



Shenzhen CTL Testing Technology Co., Ltd.  
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# Test Report

**EN 55032 Electromagnetic compatibility of multimedia equipment - Emission Requirements**

**EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity requirements**

Report Reference No. .... : CTL1903042101-E

Compiled by  
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Approved by  
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Date of issue ..... : Mar. 15, 2019

Testing Laboratory Name ..... : **Shenzhen CTL Testing Technology Co., Ltd.**

Address ..... : Floor 1-A, Baisha Technology Park, No.3011, ShaheXi Road, Nanshan District, Shenzhen, China 518055

Testing location/ procedure ..... : Full application of Harmonised standards   
Partial application of Harmonised standards   
Other standard testing methods

Applicant's name ..... : **ShenZhen Fiberroad Technology CO., Limited**

Address ..... : 2F, Building 15, Longbi Industrial Park, Dafa Road, Bantian, Longgang District, 518129, Shenzhen, P.R.China

**Test specification:**

Standard ..... : **EN 55032: 2015**  
**EN 55035: 2017**

Non-standard test method..... : /

**Test Report Form No.** .....

TRF Originator ..... : Shenzhen CTL Testing Technology Co., Ltd  
Master TRF ..... : Dated 2011-01

**Shenzhen CTL Testing Technology Co., Ltd.**

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Test item description..... : **Industrial Switch**

Trade Mark..... : Fiberroad

Test voltage ..... : DC 12V

Result ..... : **Pass**



## EMC -- Test Report

**Test Report No. :****CTL1903042101-E**

Mar. 15, 2019

Date of issue

Equipment under Test : Industrial Switch

Type / Model : FR-7M3416

Listed Models : FR-7N1XXX-(P), FR-7N2XXX-(P), FR-7N3XXX-(P), FR-7M1XXX-(P),  
FR-7M2XXX-(P), FR-7M3XXX-(P), FR-7M2XCXX-(P), FR-7M3XCXX-(P)**Applicant : ShenZhen Fiberroad Technology CO., Limited**Address : 2F, Building 15, Longbi Industrial Park, Dafa Road, Bantian, Longgang District,  
518129, Shenzhen, P.R.China**Manufacturer : ShenZhen Fiberroad Technology CO., Limited**Address : 2F, Building 15, Longbi Industrial Park, Dafa Road, Bantian, Longgang District,  
518129, Shenzhen, P.R.China**Test Result****Pass**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## History of this test report

Report No.	Version	Description	Issued Date
CTL1903042101-E	V1.0	Initial Issued Report	Mar. 15, 2019

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## **1. TEST STANDARDS**

The tests were performed according to following standards:

[EN 55032:2015](#) Electromagnetic compatibility of multimedia equipment - Emission Requirements

[EN 55035:2017](#) Electromagnetic compatibility of multimedia equipment - Immunity requirements

## 2. SUMMARY

### 2.1. General Remarks:

Date of receipt of test sample : Mar. 06, 2019

Sampling and Testing commenced on : Mar. 06, 2019

Testing concluded on : Mar. 15, 2019

### 2.2. Equipment Under Test

#### Power supply system utilised

Power supply voltage :  230V / 50 Hz  115V / 60Hz  
 12 V DC  24 V DC  
 Other (specified in blank below)

DC 9V~56V

### 2.3. Short description of the Equipment under Test (EUT)

The EUT is a Industrial Switch

### 2.4. EUT operation mode:

The equipment under test was operated during the measurement under the following conditions:

The tests are carried out with surge protective devices disconnected.

Test program (customer specific)

Emissions tests.....: According to EN55032, searching for the highest disturbance.

Immunity tests .....: According to EN55035, searching for the highest susceptibility.

---

## 2.5. EUT configuration:

(The CDF filled by the applicant can be viewed at the test laboratory.)

**The following peripheral devices and interface cables were connected during the measurement:**

■ - supplied by the manufacturer

o - supplied by the lab

## 2.6. Performance Criteria

**Definition related to the performance level:**

- based on the used product standard  
 based on the declaration of the manufacturer, requestor or purchaser

### **Criterion A:**

Definition: normal performance within limits specified by the manufacturer, requestor or purchaser:

The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

### **Criterion B:**

Definition: temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention:

The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

### **Criterion C:**

Definition: temporary loss of function or degradation of performance, the correction of which requires operator intervention:

Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

### **3. TEST ENVIRONMENT**

#### **3.1. Address of the test laboratory**

Shenzhen CTL Testing Technology Co., Ltd.  
Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

#### **3.2. Test Facility**

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

##### **IC Registration No.: 9618B**

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

##### **FCC-Registration No.: 399832**

Shenzhen CTL Testing Technology Co., Ltd. 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 399832, December 08, 2017.

Certificated by A2LA, USA  
Registration No.:4343.01  
Date of registration: December 27, 2017

#### **3.3. Environmental conditions**

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>22-25 ° C</u>
Humidity:	<u>40-54 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

### 3.4. Test Description

Emission Measurement		
Radiated Emission	EN 55032:2015	PASS
Immunity Measurement		
Electrostatic Discharge	EN 55035: 2017 IEC 61000-4-2: 2008	PASS
RF Field Strength Susceptibility	EN 55035: 2017 IEC 61000-4-3: 2010	PASS
Power Frequency Magnetic Field Susceptibility Test	EN 55035: 2017 IEC 61000-4-8: 2009	PASS

Remark:

1. The test result PASS and /or FAIL has no relationship with the measurement uncertainty.

### 3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission(chamber1)	30~1000MHz	± 3.20dB	(1)
Radiated Emission(chamber2)	30~1000MHz	± 3.53dB	(1)
Conducted Emission	0.15~30MHz	± 2.66dB	(1)
Radiated Emission	Above 1GHz	± 4.32dB	(1)
Disturbance Power	30~300MHz	± 2.90dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.6. Equipments Used during the Test

Radiated Emission (Chamber 1) (Below 1GHz)						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	ULTRA-BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2018/10/08	2019/10/07
2	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2018/05/25	2019/05/24

Electrostatic Discharge						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	ESD Simulator	TESEQ AG	NSG 437	1058	2018/10/07	2019/10/06

RF Field Strength Susceptibility						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	SIGNAL GENERATOR	HEWLETT PACKARD	8648C	3642U01765	2018/10/08	2019/10/07
2	Power Amplifier	AR	150W1000M3	309401	2018/10/08	2019/10/07
3	Power Meter	Agilent	E4419B	GB43317877	2018/10/08	2019/10/07
4	Directional Coupler	Emtrace	DDC-0210-150W	N/A	2018/10/08	2019/10/07
5	Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	N/A	2018/10/08	2019/10/07

