

®



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

**IQNet and
CISQ/RINA**

hereby certify that the organisation

IT-LAB GRUP S.R.L.

STRADELA STUDENTILOR 2/4, CHISINAU, REPUBLICA MOLDOVA

has implemented and maintains a

Information Security Management System

which fulfills the requirements of the following standard

ISO/IEC 27001:2013

in the following operative units

STRADELA STUDENTILOR 2/4, CHISINAU, REPUBLICA MOLDOVA

for the following field of activities

PRODUCTION AND PROVISION OF IT SERVICES

Statement of Applicability version: Ed. 1, Rev. 0 of 15.12.2016

Registration Number: IT-110540

First Issue : 2017-04-19

Current Issue : 2017-04-19

Expiry Date : 2020-04-18

The status of validity of the certificate can be verified at <http://www.cisq.com> or by e-mail to fedcisq@cisq.com



Michael Drechsel

President of IQNET



Ing. Claudio Provetti

President of CISQ

IQNet Partners:**

- AENOR Spain AFNOR Certification France Vinçotte Belgium APCER Portugal CCC Cyprus
- CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany
- FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico Inspecta Certification Finland INTECO Costa Rica
- IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland
- Quality Austria Austria RR Russia SIGE México SII Israel SIQ Slovenia SIRIM QAS International Malaysia
- SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
- IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc..

* This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

** The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

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THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

**IQNet and
CISQ/RINA**

hereby certify that the organisation

IT-LAB GRUP S.R.L.

STRADELA STUDENTILOR 2/4, CHISINAU, REPUBLICA MOLDOVA

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2015

in the following operative units

STRADELA STUDENTILOR 2/4, CHISINAU, REPUBLICA MOLDOVA

for the following field of activities

PRODUCTION AND PROVISION OF IT SERVICES

Registration Number: **IT-110541**

First Issue : 2017-04-19

Current Issue : 2017-04-19

Expiry Date : 2020-04-18

The status of validity of the certificate can be verified at <http://www.cisq.com> or by e-mail to fedcisq@cisq.com



Michael Drechsel

President of IQNET



Ing. Claudio Provetti

President of CISQ

IQNet Partners:**

AENOR Spain AFNOR Certification France Vinçotte Belgium APCER Portugal CCC Cyprus
CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico Inspecta Certification Finland INTECO Costa Rica
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland
Quality Austria Austria RR Russia SIGE México SII Israel SIQ Slovenia SIRIM QAS International Malaysia
SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc..

* This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

** The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



DINSTAR

鼎信通达

SHENZHEN DINSTAR TECHNOLOGIES CO.,LTD.

深圳市鼎信通达科技有限公司

TEL:+86-755-26456664 FAX:+86-755-26456659

地址: 中国广东省深圳市南山区常兴路国兴大厦9楼

邮编: 518052

www.dinstar.com

Manufacturer's Authorization Form

Date: 2019-09-01

To: IT-LAB GRUP S.R.L.

Str-la Studentilor 2/4 of. 313,

MD-2020, Chisinau, Moldova

+373 22 855975

Tender: ocds-b3wdp1-MD-1565023707604

Dear Sirs,

This is to confirm that Dinstar Technologies Co., Ltd., Floor 9, Guoxing Building, Changxing Road, Nanshan District, Shenzhen, China 518052, is aware of the following:

- IT-LAB GRUP S.R.L., Str-la Studentilor 2/4, MD-2020, Chisinau, Moldova (herein "Partner") intends to submit a bid on the tender ocds-b3wdp1-MD-1565023707604, Serviciul Tehnologia Informatiei și Securitate Cibernetică, MD2012, MOLDOVA, mun.Chișinău, locality, Piața Marii Adunări Naționale 1 (herein the "Customer") which includes the products (herein "Products"): **MTG2000-4E1** ; and
- If the bid is awarded to the Partner, the Partner will subsequently negotiate and sign a contract, subject exclusively to the terms and conditions between the Customer and Partner, for the supply to the Customer of an IT solution including above mentioned Products.

Dinstar Technologies Co., Ltd. acknowledges that Partner is, at the date of this letter, a non-exclusive **MTG2000-4E1** authorized Solution provider, for the sale of above mentioned Products. In the framework of the above-mentioned bid and its potential subsequent contract, Partner is acting in its own name and on its own behalf, and has no right, power or authority to create any obligation or duty, express or implied, on behalf of Dinstar Technologies Co., Ltd.

