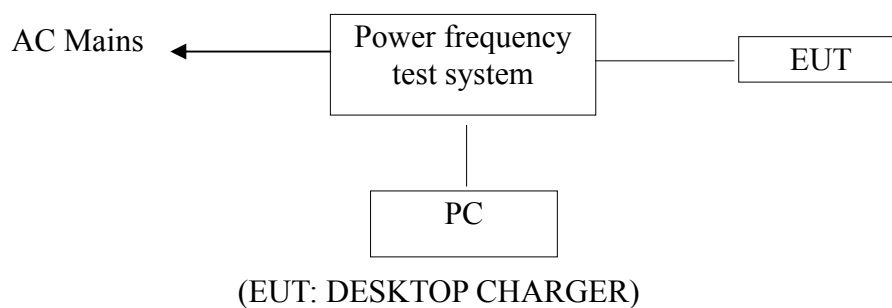
EN 61000-3-2: 2014

5.3 Description of test Equipment

Note: Equipment is less than 75W, no corresponding harmonic current limit.

6. VOLTAGE FLUCTUATION AND FLICKER MEASUREMENT

6.1 Block Diagram of Test Setup



6.2 Measuring Standard

EN61000-3-3:2013

Voltage Fluctuation Flicker Test Data

EN 61000-3-3 TEST REPORT 2017-11-08 11:25

Unit: DESKTOP CHARGER M/N: A8101
 Test mode: Full load
 Manufacturer: N/A
 Operator: Bill

=====

TEST SETUP

Test Freq. : 50.00 Hz. Test Voltage: 231.0 vac
 Waveform : SINE
 Test Time: 120.0 min. Tshort: 10.0 min.
 Prog. Zo Enabled: YES Prog. Zo: 0.000
 Voltage Change less than once per Hour: NO
 Impedance selected: IEC-725 STD. REF.
 Synthetic R+L Enabled: NO
 Resistance: 0.380 Ohms Inductance: 460.000 uH

TEST DATA

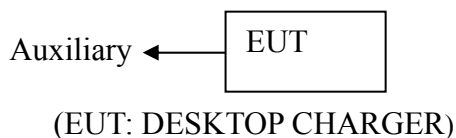
| | | | | |
|-----------|----------|-------|--------|--------------|
| Result: | PASS | | | |
| | EUT Data | Limit | Result | Test Enabled |
| Pst max | 0.180 | 1.00 | PASS | true |
| Plt max | 0.171 | 0.65 | PASS | true |
| dc % | 0.00 | 3.00 | PASS | true |
| dmax % | 1.52 | 4.00 | PASS | true |
| d(t) sec. | 0.00 | 0.20 | PASS | true |

| | | | | |
|----------------|-------------------|-------|------|------|
| | Power Source Data | | | |
| Source Pst max | 0.234 | 0.400 | PASS | true |
| % THD | 0.03 | 3.00 | PASS | true |

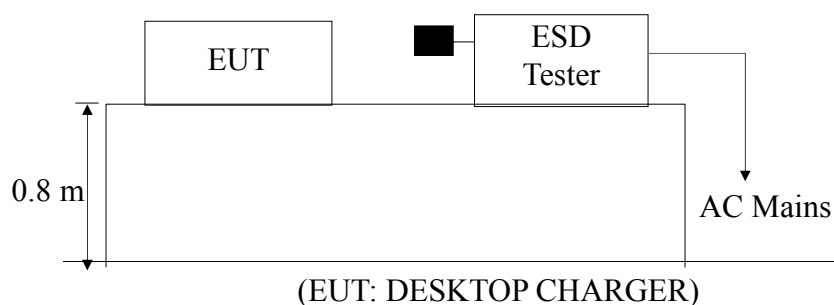
7. ELECTROSTATIC DISCHARGE IMMUNITY TEST

7.1 Block Diagram of Test Setup

7.1.1 Block Diagram of the EUT and the simulators



7.1.2 Block diagram of ESD test setup



7.2 Test Standard

EN 55024:2010+A1:2015 (EN61000-4-2: 2009)

Severity Level: 3 / Air Discharge: $\pm 8\text{KV}$ Level: 2 / Contact Discharge: $\pm 4\text{KV}$

7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

| Level | Test Voltage Contact Discharge (KV) | Test Voltage Air Discharge (KV) |
|-------|--|------------------------------------|
| 1. | ± 2 | ± 2 |
| 2. | ± 4 | ± 4 |
| 3. | ± 6 | ± 8 |
| 4. | ± 8 | ± 15 |
| X | Special | Special |

7.3.2 Performance criterion: **B**

7.4 Test Procedure

7.4.1 Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

7.4.2 Contact Discharge:

All the procedure shall be same as Section 7.4.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

7.4.3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

7.4.4 Indirect discharge for vertical coupling plane

At least 10 single discharge (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