Power Frequency Magnetic Field Susceptibility						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	MAGNETIC COIL	HTEC Instruments Ltd.	HPFMF	154402	2018/05/25	2019/05/24

Radiated Emission(Chamber 2) (Above 1GHz)						
Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due	
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2018/05/25	2019/05/24	
Horn Antenna	Sunol Sciences Corp	DRH-118	A062013	2018/05/25	2019/05/24	

## 4. TEST CONDITIONS AND RESULTS

### 4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

#### 4.1.1. Description of the test location

Test location: Radiation Lab

#### 4.1.2. Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)	
30 ~ 230	3	50	
230 ~ 1000	3	57	
Frequency (MHz)	Distance (Meters)	QP(dB $\mu$ V/m)	AV(dB $\mu$ V/m)
1000 ~ 3000	3	80	60
3000 ~ 6000	3	84	64

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

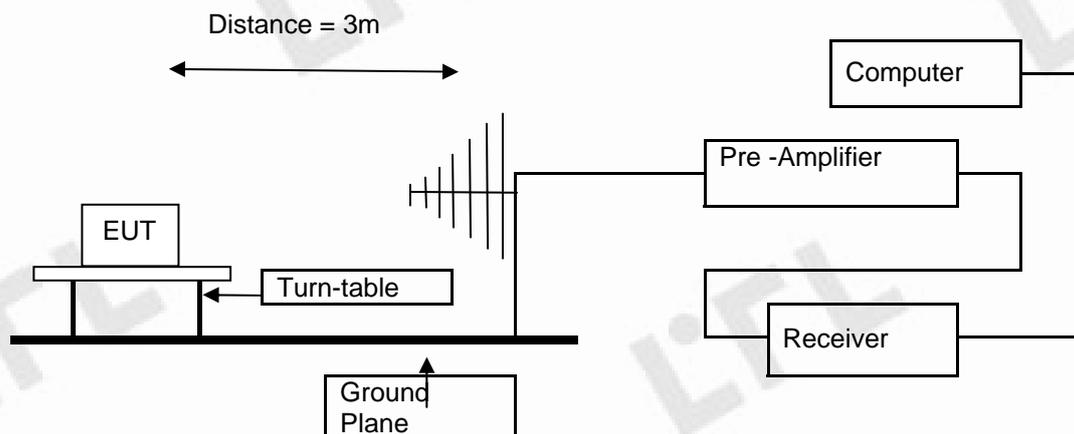
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

#### 4.1.3. Description of the test set-up

##### 4.1.3.1. Operating Condition

The EUT is set to work shall be carried out with full load mode during the test, and the maximum emanating results are recorded.

##### 4.1.3.2. Configuration of test setup



#### 4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120KHz

Frequency Range: 30MHz to 1000MHz

**Remarks:** The limits are kept. For detailed results, please see the following page(s).

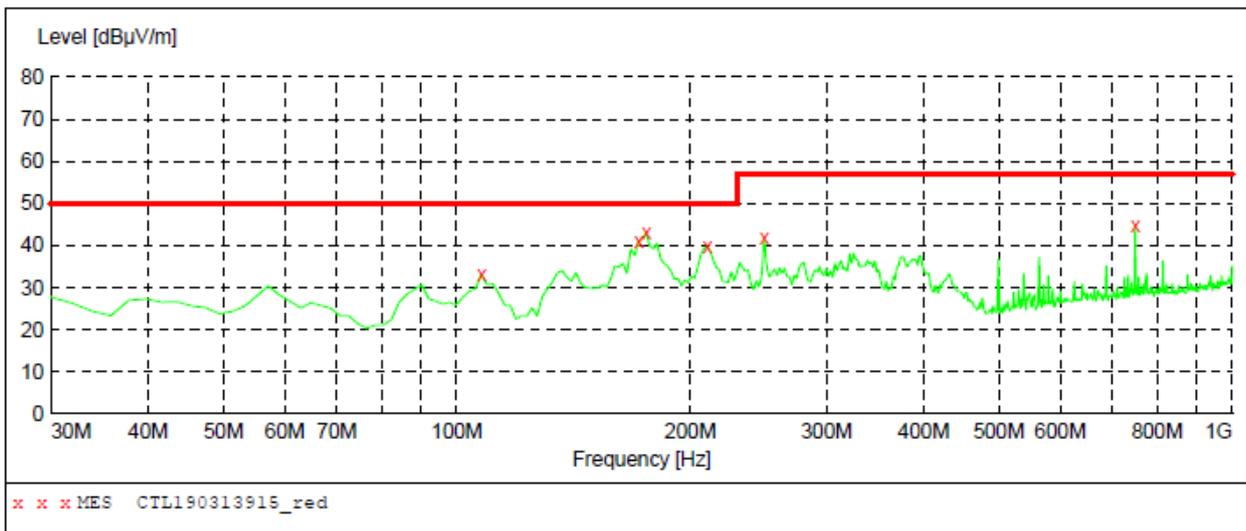
**Shenzhen CTL Testing Technology Co.,Ltd**

**Radiation Emission Test EN 55032**

EUT: FR-7M3416  
 Manufacturer: Shenzhen Fiberroad Technology CO., Limited  
 Operating Condition: WORKING  
 Test Site: Chamber 1  
 Operator: WZ  
 Test Specification: DC 12V  
 Comment: /  
 Start of Test: 13/03/2019 / 23:42:58

**SWEEP TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	100 kHz	JB1



**MEASUREMENT RESULT: "CTL190313915\_red"**

13/03/2019 23:44

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
107.600000	33.00	12.9	50.0	17.0	---	0.0	0.00	HORIZONTAL
171.620000	40.90	14.5	50.0	9.1	---	0.0	0.00	HORIZONTAL
175.500000	43.00	14.6	50.0	7.0	---	0.0	0.00	HORIZONTAL
210.420000	39.70	14.5	50.0	10.3	---	0.0	0.00	HORIZONTAL
249.220000	41.70	14.4	57.0	15.3	---	0.0	0.00	HORIZONTAL
749.740000	44.60	24.9	57.0	12.4	---	0.0	0.00	HORIZONTAL