Respectfully yours,

DINSTAR TECHNOLOGIES CO., LTD

V. Fokky Lu
Authorized Signature(S)



DINSTAR

鼎信通达

SHENZHEN DINSTAR TECHNOLOGIES CO.,LTD

深圳市鼎信通达科技有限公司

TEL: +86-755-26456664 FAX: +86-755-26456659

地址: 中国广东省深圳市南山区带兴路国兴大厦9楼

邮编: 518052

www.dinstar.com

Date:2019-9-1

Dear Sir/Madam:

This letter confirms that the products (the "Products") of Dinstar Technologies Co., Ltd. are available for purchase by IT-LAB GRUP, with its principle place to business address at MD2020, str-la Studentilor, 2/4, Chisinau, Moldova ("Seller"). As of the date hereof, Seller is an authorized reseller of **MTG2000-4E1** in Moldova (the "Territory").

It should be noted that this letter does not grant Seller or any third party the exclusive right to import the Products into the Territory. All certifications and/or approvals shall be issued in the name of Dinstar Technologies Co., Ltd. and are the exclusive property of Dinstar Technologies Co., Ltd..

Respectfully yours,

For and on behalf of
DINSTAR TECHNOLOGIES CO., LTD

Vicky Lu

Authorized Signature(S)



Authorization Letter

Date: September. 02, 2019

We, **Huawei Technologies Co., Ltd.** (hereinafter referred to as **Huawei**), hereby appoints IT-LAB GRUP SRL as a Registered Partner on a non-exclusive, non-transferable and revocable basis as an authorized channel partner to purchase Products and/or Services from Authorized Source and Resell Products to End User, market and Resell one or more of Services without Added Value to End User, integrate its certain Added Value into a specific Service as partner-branded service ("Partner -branded Service") and provide it to End User within the Territory. "Within the Territory" means that End Users must deploy the Products and/or receive the Services in Moldova, Republic of.

A handwritten signature in blue ink, appearing to be the name of a legal representative, positioned above a horizontal line.

: Legal Representative of Huawei Technologies Co., Ltd.



Manufacturer's Authorization

Date: September. 02, 2019

We, **Huawei Technologies Co., Ltd.** (hereinafter referred to as **Huawei**), a company organized under the laws of P. R. China, with legal address at Administration Building, Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, P. R. China, Postal Code: 518129, and a reputable manufacturer of Servers (the "**Products**") having factories at **Shenzhen, P. R. China**, do hereby authorized

"**IT-LAB GRUP**" **S.R.L.** (hereinafter referred to as **IT Lab**), a duly organized under the laws of Moldova, with legal address at mun. Chişinău, str-la. Studentilor 2/4, 217 office, to provide Huawei's products warranty service in the Tender "Modernizarea sistemului VOIP", MTender ID: [ocds-b3wdp1-MD-1565023707604](#) (the "**Project**") organized by Serviciul Tehnologia Informaţiei și Securitate Cibernetică (located at MD2012, MOLDOVA, mun.Chişinău, locality, Piaţa Marii Adunări Naţionale 1) , according to the contract concluded between us and IT Lab for the above mentioned tender.

This Manufacture's Authorization does not in any way create a joint venture, partnership or principal-agent relationship between Huawei and IT Lab for this Project. Unless otherwise explicitly agreed to by Huawei in writing, any activity conducted by the IT Lab shall not in any event create any liabilities for Huawei.

This authorization letter is granted to IT Lab on a non-exclusive basis to bid, resell, deliver, do installation& commissioning, do warranty service with respect to the Products.

This authorization letter is referring to the Project for the territory of Moldova and it is valid till Dec 31st, 2019.

A handwritten signature in blue ink, appearing to be the name of a representative of Huawei Technologies Co., Ltd.

: Legal Representative of Huawei Technologies Co., Ltd.



Manufacturer's Authorization Form

Date: September 3, 2019

To: IT-LAB GRUP S.R.L.
Str-la Studentilor 2/4 of. 313,
MD-2020, Chisinau, Moldova
+373 22 855975

Tender: ocds-b3wdp1-MD-1565023707604

Dear Sirs,

This is to confirm that **Jerasoft LLP, Office 11, 43 Bedford Street, London, WC2E 9HA, United Kingdom**, is aware of the following:

- IT-LAB GRUP S.R.L., Str-la Studentilor 2/4, MD-2020, Chisinau, Moldova (herein "Partner") intends to submit a bid on the tender ocds-b3wdp1-MD-1565023707604, Serviciul Tehnologia Informației și Securitate Cibernetică, MD2012, MOLDOVA, mun.Chișinău, locality, Piața Marii Adunări Naționale 1 (herein the "Customer") which includes the products (herein "Products"): **VCS Billing platform**; and
- If the bid is awarded to the Partner, the Partner will subsequently negotiate and sign a contract, subject exclusively to the terms and conditions between the Customer and Partner, for the supply to the Customer of an IT solution including above mentioned Products.

