

FCC TEST REPORT

On Behalf of

Beijing TierTime Technology Co. Ltd

UP BOX

Model No.: 3DP-25-4A, 3DP-25-4B, 3DP-25-4C, 3DP-25-4D, 3DP-25-4E **FCC ID: 2AAHW-3DP-25**

Prepared for: Beijing TierTime Technology Co. Ltd

Address : No.18 Yanqi Avenue, Yanqi Economic Development Area, Huairou

District, Beijing, 101407, P. R. China

Prepared By: Alpha Product Testing Laboratory

Address : Building B, East Area of Nanchang Second Industrial Zone,

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TEST REPORT VERIFICATION

Applicant : Beijing TierTime Technology Co. Ltd Manufacturer : Beijing TierTime Technology Co. Ltd

EUT Description : UP BOX

(A) Model No. : 3DP-25-4A, 3DP-25-4B, 3DP-25-4C, 3DP-25-4D,

3DP-25-4E

(B) Trademark : N/A(C) Ratings Supply : DC 24V

(D) Test Voltage : DC 24V From Adapter with AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2013.

The device described above is tested by Alpha Product Testing Laboratory to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Alpha Product Testing Laboratory is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part15 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Alpha Product Testing Laboratory

Tested by (name + signature).....

Test Engineer

Approved by (name + signature).....:

Simple Guan Project Manager

Date of issue..... January 21, 2015

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION							
Description of Test Item	Standard	Limits	Results				
Power Line Conducted Emission Test	FCC Part 15:2013 ANSI C63.4:2003	Class B	PASS				
Radiated Emission Test	FCC Part 15:2013 ANSI C63.4:2003	Class B	PASS				
N/A is an abbreviation for Not Applicable.							

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description : UP BOX

Model Number : 3DP-25-4A, 3DP-25-4B, 3DP-25-4C, 3DP-25-4D, 3DP-25-4E

DIFF : All model's the function and electric circuit are the same, Just

different color appearance, So all the test were performed on the

model 3DP-25-4A.

Highest Frequency: 480MHz

Test Voltage : DC 24V From Adapter with AC 120V/60Hz

AC Adapter : Input: AC100-240V, 50/60Hz, 3A

Output: 24V/9.16A Model: FSP220-AAAN1

Version number : Software version: UP 2.1. 4 Hardware version: V38

Trademark : N/A

Applicant : Beijing TierTime Technology Co. Ltd

Address : No.18 Yanqi Avenue, Yanqi Economic Development Area, Huairou

District, Beijing, 101407, P. R. China

Manufacturer : Beijing TierTime Technology Co. Ltd

Address : No.18 Yanqi Avenue, Yanqi Economic Development Area, Huairou

District, Beijing, 101407, P. R. China

Sample Type : Prototype production

2.1.T

est mode Description

Test Mode
Standby mode
Working
Exchange data with PC.

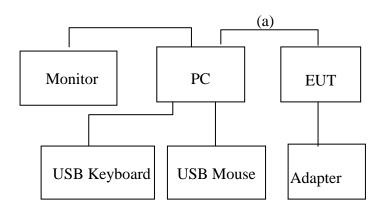
Note: 3. is worst case mode for, so this report only reflected the worst mode.

2.2.Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1.	Personal Computer	DELL	D11M	CN-0LV772-C0887-378-H8UR
2.	Monitor	DELL	E2014Hf	CN-011HFV-72872-397-CHEM
3.	USB Keyboard	ACER	SK-9625	KBUSB1580500037E0100
4.	USB Mouse	ACER	MS.11200.01 4	M-UAY-ACR2

2.3. Block Diagram of connection between EUT and simulators

For EMI Tests



Signal Cable Description of the above Support Units									
No. Port Name Cable		Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)				
(a).	USB Port	USB Cable	150CM	Yes	Yes				