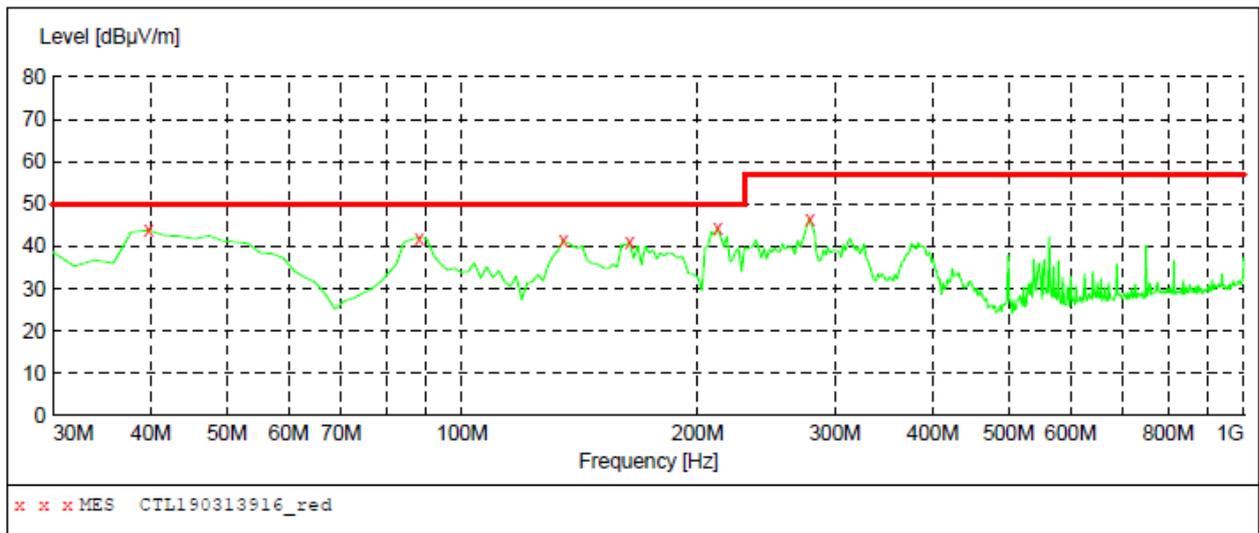
**Shenzhen CTL Testing Technology Co.,Ltd**

**Radiation Emission Test EN 55032**

EUT: FR-7M3416  
 Manufacturer: Shenzhen Fiberroad Technology CO., Limited  
 Operating Condition: WORKING  
 Test Site: Chamber 1  
 Operator: WZ  
 Test Specification: DC 12V  
 Comment: /  
 Start of Test: 13/03/2019 / 23:44:57

**SWEEP TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
30.0 MHz	1.0 GHz	MaxPeak	300.0 ms	100 kHz	JB1



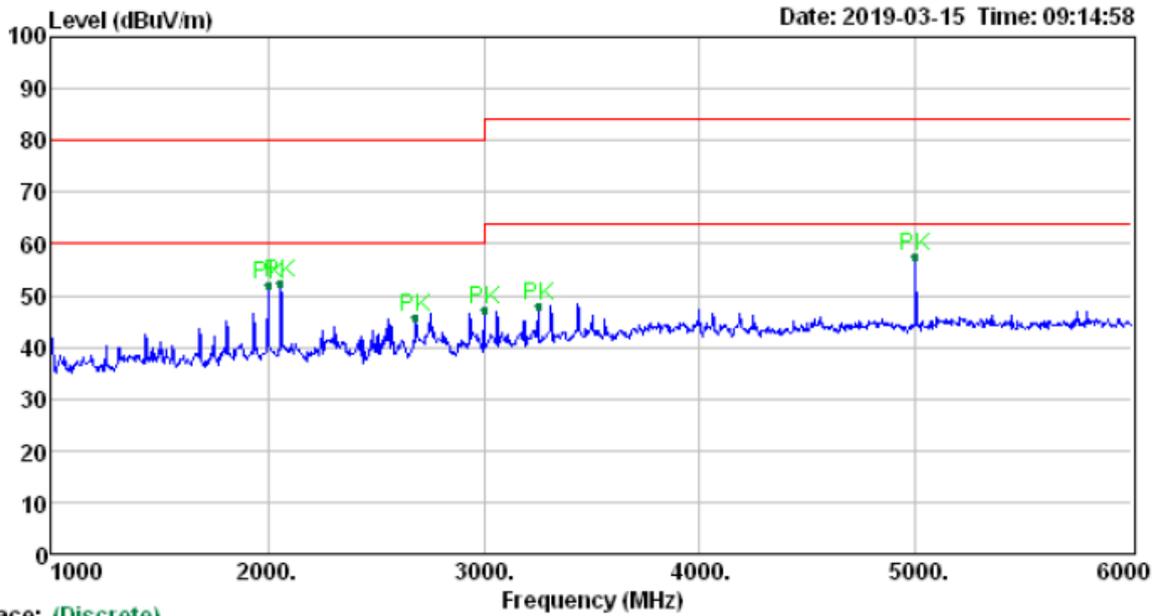
**MEASUREMENT RESULT: "CTL190313916\_red"**

13/03/2019 23:47

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
39.700000	43.80	15.2	50.0	6.2	---	0.0	0.00	VERTICAL
88.200000	42.00	8.8	50.0	8.0	---	0.0	0.00	VERTICAL
134.760000	41.40	15.1	50.0	8.6	---	0.0	0.00	VERTICAL
163.860000	40.80	14.5	50.0	9.2	---	0.0	0.00	VERTICAL
212.360000	44.10	14.5	50.0	5.9	---	0.0	0.00	VERTICAL
278.320000	46.30	15.4	57.0	10.7	---	0.0	0.00	VERTICAL

EUT: FR-7M3416  
Manufacturer: ShenZhen Fiberroad Technology CO., Limit  
Operating Condition: WAORKIIG  
Test Site: Chamber 2  
Operator: WYC  
Test Specification: DC12V  
Comment: /

Data: 1747 File: E:\E3 TEST DATA\1g-6g scan.EM6 (1796)

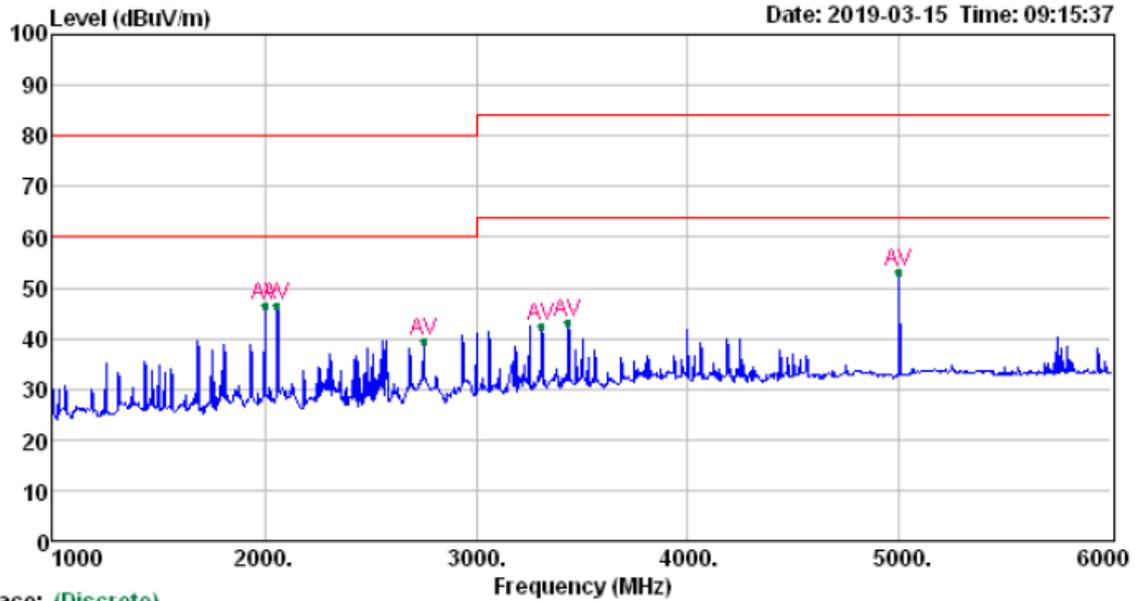


Trace: (Discrete)