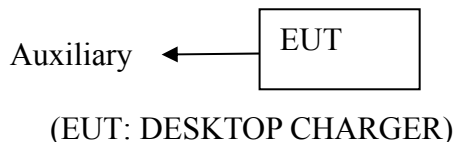
Electrostatic Discharge Test Result

| EUT | : DESKTOP CHARGER | Temperature: | 20°C |
|--|-------------------|--|--------------|
| M/N | : A8101 | Humidity | : 50% |
| Test Voltage | : AC 230V/50Hz | Test Mode | : Full load |
| Test Engineer | : Bill | Test Date | : 2017-11-08 |
| Air Discharge: \pm 8KV # For each point positive 10 times and negative 10 times discharge. Contact Discharge: \pm 4KV # For each point positive 25 times and negative 25 times discharge. | | | |
| Location | Discharge Points | Kind A-Air Discharge C-Contact Discharge | Result |
| HCP | 4 Points | C | PASS |
| VCP | 4 Points | C | PASS |
| USB Port | 8 Point | C | PASS |
| Slot | 8 Points | A | PASS |
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| Note: (The Criterion) A: Normal performance within the specification limits; B: Temporary degradation or less of function or performance which is self-recoverable; C: Temporary degradation or loss of function or performance which requires operator intervention or system reset; | | Test Equipment :ESD Tester Model: ESD61002A | |

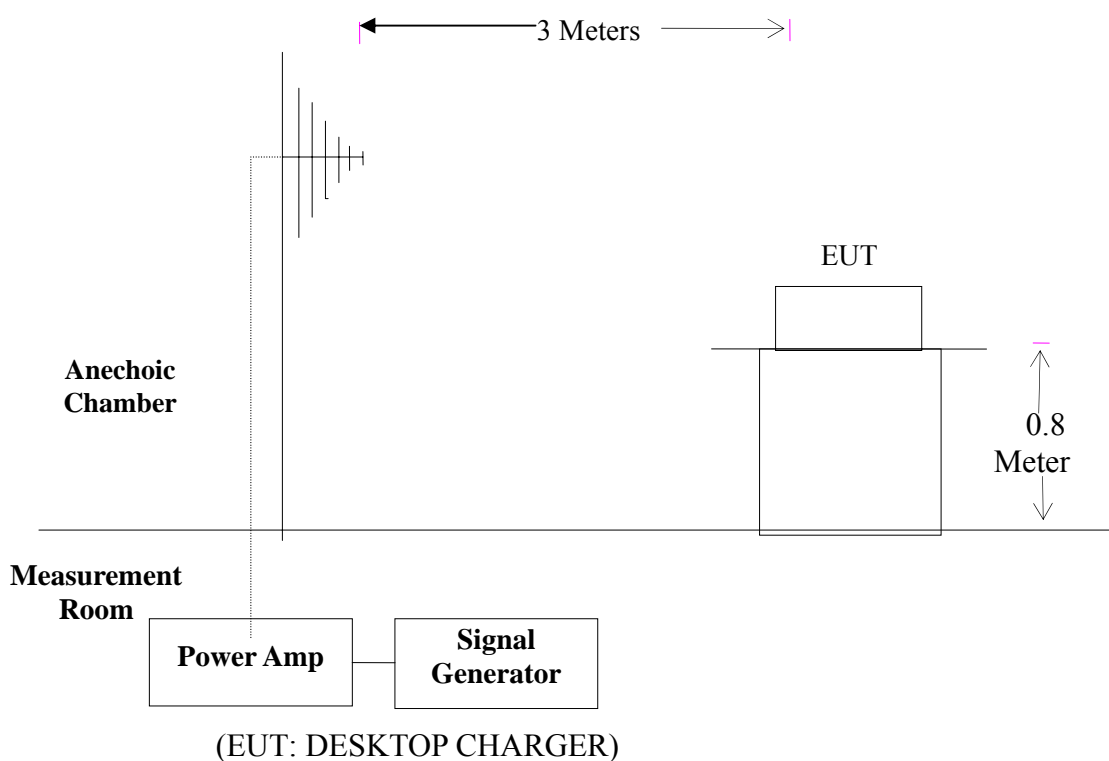
8. RF FIELD STRENGTH SUSCEPTIBILITY TEST

8.1 Block Diagram of Test

8.1.1 Block diagram of connection between the EUT and Load



8.1.2 Block diagram of RS test setup



8.2 Test Standard

EN 55024:2010+A1:2015(EN61000-4-3: 2006 (Severity Level: 2, 3V / m))

8.3 Severity Levels and Performance Criterion

8.3.1 Severity Levels

| Level | Field Strength V/m |
|-------|--------------------|
| 1. | 1 |
| 2. | 3 |
| 3. | 10 |
| X | Special |

8.3.2 Performance Criterion: A

8.4 Test Procedure

The EUT are placed on a table which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor its screen. All the scanning conditions are as following:

| Condition of Test | Remark |
|---------------------------|-------------------------|
| 1. Fielded Strength | 3V/m (Severity Level 2) |
| 2. Radiated Signal | Modulated |
| 3. Scanning Frequency | 80-1000MHz |
| 4. Sweep time of radiated | 0.0015 Decade/s |
| 2. Dwell Time | 1 Sec. |