※ EUT: UP BOX

2.4. Test Facility

2.4.1. Laboratory Name:

Alpha Product Testing Laboratory

2.4.2. Site Location:

Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China

2.4.3. Test Facility

 $November 11,\, 2014\ File\ on\ Federal\ Communication\ Commission$

Registration Number: 203110

July 18, 2014 Certificated by IC Registration Number: 12135A

2.5. Measurement Uncertainty

(95% confidence levels, k=2)

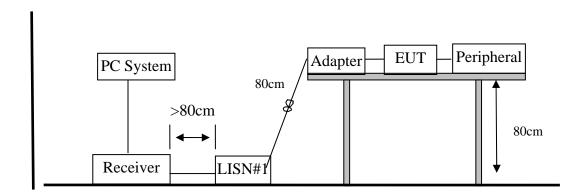
Test Item	Uncertainty		
Uncertainty for Conduction emission test	2.70dB		
	3.90 dB (Distance:		
Uncertainty for Radiation Emission test	3m Polarize: V)		
(<1G)	3.92 dB (Distance:		
	3m Polarize: H)		
	4.26 dB (Distance:		
Uncertainty for Radiation Emission	3m Polarize: V)		
test(>1G)	4.28 dB (Distance:		
	3m Polarize: H)		

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde &	ESCI	101165	2015.01.19	1 Year
		Schwarz				
2.	L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2015.01.19	1 Year
3.	L.I.S.N.#2	ROHDE&SCH	ENV216	101043	2015.01.19	1 Year
		WARZ				
4.	Pulse Limiter	Schwarzbeck	9516F	9618	2015.01.19	1 Year
5	Cable	Resenberger	SUCOFLEX	MY6562/4	2015.01.19	1 Year
			104			

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	$dB(\mu V)$	$dB(\mu V)$			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Notes: 1. Emission level=Read level+LISN factor-Preamp factor+Cable loss

- 2* Decreasing linearly with logarithm of frequency.
- 3. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (Exchange data with PC.) and 15 minutes after taking the test.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The test results are listed in next pages.

Note: If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

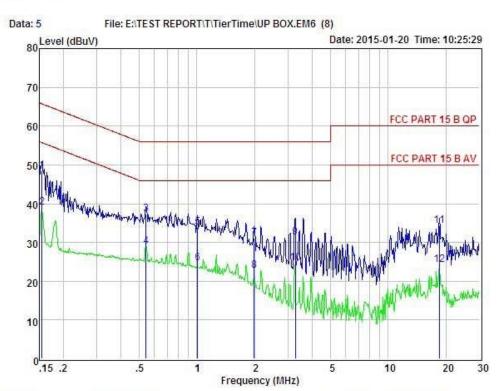
Temperature: 20.1°C Humidity: 45%

The details of test mode is as follows:

N	lo.	Test Mode						
1	1.	Exchange data with PC.						
l	Note: This mode is worst case mode, so this report only							
	reflected the worst mode.							



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Condition : FCC PART 15 B QF POL: LINE Temp:20.1 °C Hum:45 %