Jerasoft LLP acknowledges that Partner is, at the date of this letter, a non-exclusive **VCS Billing platform** authorized Solution provider, for the sale of above mentioned Products. In the framework of the above-mentioned bid and its potential subsequent contract, Partner is acting in its own name and on its own behalf, and has no right, power or authority to create any obligation or duty, express or implied, on behalf of **Jerasoft LLP**.

Respectfully yours,



<http://jerasoft.net/>
info@jerasoft.net

Tel, UK:
+44 (203) 129-9126

Tel, US:
+1 (415) 520-7883

JERASOFT

Registration ID: OC328789

Registered address:

Office 11, 43 Bedford Street
London, WC2E 9HA
United Kingdom

E-mail: info@jerasoft.net

Tel/fax: +44 20 31299126

Dmitry Ivashina





Date: September 3, 2019

Dear Sir/Madam:

This letter confirms that the products (the “Products”) of **Jerasoft LLP** are available for purchase by IT-LAB GRUP, with its principle place to business address at MD2020, str-la Studentilor, 2/4, Chisinau, Moldova (“Seller”). . As of the date hereof, Seller is an authorized reseller of **VCS Billing platform** in Moldova (the “Territory”).

It should be noted that this letter does not grant Seller or any third party the exclusive right to import the Products into the Territory. All certifications and/or approvals shall be issued in the name of **Jerasoft LLP** and are the exclusive property of **Jerasoft LLP**.

Respectfully yours,

JERASOFT

Registration ID: OC328789
Office 11, 43 Bedford Street
London, WC2E 9HA
United Kingdom
E-mail: info@jerasoft.net
Tel/fax: +44 20 31299126

Dmitry Ivashina



<http://jerasoft.net/>
info@jerasoft.net

Tel, UK:
+44 (203) 129-9126

Tel, US:
+1 (415) 520-7883

Ministerul Economiei și Infrastructurii al Republicii Moldova
SA „TERMOELECTRICA”
MD-2024, mun. Chișinău, Str. Tudor Vladimirescu, 6
Tel: +373-22-43-64-59, fax: +373-22-49-50-97;
E-mail: anticamera@termoelectrica.md
Cod fiscal 1003600026295, cod TVA 0400008
Cod IBAN: MD91VI000000225101147MDL
BC Victoriabank SA, fil. nr. 11, Chișinău



TERMOELECTRICA S.A.

Министерство Экономики и Инфраструктуры Республики Молдова
АО „ТЕРМОЭЛЕКТРИКА”
MD-2024, мун. Кишинэу, Ул. Тудор Владимиреску, 6
Тел: +373-22-43-64-59, факс: +373-22-49-50-97
E-mail: anticamera@termoelectrica.md
Фискальный код 1003600026295, НДС 0400008
Код IBAN: MD91VI000000225101147MDL
BC Victoriabank SA, фил. № 11, Кишинэу



TIC 15 100 1710056 ISO 9001:2015

Letter of recommendation

IT-LAB GRUP SRL is our partner in the field of IT services, providing telecommunications equipment and implementation of software. During the time of cooperation, she confirmed her highest professional status, activity and competence in performing the tasks set.

All tasks are carried out on time, in strictly designated periods and with excellent quality. Employees of the company qualitatively manage their duties.

TERMOELECTRICA SA is grateful to the IT-LAB GRUP SRL for the quality of the work carried out under the project “sistem preconizat pentru audio conferință în cadrul întreprinderii și a filialelor ”Termoelectrica”S.A”.

We confirm that the services of the IT-LAB GRUP SRL correspond to a highly professional profile.

Sincerely,

Chief of Technology Services

Information and Communications

Cristinoi Vasile





Amofarm FPC
MD-2012, mun. Chişinău
Bd. Ştefan cel Mare 128
Tel./fax: (373 22) 311 108
e-mail: info@felicia.md

Scrisoare de recomandare

Prin prezenta AMOFARM SRL recomanda compania IT-LAB GRUP SRL ca fiind un partener serios, prompt, care isi indeplineste obligațiile contractuale la timp, oferind produse de calitate la preturi competitive.

Am ales sa lucram cu IT-LAB GRUP SRL ca furnizor , datorita dispoibilitatii, flexibilitatii, calitatii deosebite a serviciilor prestate. Putem confirma satisfactia noastra ca beneficiar al serviciilor de fruzniare echipament, instalare si deservire calitativa a echipamentelor si software VoIP.

Avand in vedere cele de mai sus, ne permitem sa recomandam societatea IT-LAB GRUP SRL ca fiind un colaborator profesionist si de incredere pentru orice companie cu care va relationa.

Cu stima
Colosov Alexei,
Director IT





Recommendation Letter

DONARIS VIENNA INSURANCE GROUP S.A. expresses sincere gratitude to IT-LAB GRUP for providing high-quality services in the field of information technology.