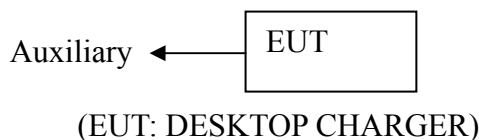
RF Field Strength Susceptibility Test Results

| | | | | | | |
|--|-------------------|-------------------------------|--|------------|----------|---|
| EUT | : DESKTOP CHARGER | Temperature | : 22℃ | | | |
| M/N | : A8101 | Humidity | : 50 % | | | |
| Test Voltage | : AC 230V/50Hz | Test Mode | : Full load | | | |
| Field Strength | : 3 V/m | Test Date | : 2017-11-08 | | | |
| Test Engineer: | Bill | Frequency Range: | 80 MHz to1000 MHz | | | |
| Modulation: | | <input type="checkbox"/> None | <input type="checkbox"/> Pulse <input checked="" type="checkbox"/> AM 1KHz 80% | | | |
| Frequency Rang 1: | | Frequency Rang 2: | | | | |
| 80~ 1000MHz | | | | | | |
| Steps | 1 | / | % | # | / | % |
| | Horizontal | Vertical | | Horizontal | Vertical | |
| Front | PASS | PASS | | | | |
| Right | PASS | PASS | | | | |
| Rear | PASS | PASS | | | | |
| Left | PASS | PASS | | | | |
| Test Equipment : 1. Signal Generator : 2031 (MARCONI) 2. Power Amplifier : 500A100 & 100W/1000M1 (A&R) 3. Power Antenna : 3108 (EMCO) & AT1080 (A&R) 4. Field Monitor : FM2000 (A&R) | | | | | | |
| Note: Note: (The Criterion) A:Normal performance within the specification limits; B:Temporary degradation or less of function or performance which is self-recoverable; C:Temporary degradation or loss of function or performance which requires operator intervention or system reset; | | | | | | |

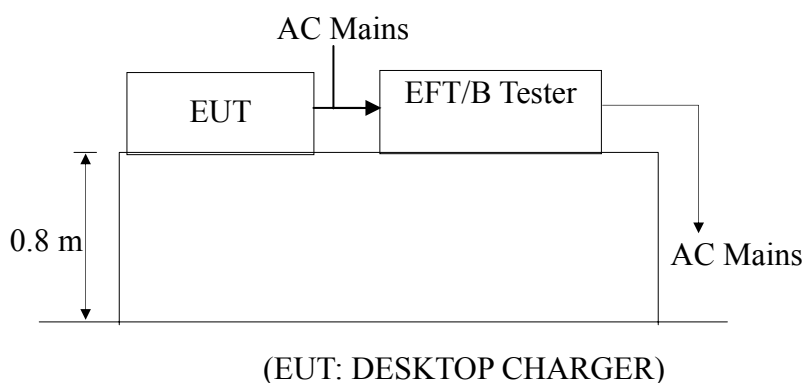
9. ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

9.1 Block Diagram of Test Setup

9.1.1. Block Diagram of the EUT



9.1.2. EFT Test Setup



9.2 Test Standard

EN 55024:2010+A1:2015 (EN61000-4-4:2012, Severity Level, Level 2: 1KV)

9.3 Severity Levels and Performance Criterion

9.3.1 Severity level

| Open Circuit Output Test Voltage $\pm 10\%$ | | |
|---|-----------------------|---|
| Level | On Power Supply Lines | On I/O (Input/Output) Signal data and control lines |
| 1. | 0.5 KV | 0.25 KV |
| 2. | 1 KV | 0.5 KV |
| 3. | 2 KV | 1 KV |
| 4. | 4 KV | 2 KV |
| X | Special | Special |

9.3.2 Performance criterion : **B**

9.4 Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground

H Building, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China
 Tel: +86-755-29113252 (30 lines) E-mail: service@poce-cert.com <http://www.poce-cert.com>

plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

9.4.1 For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

9.4.2 For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

9.4.3 For DC output line ports:

It's unnecessary to test.

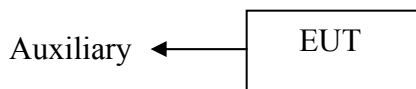
Electrical Fast Transient/Burst Test Results

| EUT | : DESKTOP CHARGER | Temperature: | 20°C |
|---|-------------------|---|------------|
| M/N | : A8101 | Humidity : | 50% |
| Test Voltage | : AC 230V/50Hz | Test Mode : | Full load |
| Test Engineer | : Bill | Test Date : | 2017-11-08 |
| Line: <input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> Signal line <input type="checkbox"/> DC line | | Coupling : <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Capacitive | |
| Test Time : 120s | | | |
| Line | Test Voltage | Result | |
| L | ± 1KV | Pass | |
| N | ± 1KV | Pass | |
| L、N | ± 1KV | Pass | |
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| <p>Test Equipment: Burst Tester Model : HEFT 51</p> <p>Note: (The Criterion)</p> <p>A: Normal performance within the specification limits;</p> <p>B: Temporary degradation or loss of function or performance which is self-recoverable;</p> <p>C: Temporary degradation or loss of function or performance which requires operator intervention or system reset;</p> | | | |

10. SURGE IMMUNITY TEST

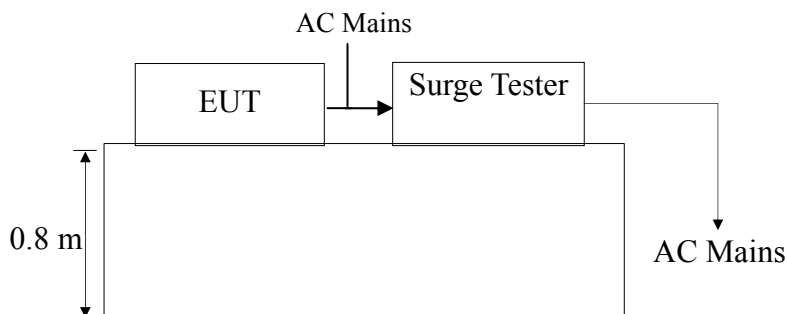
10.1 Block Diagram of Test Setup

10.1.1 Block Diagram of the EUT



(EUT: DESKTOP CHARGER)