Mark	Frequency MHz	Level dBuV	Factor dB	Reading dBuV	Limit dB	Margin dB	Det.	Polarization
1	2000.00	52.11	-4.16	56.27	80.00	27.89	Peak	HORIZONTAL
2	2060.00	52.36	-3.98	56.34	80.00	27.64	Peak	HORIZONTAL
3	2685.00	45.68	-2.37	48.05	80.00	34.32	Peak	HORIZONTAL
4	3000.00	47.06	-0.78	47.84	80.00	32.94	Peak	HORIZONTAL
5	3250.00	47.83	0.42	47.41	84.00	36.17	Peak	HORIZONTAL
6	5000.00	57.42	5.43	51.99	84.00	26.58	Peak	HORIZONTAL

EUT: FR-7M3416  
Manufacturer: ShenZhen Fiberroad Technology CO., Limit  
Operating Condition: WAORKING  
Test Site: Chamber 2  
Operator: WYC  
Test Specification: DC12V  
Comment: /

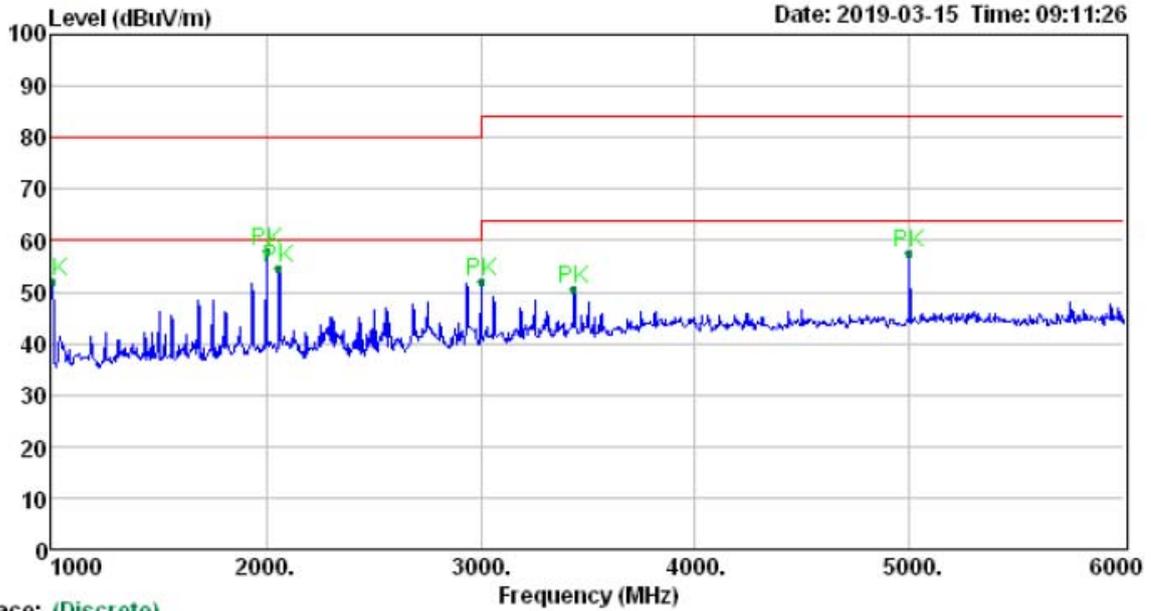
Data: 1748 File: E:\E3 TEST DATA\1g-6g scan.EM6 (1796)



Mark	Frequency MHz	Level dBuV	Factor dB	Reading dBuV	Limit dB	Margin dB	Det.	Polarization
1	2000.00	46.47	-4.16	50.63	60.00	13.53	Average	HORIZONTAL
2	2060.00	46.56	-3.98	50.54	60.00	13.44	Average	HORIZONTAL
3	2750.00	39.48	-2.11	41.59	60.00	20.52	Average	HORIZONTAL
4	3310.00	42.44	0.65	41.79	64.00	21.56	Average	HORIZONTAL
5	3435.00	43.08	0.95	42.13	64.00	20.92	Average	HORIZONTAL
6	5000.00	53.15	5.43	47.72	64.00	10.85	Average	HORIZONTAL

EUT: FR-7M3416  
 Manufacturer: ShenZhen Fiberroad Technology CO., Limit  
 Operating Condition: WAORKIING  
 Test Site: Chamber 2  
 Operator: WYC  
 Test Specification: DC12V  
 Comment: /

Data: 1745 File: E:\E3 TEST DATA\1g-6g scan.EM6 (1796) Date: 2019-03-15 Time: 09:11:26



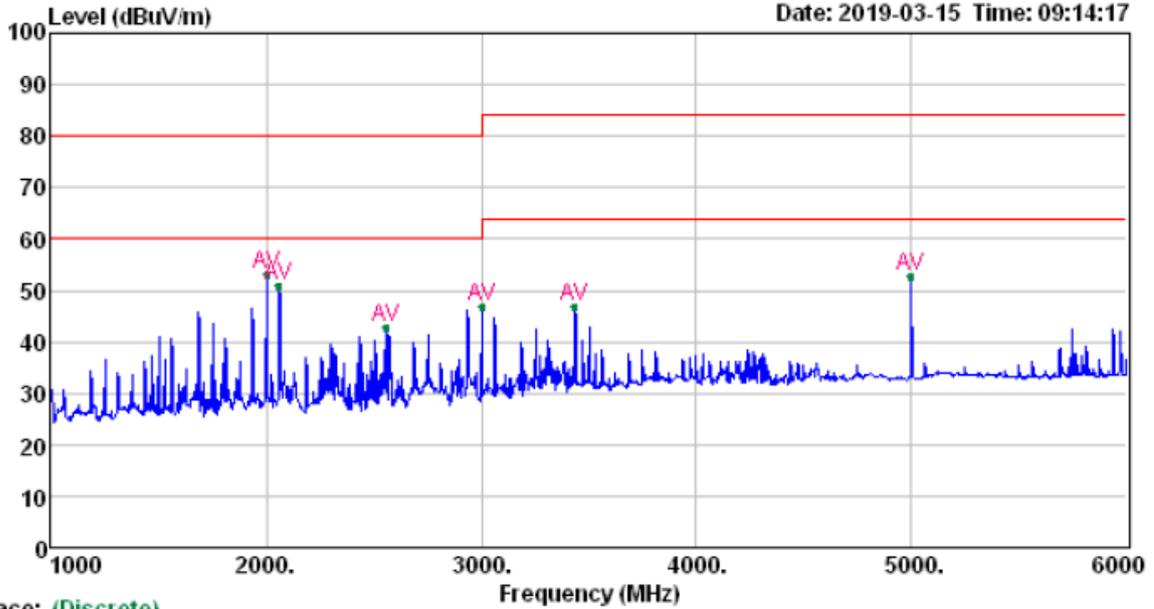
Trace: (Discrete)