IT-LAB has established itself as a reliable partner, capable of performing work of any complexity, including the supply and configuration of telecommunications equipment, the design and implementation of local area networks, the creations and implementation of software and the integration of any complexity.

Yours sincerely,

IT CHIEF

Roman Cojocaru





Ministerul Afacerilor Interne al Republicii Moldova
Ministry of Internal Affairs of the Republic of Moldova
Serviciul tehnologiei informaționale
Information Technology Department



8/9-5984 din 06.09.2019.

Letter of recommendation

In 2016, Information Technology Department entered into an agreement with the IT-LAB GRUP SRL for providing services and goods for the implementation of VoIP infrastructure within the Ministry of Internal Affairs of the Republic of Moldova. The project was implemented according to the best practices, achieved all relevant objectives and was delivered on time. We have no complaints about the quality of the work performed.

An excellent feature of the work of IT-LAB GRUP SRL is the efficiency and high level of organization of the company's employees, the willingness to respond quickly to circumstances.

Based on the above, Information Technology Department recommends IT-LAB GRUP SRL as a reliable supplier.

Cu respect,

Director al STI a MAI

Andrian ȘOVA

Declarație dispunere de spiceliști:

Subsemnatul, Cioban Alexei reprezentant împuternicit al IT-LAB GRUP SRL în calitate de ofertant/ofertant asociat declar pe propria răspundere, sub sancțiunea excluderii din procedura de achiziție publică și sub sancțiunile aplicabile faptei de fals în acte publice, declar că copania “IT-LAB GRUP ” SRL dispune de specialiști certificate in domeniul telefoniei IP.

- **Certificate anexate**

Cioban Alexei	- Digium Certified Asterisk Administrator - dCAA
Stoyanov Alexandr	- Digium Certified Asterisk Administrator - dCAA

Nume: Cioban Alexei
Funcția în cadrul companiei: Director
Denumirea companiei: IT-LAB GRUP SRL

Semnat: _____



Alexander Stoyanov

HAS SUCCESSFULLY COMPLETED THE
DIGIUM CERTIFICATION TEST

REQUIREMENTS AND IS RECOGNIZED AS A

Digium Certified Asterisk Administrator - dCAA

A handwritten signature in blue ink, appearing to read "D Windham".

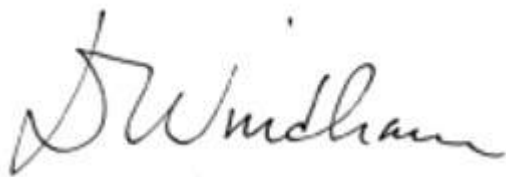
DANNY WINDHAM
PRESIDENT & CEO
DIGIUM, INC.

COMPLETION DATE:

July 4, 2019

Alexei Cioban

HAS SUCCESSFULLY COMPLETED THE
DIGIUM CERTIFICATION TEST
REQUIREMENTS AND IS RECOGNIZED AS A
Digium Certified Asterisk Administrator - dCAA



DANNY WINDHAM
PRESIDENT & CEO
DIGIUM, INC.

COMPLETION DATE:

July 4, 2019

Declarație

Subsemnatul, Cioban Alexei reprezentant împuternicit al IT-LAB GRUP SRL, în calitate de ofertant/ofertant asociat, la procedura de achiziție a serviciilor/bunurilor „Echipament telefonic (Modernizarea sistemului VOIP)”, MTender ID ocds-b3wdp1-MD-1565023707604; codul CPV 32550000-3 , organizată de Serviciul Tehnologia Informației și Securitate Cibernetică, declara:

1. Va asigura support tehnic, de nivelul 2, a solutiei propuse, pe o perioada de 3 ani
2. Va asigura support tehnic in conformitate cu regulile de prestare din anexa 1 a caietului de sarcini.
3. Va asigura garantie pentru solutie (software si hardware) -3 ani
4. Va asigura pe intreaga perioada der support inlaturarea lacunelor de Securitate ale sistemului, in cel mult o zi lucratoare.
5. Va asigura transmiterea codului sursa de program pentru dezvoltarile (customizare) efectuate in cadrul implementarii acestui proiect.
6. Va asigura aplicarea actualizarilor de program (componentele software livrate) in cel mult 30 zile lucratoare, din momentul aparitiei acestora pe intreaga perioada de support.
7. Compania IT-LAB GRUP SRL, pentru acordarea suportului tehnic clientilor, utilizeaza ticket system Redmine
8. Acordarea suportului tehnic:

Adresa, telefoane de contact și e-mail

1. Mun.Chisinau; str-la Studentilor 2/4 of 217
2. Tel de contact 069 999 975 / 022855975
3. Email: support@it-lab.md

Nume: Cioban Alexei
Funcția în cadrul companiei: Director
Denumirea companiei: IT-LAB GRUP SRL

Semnat: _____

28. martie 2017 Tarcea
Data primirii



Anexe la SNC
"Prezentarea situațiilor financiare"
Aprobat de Ministerul Finanțelor
al Republicii Moldova

SITUAȚIILE FINANCIARE

pentru perioada ANUL 2016

Entitatea IT-LAB Grup SRL 40784253
(Denumirea completă) Cod CUIIO

11011600024357
Cod IDNO

Sediul: MD 20129 mun. Chișinău 0150
Cod poștal Raionul (municipiul, UTA); Localitatea Cod CUATM

str. la Studentilor 2/4 of. 313a
strada, nr, bl.