10.1.2. Surge Test Setup



(EUT: DESKTOP CHARGER)

10.2 Test Standard

EN 55024:2010+A1:2015 (EN61000-4-5: 2014) Severity Level: Line to Line: Level 2, 1.0KV

10.3 Severity Levels and Performance Criterion

10.3.1. Severity level

| Severity Level | Open-Circuit Test Voltage KV |
|----------------|---------------------------------|
| 1 | 0.5 |
| 2 | 1.0 |
| 3 | 2.0 |
| 4 | 4.0 |
| * | Special |

10.3.2 Performance criterion: **B**

10.3 Test Procedure

- 1) Set up the EUT and test generator as shown on Section 10.1.2.
- 2) For line to line coupling mode, provide a 1.0 KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

Surge Immunity Test Result

| EUT | : DESKTOP CHARGER | Temperature: | 20℃ | | |
|---------------|-------------------|--------------|--------------|-----|---|
| M/N | : A8101 | Humidity | : 50% | | |
| Test Voltage | : AC 230V/50Hz | Test Mode | : Full load | | |
| Test Engineer | : Bill | Test Date | : 2017-11-08 | | |
| Location | Voltage (KV) | 1kV | | 2kV | |
| | Phase | + | - | + | - |
| L、N | 0° | Pass | Pass | | |
| | 90° | Pass | Pass | | |
| | 180° | Pass | Pass | | |
| | 270° | Pass | Pass | | |
| L、PE | 0° | | | | |
| | 90° | | | | |
| | 180° | | | | |
| | 270° | | | | |
| N、PE | 0° | | | | |
| | 90° | | | | |
| | 180° | | | | |
| | 270° | | | | |
| | | | | | |

Test Equipment :Surge Tester Model: HCWG

Note: (The Criterion)

A:Normal performance within the specification limits;

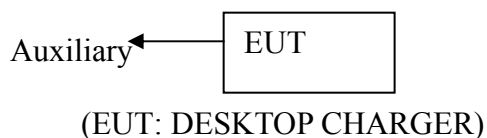
B:Temporary degradation or less of function or performance which is self-recoverable;

C:Temporary degradation or loss of function or performance which requires operator intervention or system reset;

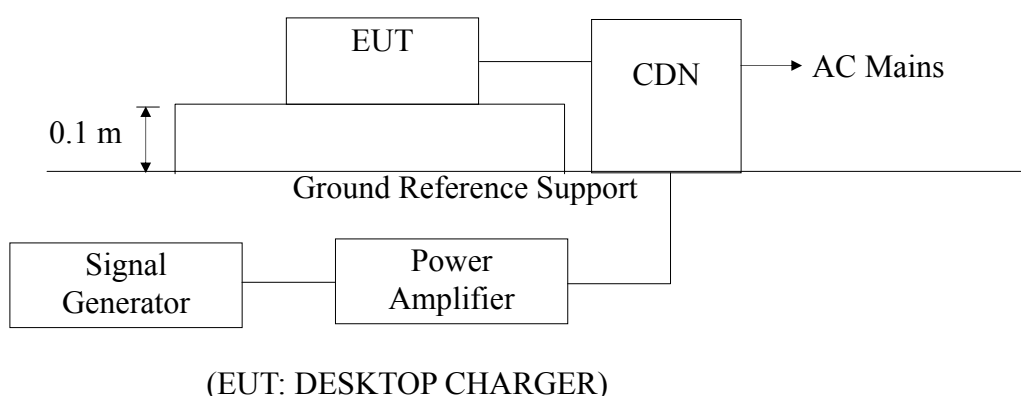
11. INJECTED CURRENTS SUSCEPTIBILITY TEST

11.1 Block Diagram of Test Setup

11.1.1 Block Diagram of the EUT



11.1.2 Block Diagram of Test Setup



11.2 Test Standard

EN 55024:2010+A1:2015 (EN61000-4-6: 2014, Severity Level: Level 2, 3V (rms), (0.15MHz ~ 80MHz)

11.3 Severity Levels and Performance Criterion

11.3.1 Severity level

| Level | Field Strength V |
|-------|------------------|
| 1 | 1 |
| 2 | 3 |
| 3 | 10 |
| X | Special |

11.3.2 Performance criterion: A

11.4 Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 11.1.2.
- 2) Let the EUT work in test mode and measure it.
- 3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