Mark	Frequency MHz	Level dBuV	Factor dB	Reading dBuV	Limit dB	Margin dB	Det.	Polarization
1	1005.00	51.87	-9.77	61.64	80.00	28.13	Peak	VERTICAL
2	2000.00	58.06	-4.16	62.22	80.00	21.94	Peak	VERTICAL
3	2060.00	54.47	-3.98	58.45	80.00	25.53	Peak	VERTICAL
4	3000.00	51.94	-0.78	52.72	80.00	28.06	Peak	VERTICAL
5	3435.00	50.67	0.95	49.72	84.00	33.33	Peak	VERTICAL
6	5000.00	57.70	5.43	52.27	84.00	26.30	Peak	VERTICAL

EUT: FR-7M3416  
Manufacturer: ShenZhen Fiberroad Technology CO., Limit  
Operating Condition: WAORKIING  
Test Site: Chamber 2  
Operator: WYC  
Test Specification: DC12V  
Comment: /

Data: 1746 File: E:\E3 TEST DATA\1g-6g scan.EM6 (1796)

Date: 2019-03-15 Time: 09:14:17



Trace: (Discrete)

Mark	Frequency MHz	Level dBuV	Factor dB	Reading dBuV	Limit dB	Margin dB	Det.	Polarization
1	2000.00	52.98	-4.16	57.14	60.00	7.02	Average	VERTICAL
2	2060.00	50.77	-3.98	54.75	60.00	9.23	Average	VERTICAL
3	2560.00	42.76	-2.65	45.41	60.00	17.24	Average	VERTICAL
4	3000.00	46.69	-0.78	47.47	60.00	13.31	Average	VERTICAL
5	3435.00	47.01	0.95	46.06	64.00	16.99	Average	VERTICAL
6	5000.00	52.63	5.43	47.20	64.00	11.37	Average	VERTICAL

## 4.2. Electrostatic discharge

For test instruments and accessories used see section 3.6.

### 4.2.1. Description of the test location and date

Test location: 1# EMC Test Room

Date of test: Mar. 14, 2019

Operator: Lykan

### 4.2.2. Severity levels of electrostatic discharge

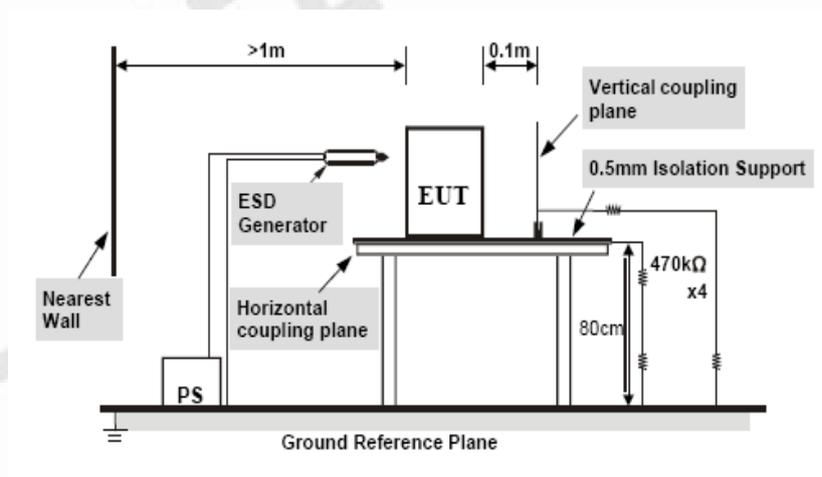
Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	2	2
2	4	4
3	6	8
4	8	15
X	Special	Special

### 4.2.3. Description of the test set-up

#### 4.2.3.1. Operating Condition

The EUT is set to work shall be carried out with normal working mode during the test, and the maximum emanating results are recorded.

#### 4.2.3.2. Configuration of test setup



**4.2.4. Test specification:**Contact discharge voltage:

- 2 kV             4 kV

Air discharge voltage:

- 2 kV             4 kV             8 kV

Number of discharges:

- $\geq 10$               $\geq 25$

Type of discharge:

- Direct discharge             Air discharge  
     Contact discharge  
 Indirect discharge             Contact discharge

Polarity:

- Positive             Negative

Discharge location:

- see photo documentation of the test set-up
- all external locations accessible by hand
- horizontal plate (HCP)
- vertical coupling plate (VCP)

**4.2.5. Test result**The requirements are **Fulfilled**Performance Criterion: **B**

**Remarks:** During the test no deviation was detected to the selected operation mode(s).

### 4.3. Radiated, radio-frequency, electromagnetic field

For test instruments and accessories used see section 3.6.