: UP BOX EUT Model No : 3DP-25-4A

Test Mode

: Excharge data with PC : DC 24V From Adapter With AC 120V/60Hz Power

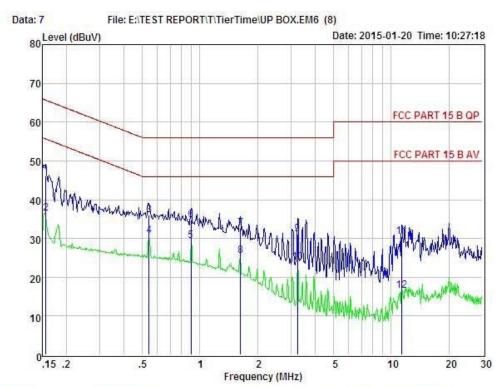
Test Engineer: Eric Remark

Iten	Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
								* ****	
1	0.155	38.72	0.03	-9.72	0.10	48.57	65.74	-17.17	QP
2	0.155	29.20	0.03	-9.72	0.10	39.05	55.74	-16.69	Average
3	0.541	27.38	0.03	-9.72	0.10	37.23	56.00	-18.77	QP
4	0.541	19.16	0.03	-9.72	0.10	29.01	46.00	-16.99	Average
5	1.010	23,94	0.04	-9.71	0.10	33.79	56.00	-22.21	QP
6	1.010	14.91	0.04	-9.71	0.10	24.76	46.00	-21.24	Average
7	1.991	21.20	0.06	-9.70	0.10	31.06	56.00	-24.94	QP
8	1.991	12.80	0.06	-9.70	0.10	22.66	46.00	-23.34	Average
9	3.276	21.47	0.07	-9.69	0.12	31.35	56.00	-24.65	QP
10	3.276	14.89	0.07	-9.69	0.12	24.77	46.00	-21.23	Average
11	18.622	24.17	0.30	-9.46	0.33	34.26	60.00	-25.74	QP
12	18.622	14.08	0.30	-9.46	0.33	24.17	50.00	-25.83	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



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Condition : FCC PART 15 B QF POL: NEUTRAL Temp:20.1 °C Hum:45 %

: UP BOX EUT Model No : 3DP-25-4A

Test Mode

: Excharge data with PC : DC 24V From Adapter With AC 120V/60Hz Power

Test Engineer: Eric Remark

Iter	req	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.156	36.31	0.03	-9.72	0.10	46.16	65.65	-19.49	QP
2	0.156	26.69	0.03	-9.72	0.10	36.54	55.65	-19.11	Average
3	0.541	26.26	0.03	-9.72	0.10	36.11	56.00	-19.89	QP
4	0.541	20.89	0.03	-9.72	0.10	30.74	46.00	-15.26	Average
5	0.899	19.53	0.04	-9.71	0.10	29,38	46.00	-16.62	Average
6	0.899	24.91	0.04	-9.71	0.10	34.76	56.00	-21.24	QP
7	1.628	22.72	0.05	-9.71	0.10	32.58	56.00	-23.42	QP
8	1.628	15.63	0.05	-9.71	0.10	25.49	46.00	-20.51	Average
9	3.241	21.26	0.07	-9.69	0.12	31.14	56.00	-24.86	QP
10	3.241	13.86	0.07	-9.69	0.12	23.74	46.00	-22.26	Average
11	11.317	20.45	0.24	-9.48	0.22	30.39	60.00	-29.61	QP
12	11.317	6.66	0.24	-9.48	0.22	16.60	50.00	-33.40	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

4. RADIATED EMISSION TEST

4.1. Test Equipment

4.1.1.For frequency range 30MHz~1000MHz (At Semi Anechoic Chamber)

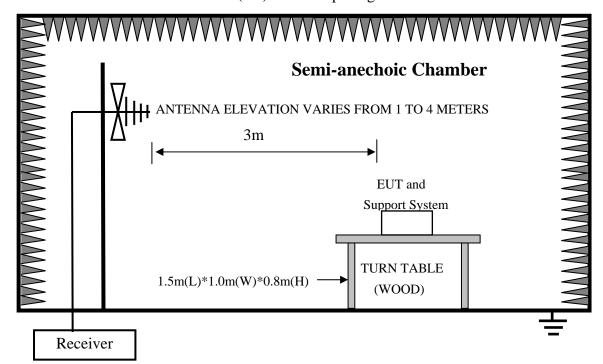
For frequency range 30MHz~1GHz (At Semi Anechoic Chamber)									
Item	Item Equipment Manufacturer Model No. Serial No. Last Cal. Cal.								
1	Test Receiver	Rohde&Schwarz	ESCI	101165	2015.01.19	1 Year			
2	Amplifier	QuieTek	AP/0100A	CHM0506005	2014.11.17	1 Year			
3	Bilog Antenna	Schwarzbeck	VULB 9168	9168-438	2014.01.22	1 Year			
4	Cable	Resenberger	SUCOFLE	309972/4	2015.01.19	1 Year			
			X 104						