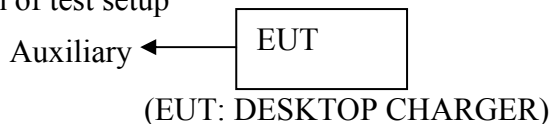
Injected Currents Susceptibility Test Results

| | | | | |
|---|---|-------------------|------------------------|--------------|
| EUT | : | DESKTOP CHARGER | Temperature: | 20°C |
| M/N | : | A8101 | Humidity | : 50% |
| Test Voltage | : | AC 230V/50Hz | Test Mode | : Full load |
| Test Engineer | : | Bill | Test Date | : 2017-11-08 |
| Frequency Range (MHz) | | Injected Position | Strength (Unmodulated) | Result |
| 0.15~80 | | AC Mains | 3V | Pass |
| | | | | |
| | | | | |
| | | | | |
| Frequency Range (MHz) | | Injected Position | Strength (Unmodulated) | Result |
| | | | | |
| | | | | |
| | | | | |
| Test Equipment :Injected Currents Tester Model: CWS500C Injection Clamp Model: F-2031-23MM CDN Model: CDN-M2, CDN-M3 Note: (The Criterion) A:Normal performance within the specification limits; B:Temporary degradation or less of function or performance which is self-recoverable; C:Temporary degradation or loss of function or performance which requires operator intervention or system reset; | | | | |

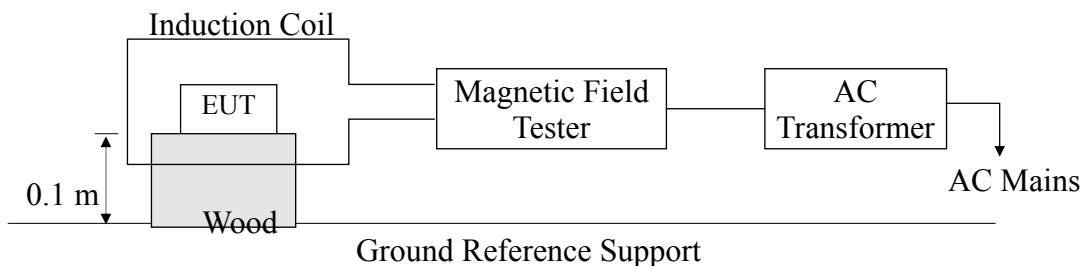
12. MAGNETIC FIELD SUSCEPTIBILITY TEST

12.1 Block Diagram of Test

12.1.1 Block diagram of test setup



12.1.2 Magnetic field test setup



12.2 Test Standard

EN 55024:2010+A1:2015 (EN61000-4-8: 2010, Severity Level: Level 1, 1A / m)

12.3 Severity Levels and Performance Criterion

12.3.1 Severity Levels

| Level | Field Strength A/m |
|-------|--------------------|
| 1 | 1 |
| 2 | 3 |
| 3 | 10 |
| 4 | 30 |
| 5 | 100 |
| X | Special |

12.3.2 Performance Criterion : A

12.4 Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table,0.8 m above the ground. Both horizontal and vertical polarization of the induction coil are set on test, so that each side of the EUT is affected by the magnetic field. Also can reach the same aim by change the position of the EUT.

Magnetic Field Immunity Test Result

| | | | | |
|---------------------|---|---------------------|------------------|--------------|
| EUT | : | DESKTOP CHARGER | Temperature: | 20°C |
| M/N | : | A8101 | Humidity | : 50% |
| Test Voltage | : | AC 230V/50Hz | Test Mode | : Full load |
| Test Engineer | : | Bill | Test Date | : 2017-11-08 |
| Test Level (A/M) | | Testing Duration | Coil Orientation | Result |
| 1 | | 5 mins | X | Pass |
| 1 | | 5 mins | Y | Pass |
| 1 | | 5 mins | Z | Pass |
| Test Level (A/M) | | Testing Duration | Coil Orientation | Result |
| | | | | |
| | | | | |
| | | | | |

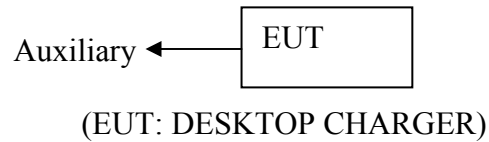
Test Equipment :Magnetic Field Tester Model: HPFM T

Note: (The Criterion)
A:Normal performance within the specification limits;
B:Temporary degradation or less of function or performance which is self-recoverable;
C:Temporary degradation or loss of function or performance which requires operator intervention or system reset;

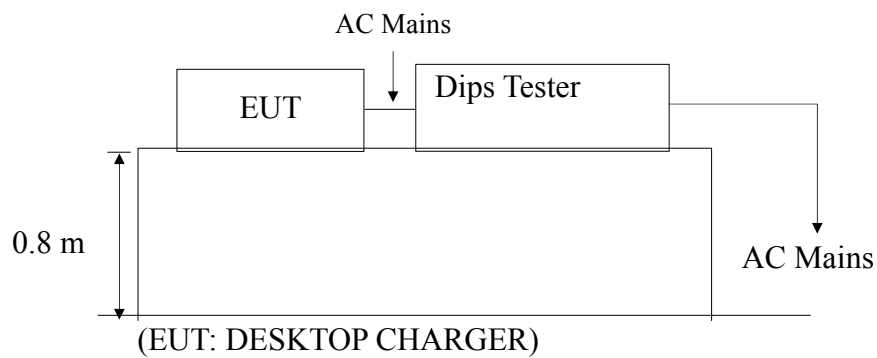
13. VOLTAGE DIPS AND INTERRUPTIONS TEST

13.1 Block Diagram of Test Setup

13.1.1 Block Diagram of the EUT



13.1.2 Dips Test Setup



13.2 Test Standard

EN 55024:2010+A1:2015 (EN61000-4-11: 2004)