#### 4.3.1. Description of the test location and date

Test location: Chamber 2

Date of test: Mar. 14, 2019

Operator: Lykan

#### 4.3.2. Severity levels of radiated, radio-frequency, electromagnetic field

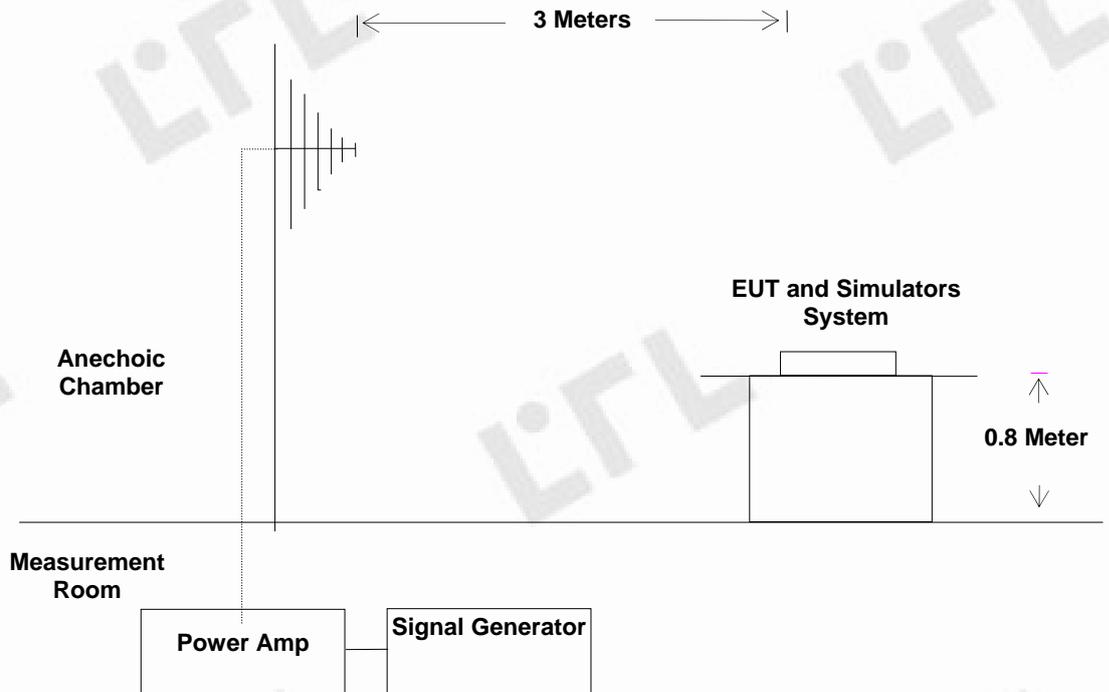
Level	Field Strength (V/m)
1.	1
2.	3
3.	10
X	Special

#### 4.3.3. Description of the test set-up

##### 4.3.3.1. Operating Condition

The EUT is set to work shall be carried out normal working mode during the test, and the maximum emanating results are recorded.

##### 4.3.3.2. Configuration of test setup



**4.3.4. Test specification:**

- Frequency range: ■ 80 MHz to 1000 MHz
- Field strength: ■ 3 V/m
- EUT - antenna separation: ■ 3 m
- Modulation: ■ AM: 80 %  
■ sinusoidal 1000Hz
- Frequency step: ■ 1 % with 3 s dwell time
- Antenna polarisation: ■ horizontal ■ vertical

**4.3.5. Test result**

The requirements are **Fulfilled**

Performance Criterion: **A**

**Remarks:** During the test no deviation was detected to the selected operation mode(s).

---

#### 4.4. Magnetic Field Immunity

For test instruments and accessories used see section 3.6.

##### 4.4.1. Description of the test location

Test location: 2# EMC Test Room

Date of test: Mar. 14, 2019

Operator: Lykan

##### 4.4.2. Severity levels of magnetic field immunity

Level	Magnetic Field Strength (A/m)
1	1
2	3
3	10
4	30
5	100
X.	Special

##### 4.4.3. Description of the test set-up

###### 4.4.3.1. Operating Condition

The EUT is set to work shall be carried out normal working mode during the test, and the maximum emanating results are recorded.

##### 4.4.4. Test specification:

Test frequency:  50 Hz

Continuous field:  1 A/m

Test duration:  5 Minutes

Antenna factor: 0.917 A/m

Axis:  x-axis  y-axis  z-axis

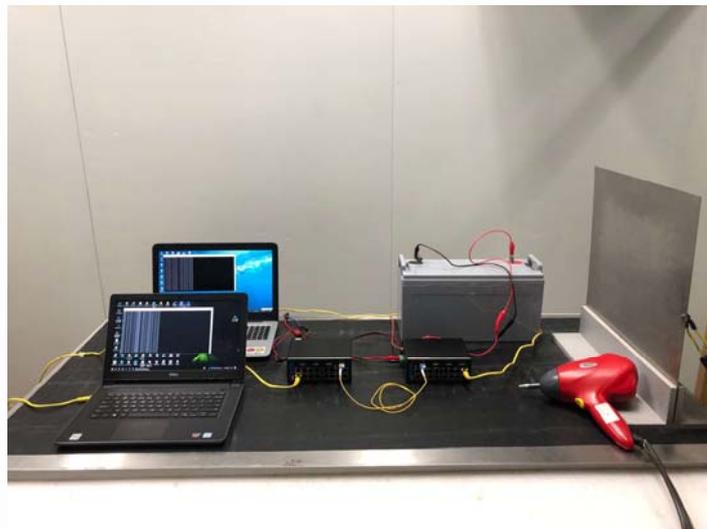
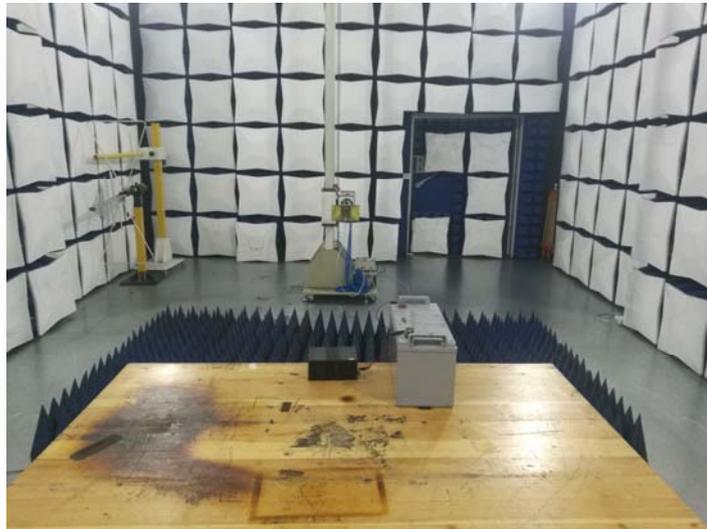
##### 4.4.5. Test result

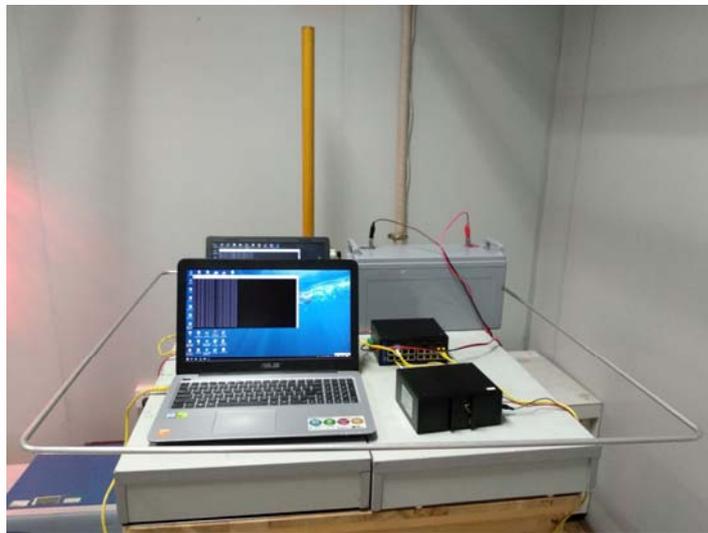
The requirements are **Fulfilled**

Performance Criterion: **A**

Remarks: During the test no deviation was detected to the selected operation mode(s).