4.1.2.For frequency range 1GHz~6GHz (At Semi Anechoic Chamber)

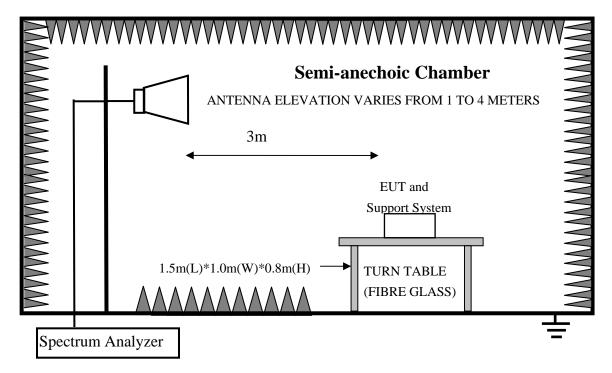
For fi	For frequency range 1GHz~5GHz (At Semi Anechoic Chamber)									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval				
1	Spectrum Analyzer	Agilent	E4407B	MY49510055	2015.01.19	1 Year				
2	Horn Antenna	Schwarzbeck	BBHA 9120	BBHA 9120	2014.01.22	1 Year				
2	Horn Amemia	Schwarzbeck	D	D(1201)		1 1 Cai				
3	Amplifier	Quietek	AP-180C	CHM-0602012	2015.01.19	1 Year				
4	Cable	Resenberger	SUCOFLEX	329112/4	2015.01.19	1 Year				
			104							

4.2. Block Diagram of Test Setup

4.2.1. In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



4.2.2. In Semi Anechoic Chamber (3m) Test Setup Diagram for 1-5GHz



4.3. Radiated Emission Limit

Frequency	Distance	Field Strengths Limits
MHz	(Meters)	$dB(\mu V)/m$
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
1000 ~ 5000	3	74(Peak) 54(Average)

Remark: (1) Emission level = Read level+Antenna Factor-Preamp Factor +Cable Loss

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4.1. Support Equipments: As Tested Supporting System Detail, in Section 2.2.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3.Let the EUT work in test mode (Exchange data with PC.) and 15 minutes after taking the test.

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4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on Radiated Emission test.

The bandwidth setting on the test receiver (ROHDE&SCHWARZ TEST RECEIVER ESCI) is 120 kHz.

The resolution bandwidth of the Agilent Spectrum Analyzer E4407B was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 5GHz was checked with peak and average detector, measurement distance is 3m in 3m chamber.

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.7.

4.7. Radiated Disturbance Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

For frequency range 30MHz~1000MHz

The test results are listed in next pages.

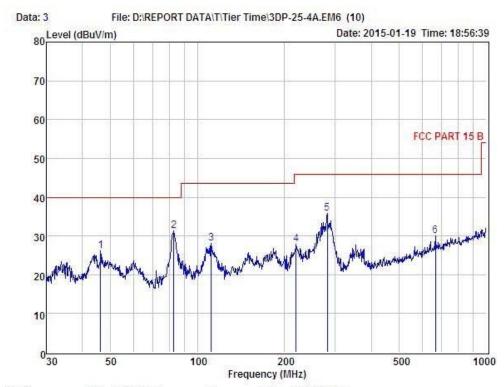
Temperature: 24.2°C Humidity: 54%

The details of test mode is as follows:

No.	Test Mode						
1.	Exchange data with PC.						
Note: This mode is worst case mode, so this report only							
	reflected the worst mode.						