Activitatea principală Informatica Cod CAEM, rev.2

Forma de proprietate privată

115

Cod CFP

Forma organizatorico-juridică SRL

530

Cod CFOJ

Date de contact: Tel. 069555535 e-mail dga@it-lab.md

WEB _____

Unitatea de măsură: leu

Numele și coordonatele al contabilului-șef:

DI (dna) Suzana Olga

Tel. 069555535

Anexa 8

Notă informativă privind veniturile și cheltuielile clasificate după natură

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri din vânzări	010	5669133	16749483
Alte venituri din activitatea operațională	020	100	21277
Venituri din alte activități	030	434	7304
Total venituri (rd.010 + rd.020 + rd.030)	040	5669667	16778064
Variația stocurilor	050		
Costul vânzării mărfurilor vândute	060	2432728	12430077
Cheltuieli privind stocurile	070	87151	315885
Cheltuieli cu personalul privind remunerarea muncii	080	518832	883889
Contribuții de asigurări sociale de stat obligatorii și prime de asigurare obligatorie de asistență medicală	090	142074	243070
Cheltuieli cu amortizarea și deprecierea activelor imobilizate	100	43576	61512
Alte cheltuieli	110	2085261	906142
Cheltuieli din alte activități	120		12811
Total cheltuieli (rd.050 + rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	5309622	14853386
Profit (pierdere) pînă la impozitare (rd.040 - rd.130)	140	360045	1924678
Cheltuieli privind impozitul pe venit	150	51989	231692
Profit (pierdere) net al perioadei de gestiune (rd.140 - rd.150)	160	308056	1692986

BILANȚUL

la 31.12 2016

Nr. cpt.	ACTIV	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul perioadei de gestiune
1	2	3	4	5
1.	Active imobilizate			
	Imobilizări necorporale	010	2221	1571
	Imobilizări corporale în curs de execuție	020		
	Terenuri	030		
	Mijloace fixe	040	49292	113854
	Resurse minerale	050		
	Active biologice imobilizate	060		
	Investiții financiare pe termen lung în părți neafiliate	070		
	Investiții financiare pe termen lung în părți afiliate	080		
	Investiții imobiliare	090		
	Creanțe pe termen lung	100		
	Avansuri acordate pe termen lung	110		
	Alte active imobilizate	120		
	Total active imobilizate (rd.010 + rd.020 + rd.030 + rd.040 + rd.050 + rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	51513	115425
2.	Active circulante			
	Materiale	140	53122	137373
	Active biologice circulante	150		
	Obiecte de mică valoare și scurtă durată	160	10404	35331
	Producția în curs de execuție și produse	170		
	Mărfuri	180	312322	1767976
	Creanțe comerciale	190	917787	1035103
	Creanțe ale părților afiliate	200		
	Avansuri acordate curente	210	2782	450343
	Creanțe ale bugetului	220	110104	175305
	Creanțe ale personalului	230	5395	11244
	Alte creanțe curente	240		
	Numerar în casierie și la conturi curente	250	93721	1296966
	Alte elemente de numerar	260		
	Investiții financiare curente în părți neafiliate	270		
	Investiții financiare curente în părți afiliate	280		
	Alte active circulante	290	6303	21269
	Total active circulante (rd.140 + rd.150 + rd.160 + rd.170 + rd.180 + rd.190 + rd.200 + rd.210 + rd.220 + rd.230 + rd.240 + rd.250 + rd.260 + rd.270 + rd.280 + rd.290)	300	1511940	4930910
	Total active (rd.130 + rd.300)	310	1563453	5046335