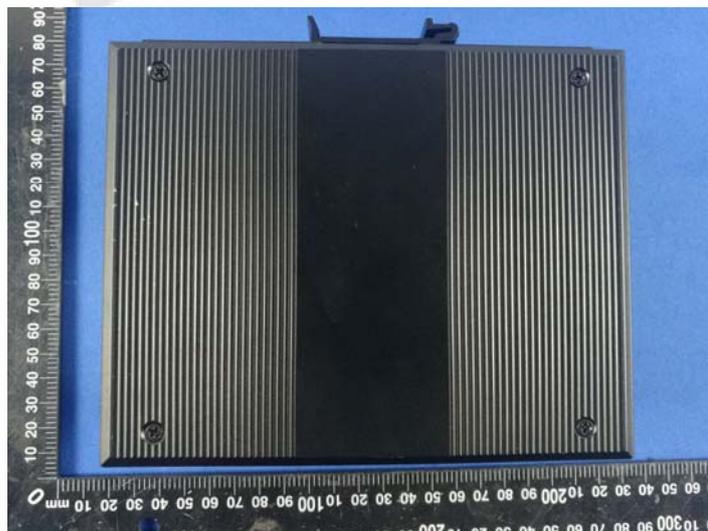
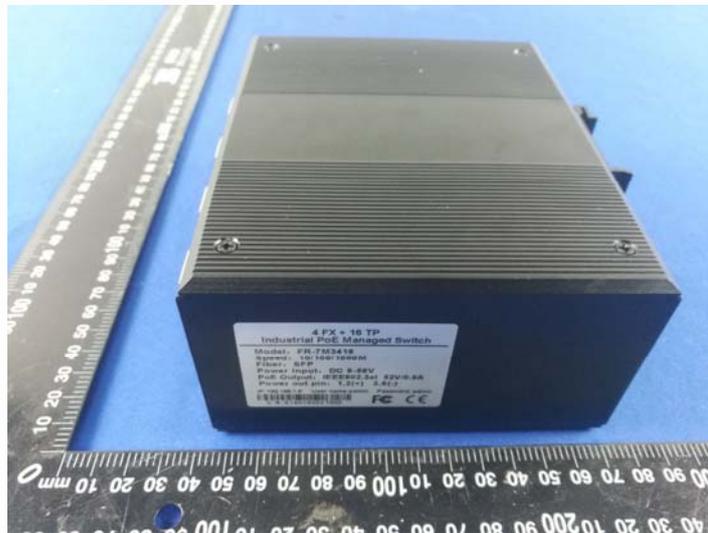
## 5. Test Setup Photos

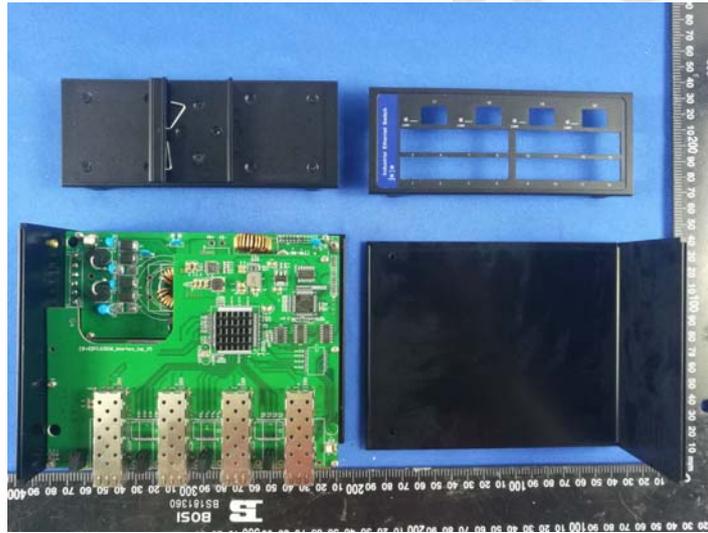


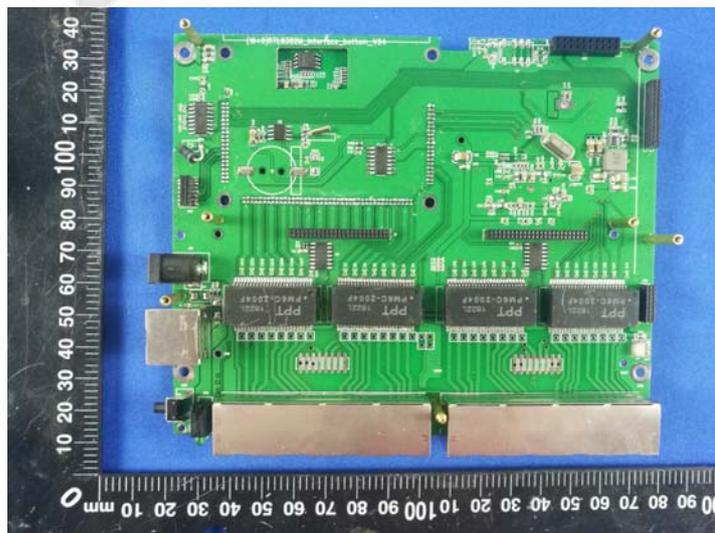
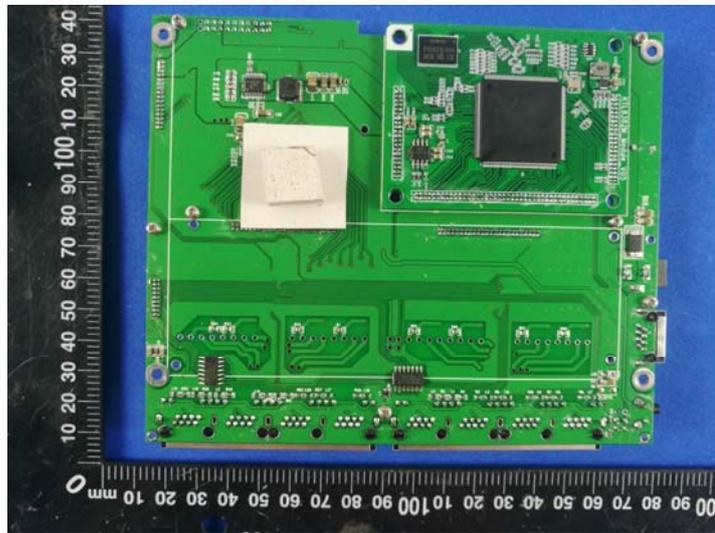
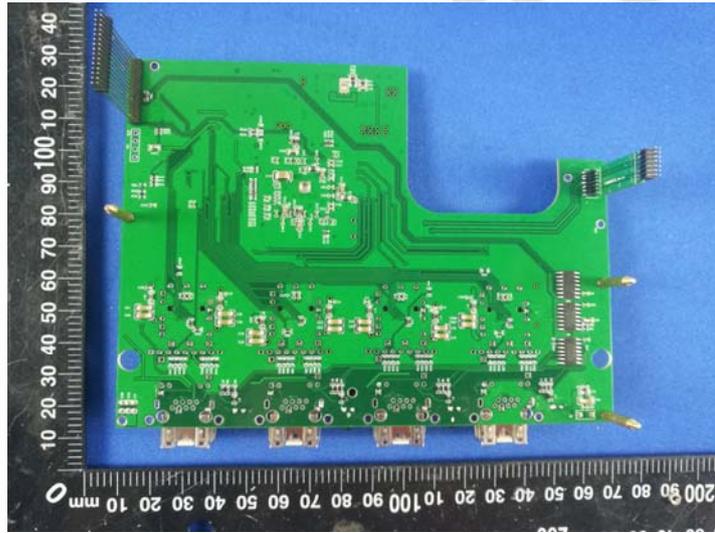