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Website: http://www.a-lab.cn



Condition : FCC PART 15 B 3m POL: HORIZONTAL

EUT : UP BOX
Model No : 3DP-25-4A

Test Mode : Excharge data with PC

Fower : DC 24V From Adapter With AC 120V/60Hz

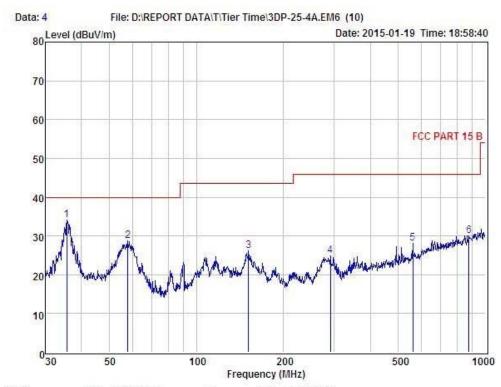
Test Engineer : Eric Remark : Temp : 24.2℃ Hum : 54%

	4.7								
Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	46,18	44.32	13.65	31.85	0.06	26.18	40.00	-13.82	Peak
2	82.94	53.31	9.35	31.53	0.23	31.36	40.00	-8.64	Peak
3	111.74	47.78	11.32	31.34	0.44	28.20	43.50	-15.30	Peak
4	219.84	47.49	10.64	30.86	0.67	27.94	46.00	-18.06	Peak
5	281.01	53.60	12.41	30.62	0.53	35.92	46.00	-10.08	Peak
6	665.80	39.23	19.28	29.31	0.85	30.05	46.00	-15.95	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Website: http://www.a-lab.cn



Condition : FCC PART 15 B 3m POL: VERTICAL

EUT : UP BOX
Model No : 3DP-25-4A

Test Mode : Excharge data with PC

Power ; DC 24V From Adapter With AC 120V/60Hz

Test Engineer : Eric Remark : Temp : 24.2℃ Hum : 54%

	4.7								
Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	35.62	52.53	13.39	31.94	0.11	34.09	40.00	-5.91	Peak
2	58.00	47.37	12.91	31.77	0.23	28.74	40.00	-11.26	Peak
3	151.60	42.68	14.16	31.18	0.42	26.08	43.50	-17.42	Peak
4	291.04	42.15	12.62	30.59	0.61	24.79	46.00	-21.21	Peak
5	560.69	38.90	17.56	29.47	1.05	28.04	46.00	-17.96	Peak
6	878.32	36.32	21.35	29.17	1.59	30.09	46.00	-15.91	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

For frequency range 1GHz~5GHz

The test results are listed in next pages.

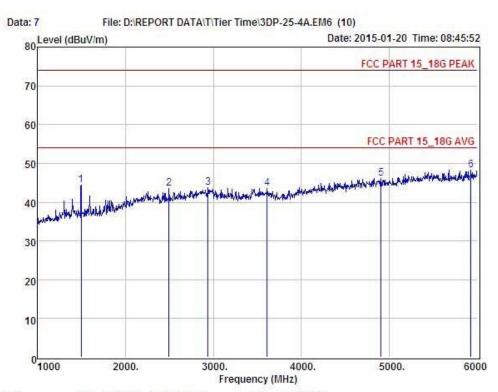
Temperature: 24.2°C Humidity: 54%

The details of test mode is as follows:

No.	Test Mode					
1.	Exchange data with PC.					
Note: This mode is worst case mode, so this report only						



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Website: http://www.a-lab.cn



Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL

EUT : UP BOX Model No : 3DP-25-4A

Test Mode : Excharge data with PC

Fower : DC 24V From Adapter With AC 120V/60Hz

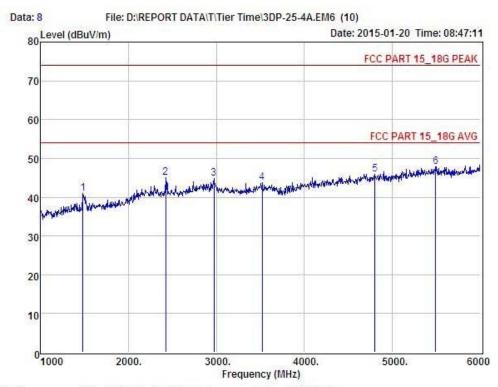
Test Engineer : Eric Remark : Temp : 24.2°C Hum : 54%

ar out		0.10							
Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	1500.00	51.37	24.90	34.78	2.88	44.37	74.00	-29.63	Peak
2	2495.00	46.91	27.58	34.97	4.01	43.53	74.00	-30.47	Peak
3	2940.00	46.25	28.09	34.98	4.38	43.74	74.00	-30.26	Peak
4	3610.00	44.63	28.81	34.88	4.93	43.49	74.00	-30.51	Peak
5	4905.00	43.13	31.43	34.11	5.76	46.21	74.00	-27.79	Peak
6	5925.00	42.92	32.65	33.69	6.37	48.25	74.00	-25.75	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Website: http://www.a-lab.cn



Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL

EUT : UP BOX
Model No : 3DP-25-4A

Test Mode : Excharge data with PC

Power ; DC 24V From Adapter With AC 120V/60Hz

Test Engineer : Eric Remark : Temp : 24.2°C Hum : 54%

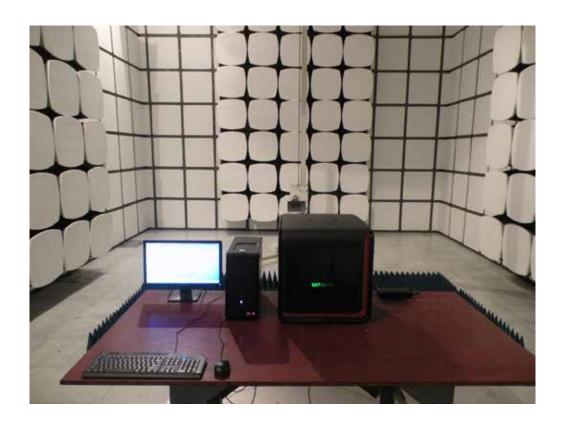
Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1485.00	47.95	24.90	34.78	2.85	40.92	74.00	-33.08	Peak
2425.00	48.35	27.61	34.97	3.95	44.94	74.00	-29.06	Peak
2975.00	47.26	28.17	34.98	4.41	44.86	74.00	-29.14	Peak
3520.00	45.22	28.55	34.90	4.86	43.73	74.00	-30.27	Peak
4800.00	43.25	31.26	34.20	5.69	46.00	74.00	-28.00	Peak
5490.00	43.53	31.86	33.62	6.13	47.90	74.00	-26.10	Peak
	MHz 1485.00 2425.00 2975.00 3520.00 4800.00	Level dBuV 1485.00 47.95 2425.00 48.35 2975.00 47.26 3520.00 45.22 4800.00 43.25	Level Factor dBuV dB 1485.00 47.95 24.90 2425.00 48.35 27.61 2975.00 47.26 28.17 3520.00 45.22 28.55 4800.00 43.25 31.26	Level Factor Factor MHz dBuV dB dB 1485.00 47.95 24.90 34.78 2425.00 48.35 27.61 34.97 2975.00 47.26 28.17 34.98 3520.00 45.22 28.55 34.90 4800.00 43.25 31.26 34.20	Level Factor Factor Loss MHz dBuV dB dB dB 1485.00 47.95 24.90 34.78 2.85 2425.00 48.35 27.61 34.97 3.95 2975.00 47.26 28.17 34.98 4.41 3520.00 45.22 28.55 34.90 4.86 4800.00 43.25 31.26 34.20 5.69	Level Factor Factor Loss MHz dBuV dB dB dB dB dBuV 1485.00 47.95 24.90 34.78 2.85 40.92 2425.00 48.35 27.61 34.97 3.95 44.94 2975.00 47.26 28.17 34.98 4.41 44.86 3520.00 45.22 28.55 34.90 4.86 43.73 4800.00 43.25 31.26 34.20 5.69 46.00	Level Factor Factor Loss MHz dBuV dB dB dB dBuV dBuV 1485.00 47.95 24.90 34.78 2.85 40.92 74.00 2425.00 48.35 27.61 34.97 3.95 44.94 74.00 2975.00 47.26 28.17 34.98 4.41 44.86 74.00 3520.00 45.22 28.55 34.90 4.86 43.73 74.00 4800.00 43.25 31.26 34.20 5.69 46.00 74.00	Level Factor Factor Loss MHz dBuV dB dB dB dB dBuV dBuV dBuV 1485.00 47.95 24.90 34.78 2.85 40.92 74.00 -33.08 2425.00 48.35 27.61 34.97 3.95 44.94 74.00 -29.06 2975.00 47.26 28.17 34.98 4.41 44.86 74.00 -29.14 3520.00 45.22 28.55 34.90 4.86 43.73 74.00 -30.27 4800.00 43.25 31.26 34.20 5.69 46.00 74.00 -28.00