Nr. cpt.	P A S I V	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul perioadei de gestiune
1	2	3	4	5
3.	Capital propriu			
	Capital social și suplimentar	320	5400	5400
	Rezerve	330		540
	Corecții ale rezultatelor anilor precedenți	340	x	
	Profit nerepartizat (pierdere neacoperită) al anilor precedenți	350	44106	67
	Profit net (pierdere netă) al perioadei de gestiune	360	x	1692986
	Profit utilizat al perioadei de gestiune	370	x	
	Alte elemente de capital propriu	380		
	Total capital propriu (rd.320 + rd.330 + rd.340 + rd.350 + rd.360 - rd.370 + rd.380)	390	49506	1698993
4.	Datorii pe termen lung			
	Credite bancare pe termen lung	400		
	Împrumuturi pe termen lung	410		
	Datorii pe termen lung privind leasingul financiar	420		
	Alte datorii pe termen lung	430		
	Total datorii pe termen lung (rd.400 + rd.410 + rd.420 + rd.430)	440		
5.	Datorii curente			
	Credite bancare pe termen scurt	450		
	Împrumuturi pe termen scurt	460		340000
	Datorii comerciale	470	634993	1464226
	Datorii față de părțile afiliate	480		
	Avansuri primite curente	490	618208	1051662
	Datorii față de personal	500	92435	187400
	Datorii privind asigurările sociale și medicale	510	18046	54386
	Datorii față de buget	520	100862	239446
	Venituri anticipate curente	530		
	Datorii față de proprietari	540		1500
	Finanțări și încasări cu destinație specială curente	550		
	Provizioane curente	560		
	Alte datorii curente	570	49403	8722
	Total datorii curente (rd.450 + rd.460 + rd.470 + rd.480 + rd.490 + rd.500 + rd.510 + rd.520 + rd.530 + rd.540 + rd.550 + rd.560 + rd.570)	580	1513947	3347342
	Total pasive (rd.390 + rd.440 + rd.580)	590	1563453	5046335

DIRECȚIA GENERALĂ
PENTRU STATISTICĂ
28. MAR. 2017
MUNICIPIUL CRĂȘINĂU
Nr. _____

SITUAȚIA DE PROFIT ȘI PIERDERE

de la 01.01 pînă la 31.12 2016

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă-
1	2	3	4
Venituri din vânzări	010	5669133	16749483
Costul vânzărilor	020	4735292	14033266
Profit brut (pierdere brută) (rd.010 – rd.020)	030	933841	2716217
Alte venituri din activitatea operațională	040	100	21277
Cheltuieli de distribuire	050	383	26574
Cheltuieli administrative	060	542715	773045
Alte cheltuieli din activitatea operațională	070	28311	7691
Rezultatul din activitatea operațională: profit (pierdere) (rd.030 + rd.040 – rd.050 – rd.060 – rd.070)	080	362532	1930184
Rezultatul din alte activități: profit (pierdere)	090	(2487)	(5506)
Profit (pierdere) pînă la impozitare (rd.080 + rd.090)	100	360045	1924678
Cheltuieli privind impozitul pe venit	110	51989	231692
Profit net (pierdere netă) al perioadei de gestiune (rd.100 – rd.110)	120	308056	1692986

SITUAȚIA MODIFICĂRILOR CAPITALULUI PROPRIU

de la 01.01 pînă la 31.12 2016

Nr. d/o	Indicatori	Cod rd.	Sold la începutul perioadei de gestiune	Majorări	Diminuări	Sold la sfîrșitul perioadei de gestiune
1	Capital social și suplimentar					
	Capital social	010	5400			5400
	Capital suplimentar	020				
	Capital nevărsat	030	()	()	()	()
	Capital neînregistrat	040				
	Capital retras	050	()	()	()	()
	Total capital social și suplimentar (rd.010 + rd.020 + rd.030 + rd.040 + rd.050)	060	5400			5400
2	Rezerve					
	Capital de rezervă	070				
	Rezerve statutare	080		540		540
	Alte rezerve	090				
	Total rezerve (rd.070 + rd.080 + rd.090)	100		540		540
3	Profit nerepartizat (pierdere neacoperită)					
	Corecții ale rezultatelor anilor precedenți	110				
	Profit nerepartizat (pierdere neacoperită) al anilor precedenți	120	44106		44039	67
	Profit net (pierdere netă) al perioadei de gestiune	130	x	1692986		1692986
	Profit utilizat al perioadei de gestiune	140	x	()	()	()
	Rezultatul din tranziția la noile reglementări contabile	150				
	Total profit nerepartizat (pierdere neacoperită) (rd.110 + rd.120 + rd.130 + rd.140 + rd.150)	160	44106	1692986	44039	1693053
4	Alte elemente de capital propriu, din care	170				
	Diferențe din reevaluare	171				
	Subvenții entităților cu proprietate publică	172				
	Total capital propriu (rd.060 + rd.100 + rd.160 + rd.170)	180	49506	1693526	44039	1698993