13.3 Severity Levels and Performance Criterion

13.3.1 Severity level

| Test Level %UT | Voltage dip and short interruptions %UT | Duration (in period) |
|-------------------|---|-------------------------|
| 0 | 100 | 0.5 1 |
| 40 | 60 | 5 10 |
| 70 | 30 | 25 50 * |

13.3.2 Performance criterion : **B&C&C**

13.4 Test Procedure

- 1) Set up the EUT and test generator as shown on Section 13.1.2.
- 2) The interruption is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

Voltage Dips and Interruptions Test Results

| | | | | | |
|--------------------------------|---|---|--------------------------|--------------|--------|
| EUT | : | DESKTOP CHARGER | Temperature: | 20°C | |
| M/N | : | A8101 | Humidity | : 50% | |
| Test Voltage | : | AC 230V/50Hz | Test Mode | : Full load | |
| Test Engineer | : | Bill | Test Date | : 2017-11-08 | |
| Test Level % U _T | | Voltage Dips & Short Interruptions % U _T | Duration (in periods) | Criterion | Result |
| 0 | | 100 | 0.5P | B | Pass |
| 70 | | 30 | 25P | C | Pass |
| 0 | | 100 | 250P | C | Pass |
| Test Level % U _T | | Voltage Dips & Short Interruptions % U _T | Duration (in periods) | Criterion | Result |
| | | | | | |
| | | | | | |
| | | | | | |

Test Equipment : Voltage Dips And Interruptions Tester Model: HPFS

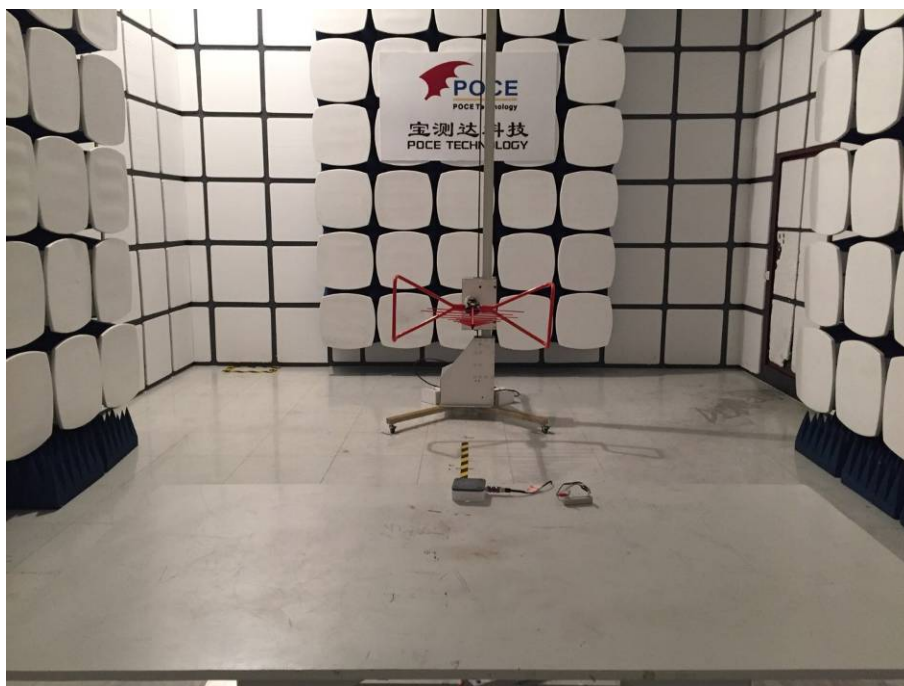
Note: (The Criterion)
A: Normal performance within the specification limits;
B: Temporary degradation or less of function or performance which is self-recoverable;
C: Temporary degradation or loss of function or performance which requires operator intervention or system reset;

14. PHOTOGRAPH

14.1 Photo of Conducted Emission



14.2 Photo of Radiated Emission



APPENDIX

Photo documentation

| | |
|---|---|
| <p>Photo 1</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input checked="" type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  |
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| | |
|---|--|
| <p>Photo 2</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input checked="" type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  |
|---|--|

Photo documentation

| | |
|---|---|
| <p>Photo 3</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input checked="" type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  |
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| <p>Photo 4</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input checked="" type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  |
|---|--|

Photo documentation

| | |
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| <p>Photo 5</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input checked="" type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  <p>A photograph showing the right side of a white, rectangular POCE device. The device has four small, dark rectangular ports along its side edge. A black ruler with white markings is placed horizontally below the device for scale. The ruler shows measurements in centimeters and millimeters. The device is placed on a light blue surface. The POCE logo is visible on the top surface of the device.</p> |
|---|---|