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

5.1.Photos of Radiated Emission Test (In Anechoic Chamber)



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5.2.Photos of Power Line Conducted Emission Test



6. PHOTOS OF THE EUT



EUT View



EUT View



EUT View



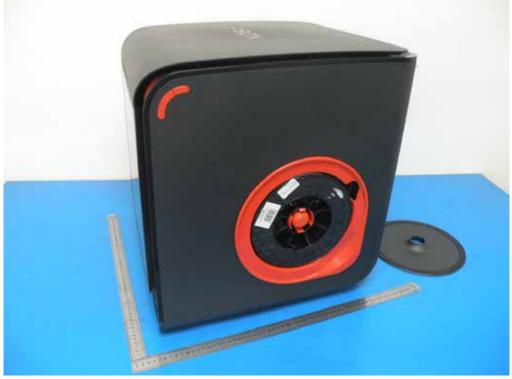
EUT View



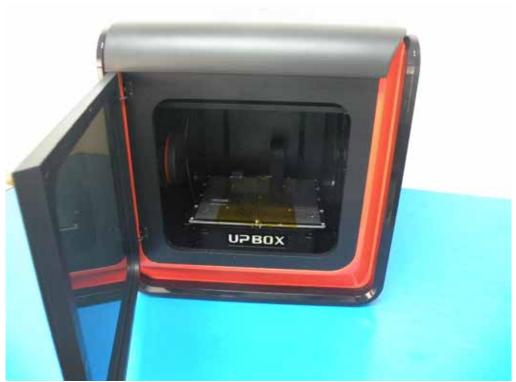
EUT View



EUT View



EUT View



EUT View



EUT View



EUT View

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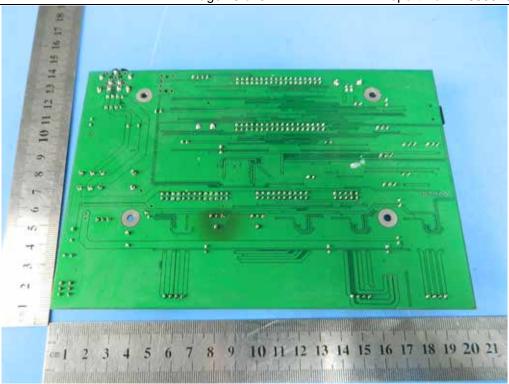