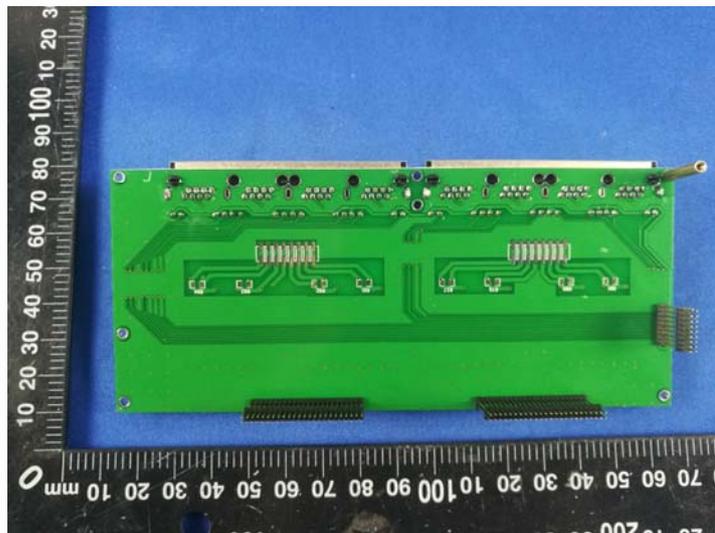
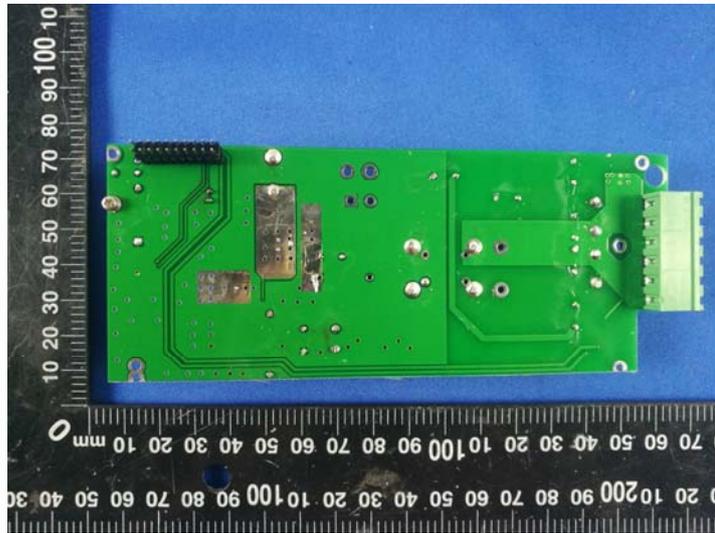
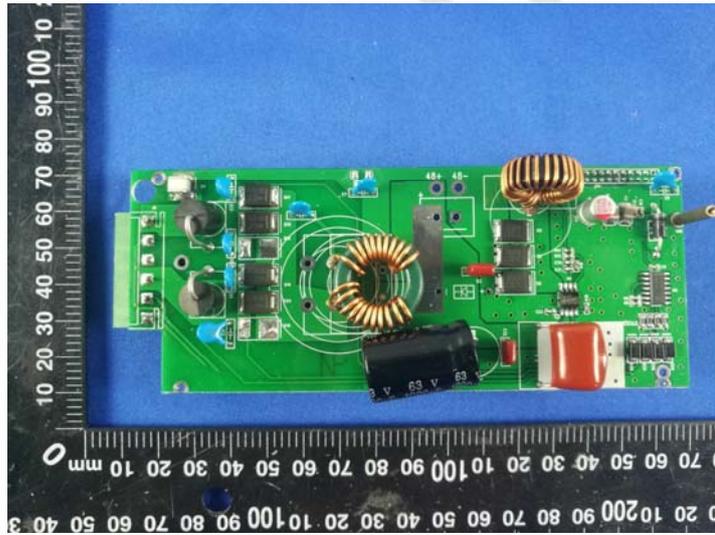
## 6. Photos of the EUT

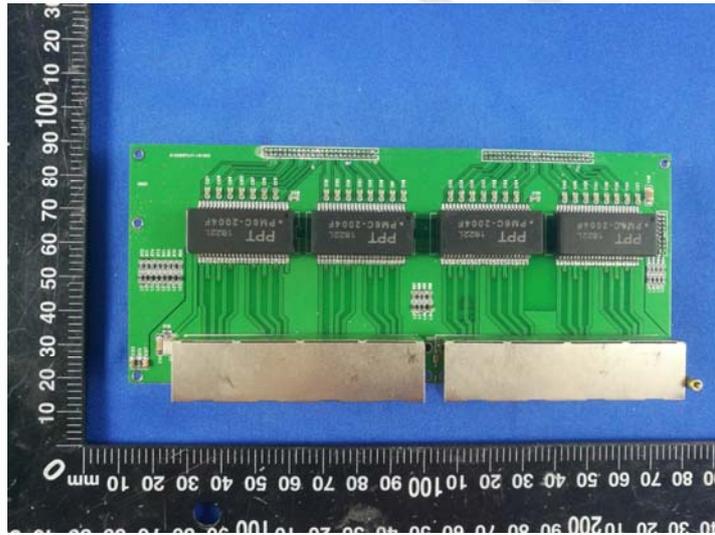












..... End Of Report.....