Anexa 3
DIRECȚIA GENERALĂ
PENTRU STATISTICĂ

28. MAR. 2017

MUNICIPAL
DiminuăriSold la sfîrșitul
perioadei de
gestiune

SITUAȚIA FLUXURILOR DE NUMERAR

de la 01.01 pînă la 31.12 2016

Indicatori	Cod. rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Fluxuri de numerar din activitatea operațională			
Încasări din vânzări	010	5209462	18273144
Plăți pentru stocuri și servicii procurate	020	4225195	16217068
Plăți către angajați și organe de asigurare socială și medicală	030	573295	934658
Dobînzi plătite	040		
Plata impozitului pe venit	050	40922	189481
Alte încasări	060	1786	729768
Alte plăți	070	288479	795311
Fluxul net de numerar din activitatea operațională (rd.010 – rd.020 – rd.030 – rd.040 – rd.050 + rd.060 – rd.070)	080	83357	866394
Fluxuri de numerar din activitatea de investiții			
Încasări din vânzarea activelor imobilizate	090		
Plăți aferente intrărilor de active imobilizate	100		
Dobînzi încasate	110		
Dividende încasate	120		
Alte încasări (plăți)	130		
Fluxul net de numerar din activitatea de investiții (rd.090 – rd.100 + rd.110 + rd.120 ± rd.130)	140		
Fluxuri de numerar din activitatea financiară			
Încasări sub formă de credite și împrumuturi	150		790000
Plăți aferente rambursării creditelor și împrumuturilor	160		450000
Dividende plătite	170		
Încasări din operațiuni de capital	180		
Alte încasări (plăți)	190		
Fluxul net de numerar din activitatea financiară (rd.150 – rd.160 – rd.170 + rd.180 ± rd.190)	200		340000
Fluxul net de numerar total (± rd.080 ± rd.140 ± rd.200)	210	83357	1206394
Diferențe de curs valutar favorabile (nefavorabile)	220	(1375)	(3149)
Sold de numerar la începutul perioadei de gestiune	230	11739	93721
Sold de numerar la sfârșitul perioadei de gestiune (± rd.210 ± rd.220 + rd.230)	240	93721	1296966

Date generale

1. Certificat de înregistrare a entității, eliberat de Camera Înregistrării de Stat.
Număr de înregistrare 1011600024357 Data înregistrării 07.07.11 Seria MD Număr 0110151
2. Capital social înregistrat de Camera Înregistrării de Stat:
data "07" 07.2011, suma 5400 lei, inclusiv:
1) cota statului _____ lei,
2) cota deținătorilor a cel puțin 20% _____ lei.
Modificări ulterioare:
a) " " _____, suma _____ lei, inclusiv cota statului _____ lei,
b) " " _____, suma _____ lei, inclusiv cota statului _____ lei.
3. Entitățile, activitatea cărora necesită licență, indică:
Licența în vigoare:
1) Număr AC000197, data eliberării 17.04.2014
Termen de valabilitate 17.04.2019
Tipul de activitate serv. de creare, implementare și asigurare a sistem. informaționale
Organul care a eliberat licența Agencia Națională p. Reglem. în Comunicații Electr. și Tehnologii Informaționale
2) Număr _____, data eliberării _____
Termen de valabilitate _____
Tipul de activitate _____
Organul care a eliberat licența _____
3) Număr _____, data eliberării _____
Termen de valabilitate _____
Tipul de activitate _____
Organul care a eliberat licența _____
4. Numărul mediu scriptic al personalului în perioada de gestiune _____ persoane, inclusiv pe categorii:
1) personal administrativ _____ persoane,
2) muncitori _____ persoane.
5. Numărul personalului la 31 decembrie 2016 _____ 16 persoane.
6. Remunerarea personalului entității în perioada de gestiune 883889 lei.
7. Remunerarea membrilor organelor de administrare, de conducere și supraveghere și alte angajamente apărute sau asumate în legătură cu pensiile membrilor actuali sau ale foștilor membri ai acestor organe, pe categorii _____ lei.
8. Avansurile și creditele acordate membrilor organelor specificate la pct.7 _____ lei, inclusiv rambursate _____ lei.
9. Valoarea activelor imobilizate și circulante, înregistrate în calitate de gaj¹
1) valoarea de gaj _____ lei,
2) valoarea contabilă _____ lei.
10. Numărul acțiunilor ordinare la finele perioadei de gestiune _____ unități.
11. Profit net (pierdere netă) a perioadei de gestiune pentru o acțiune ordinară:
1) profit _____ lei _____ bani,
2) pierdere _____ lei _____ bani.
12. Dividende calculate pentru o acțiune ordinară pentru perioada de gestiune:
1) plătite _____ lei _____ bani,
2) planificate pentru plată _____ lei _____ bani.
13. Valută străină disponibilă, recalculată în monedă națională a Republicii Moldova – total _____ lei, inclusiv (lei, denumirea și codul valutei):
1) _____
2) _____
3) _____
14. Numerar legat – total _____ lei