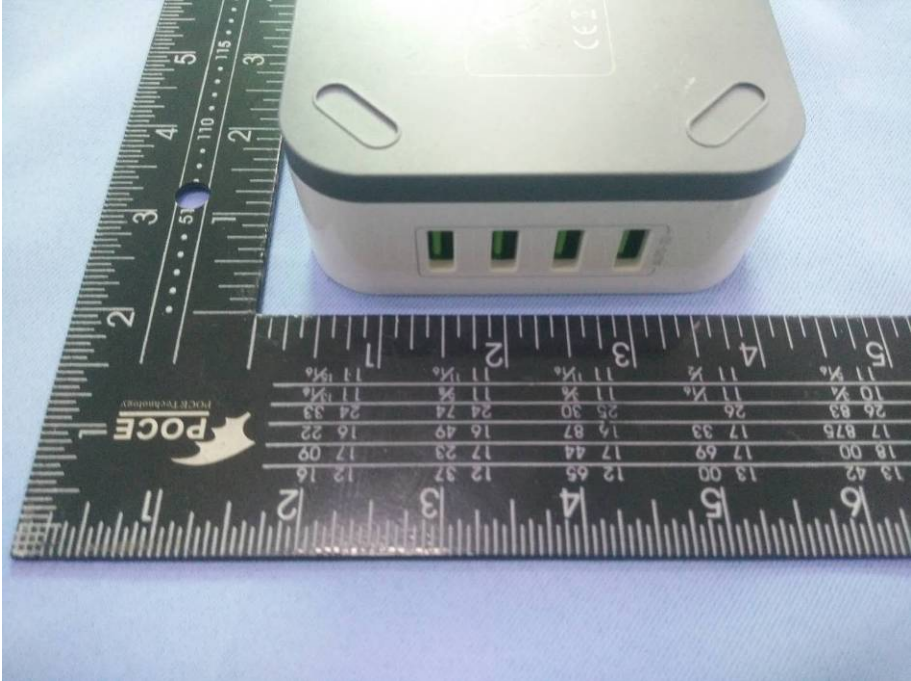
| | |
|---|--|
| <p>Photo 6</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input checked="" type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  <p>A photograph showing the left side of the same white, rectangular POCE device. The device has four small, dark rectangular ports along its side edge. A black ruler with white markings is placed horizontally below the device for scale. The ruler shows measurements in centimeters and millimeters. The device is placed on a light blue surface. The POCE logo is visible on the top surface of the device.</p> |
|---|--|

Photo documentation

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| <p>Photo 7</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input checked="" type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  |
|---|---|

| | |
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| <p>Photo 8</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input checked="" type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input type="checkbox"/> internal</p> |  |
|---|--|

Photo documentation

Photo 9

View:

- front
- rear
- right side
- left side
- top
- bottom
- internal

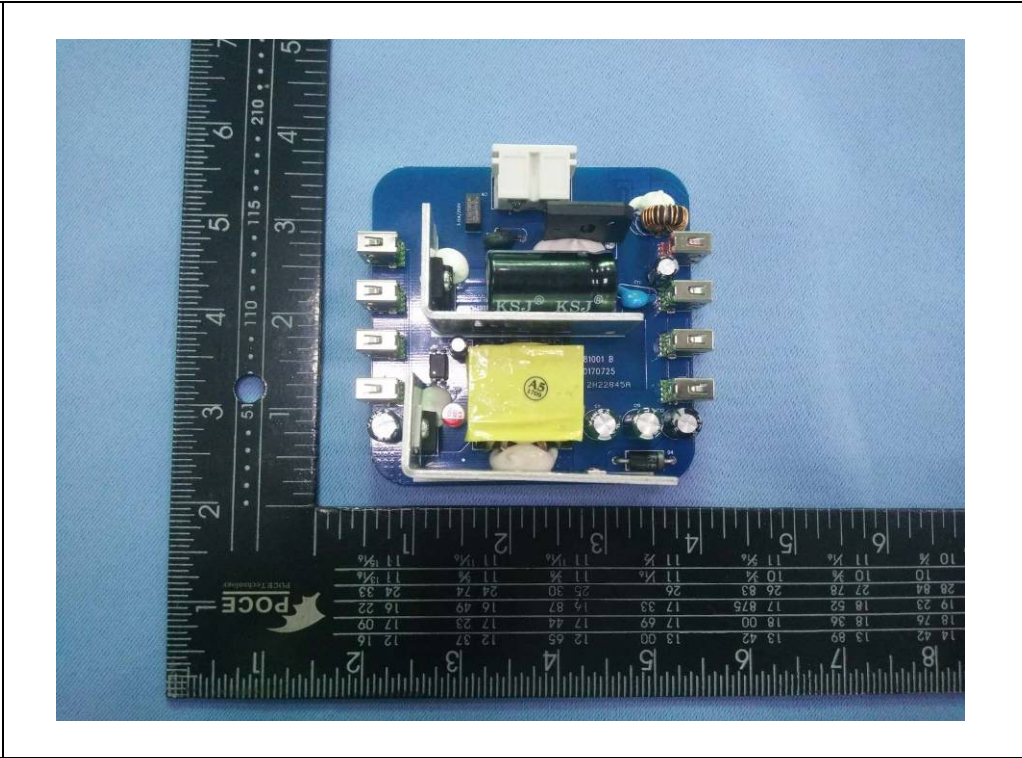


Photo 10

View:

- front
- rear
- right side
- left side
- top
- bottom
- internal

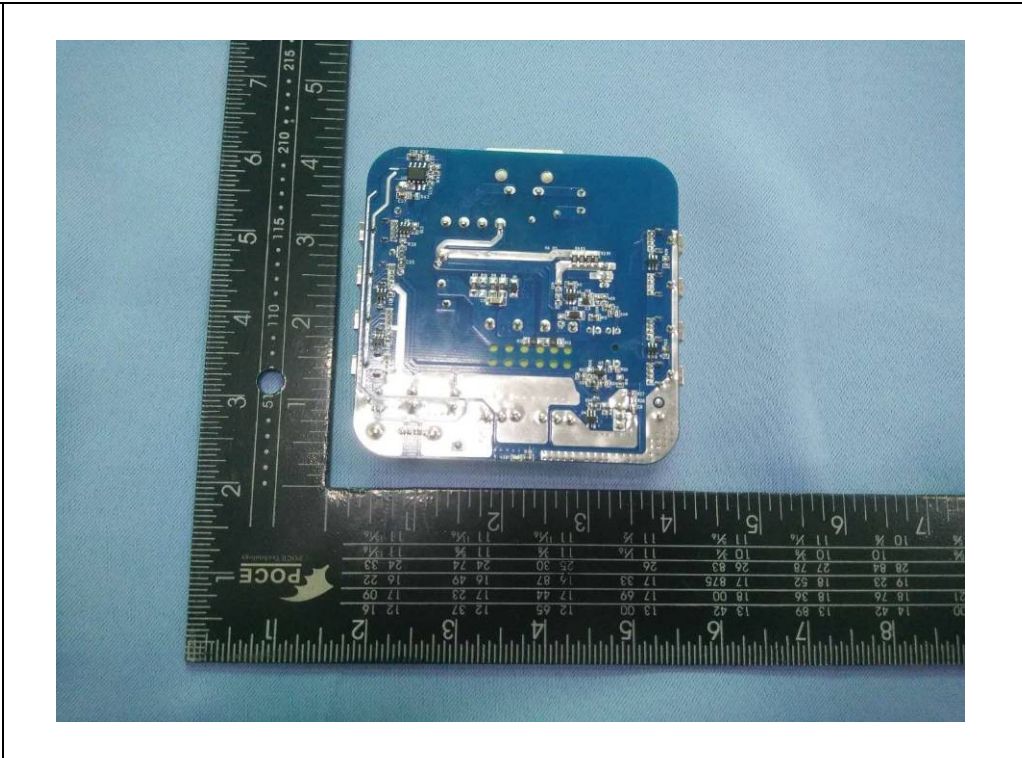
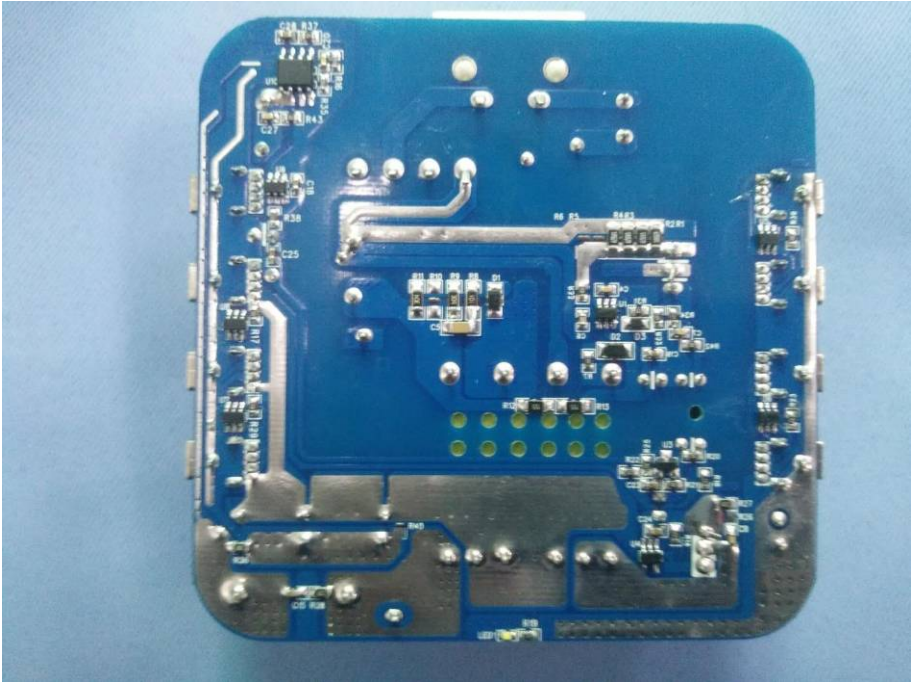


Photo documentation

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| <p>Photo 11</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input checked="" type="checkbox"/> internal</p> |  <p>The image shows the internal view of a blue printed circuit board (PCB). It features a central microcontroller unit (MCU) with several peripheral components including resistors, capacitors, and integrated circuits. The board is populated with numerous surface-mount components and has a complex layout of copper traces. The board is mounted on a metal base, and the overall appearance is that of a custom-designed electronic module.</p> |
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| <p>Photo 12</p> <p>View:</p> <p><input type="checkbox"/> front</p> <p><input type="checkbox"/> rear</p> <p><input type="checkbox"/> right side</p> <p><input type="checkbox"/> left side</p> <p><input type="checkbox"/> top</p> <p><input type="checkbox"/> bottom</p> <p><input checked="" type="checkbox"/> internal</p> |  <p>The image shows the internal view of a blue PCB, similar to Photo 11 but with a different component layout. A prominent feature is a large yellow component, likely a capacitor or a specialized IC, with the number '45' and '1709' visible on its surface. The board is populated with various components, including a black component with 'KSJ' branding, several resistors, and a network of copper traces. The board is mounted on a metal base, and the overall appearance is that of a custom-designed electronic module.</p> |
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*****THE END OF REPORT*****