EUT View

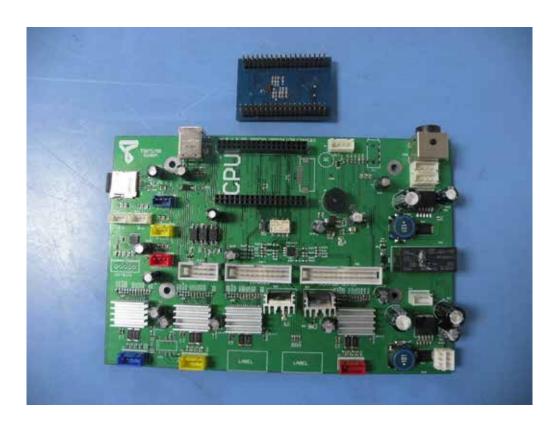


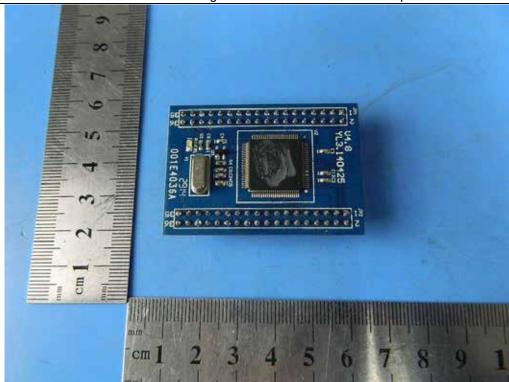
EUT View



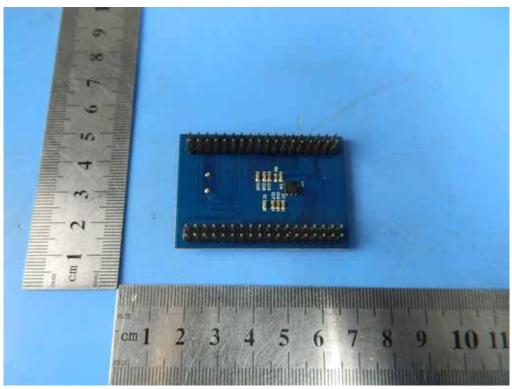


EUT View

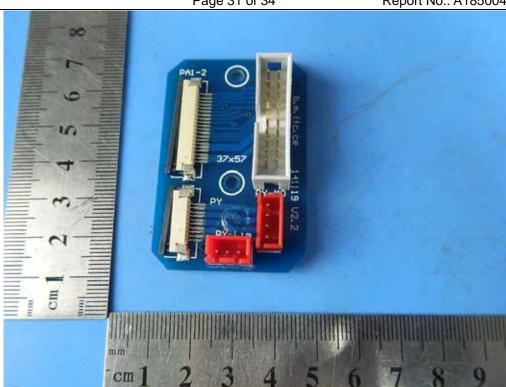




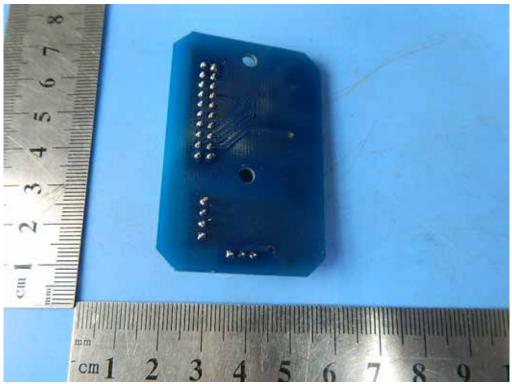
EUT View



EUT View



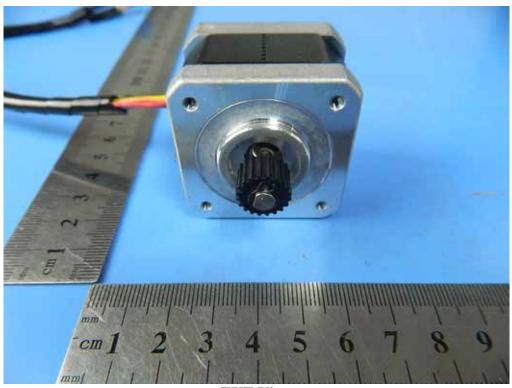
EUT View



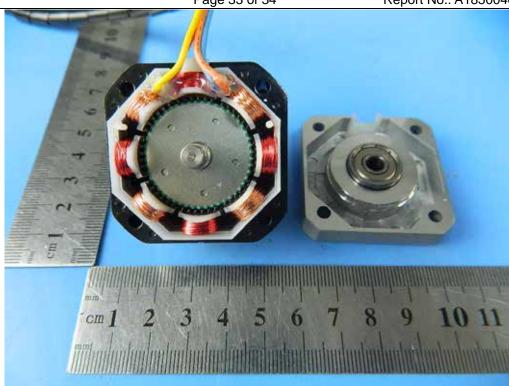
EUT View



EUT View



EUT View



EUT View



EUT View



EUT View
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