¹ În rîndurile, în care se înscriu sumele de gaj, în toate coloanele prin fracție se reflectă:

a) la numărător – valoarea de gaj;
b) la numitor – valoarea contabilă

NOTĂ INFORMATIVĂ
privind relațiile cu nerezidenții

Anexa 9

Tabelul 1

Creanțe, investiții financiare și datorii pe termen lung aferente *fondatorilor* nerezidenți

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune
			Intrări/ majorări	Ieșiri/ diminuări	Diferențe de curs valutar	
1	2	3	4	5	6	7
Creanțe și investiții financiare pe termen lung – total	010					
Creanțe comerciale, <i>inclusiv pe țări:</i>	020					
-						
-						
-						
Avansuri acordate, <i>inclusiv pe țări:</i>	030		1175464	1138087	(9403)	27974
- Germania			103678	100111	(3567)	
- China			849395	811086	(283)	27974
- Czech Republic			32363	32363		
- Latvia			94306	93900	(406)	
- Canada			695774	690627	(5147)	
Împrumuturi acordate și creanțe privind leasingul financiar, <i>inclusiv pe țări:</i>	040					
-						
-						
-						
Alte creanțe și investiții financiare, <i>inclusiv pe țări:</i>	050					
-						
-						
-						
Datorii pe termen lung – total	060					
Datorii comerciale, <i>inclusiv pe țări:</i>	070		1159366	1166410	7044	
- Germania			100111	102565	2454	
- China			849395	811086	(283)	
- Czech Republic			32363	32363		
- Canada			77805	71890	(3985)	
- Latvia			93900	84247	(347)	
Avansuri primite, <i>inclusiv pe țări:</i>	080					
-						
-						
-						
Credite bancare, împrumuturi și datorii privind leasingul financiar, <i>inclusiv pe țări:</i>	090					
-						
-						
-						
Alte datorii, <i>inclusiv pe țări:</i>	100					
-						
-						
-						

Rd.010= rd.020 + rd.030 + rd.040 + rd.050

Rd.060= rd.070 + rd.080 + rd.090 + rd.100

Col.7 = col.3+col.4-col.5±col.6

Creanțe, investiții financiare și datorii pe termen lung aferente nerezidenților, *cu excepția fondatorilor*

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune
			Intrări/ majorări	Ieșiri/ diminuări	Diferențe de curs valutar	
1	2	3	4	5	6	7
Creanțe și investiții financiare pe termen lung – total	010					
Creanțe comerciale, <i>inclusiv pe țări:</i>	020					
-						
-						
-						
Avansuri acordate, <i>inclusiv pe țări:</i>	030					
-						
-						
-						
Împrumuturi acordate și creanțe privind leasingul financiar, <i>inclusiv pe țări:</i>	040					
-						
-						
-						
Depozite, <i>inclusiv pe țări:</i>	050					
-						
-						
-						
Alte creanțe și investiții financiare, <i>inclusiv pe țări:</i>	060					
-						
-						
-						
Datorii pe termen lung – total	070					
Datorii comerciale, <i>inclusiv pe țări:</i>	080					
-						
-						
-						
Avansuri primite, <i>inclusiv pe țări:</i>	090					
-						
-						
-						
Credite bancare, împrumuturi și datorii privind leasingul financiar, <i>inclusiv pe țări:</i>	100					
-						
-						
-						
Alte datorii, <i>inclusiv pe țări:</i>	110					
-						
-						
-						

Rd.010= rd.020 + rd.030 + rd.040 + rd.050 + rd.60

Rd.070= rd.080 + rd.090 + rd.100 + rd.110

Col.7 = col.3+col.4-col.5+col.6

Creanțe, investiții financiare și datorii curente aferente fondatorilor nerezidenți

Indicatori	Cod rd./cod țară	Sold la începutul perioadei de gestiune		Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune											
		La care termenul de plată nu a sosit sau este expirat până la un an	Termenul expirat mai mult de un an	Total	Intrări/majorări	Ieșiri/diminuări	Diferențe de curs valutar	La care termenul de plată nu a sosit sau este expirat până la un an	Termenul expirat mai mult de un an									
										3	4	5	6	7	8	9	10	
Creanțe și investiții financiare curente – total	2																	
Creanțe comerciale, inclusiv pe țări:	010																	
-	020																	
-																		
Avansuri acordate, inclusiv pe țări:	030																	
-																		
-																		
Împrumuturi acordate și creanțe privind leasingul financiar, inclusiv pe țări:	040																	
-																		
-																		
Alte creanțe și investiții financiare, inclusiv pe țări:	050																	
-																		
-																		
Datorii curente – total	060																	
Datorii comerciale, inclusiv pe țări:	070																	
-																		
-																		
Avansuri primite, inclusiv pe țări:	080																	
-																		
-																		
Credite bancare, împrumuturi și datorii privind leasingul financiar, inclusiv pe țări:	090																	
-																		
-																		
Datorii privind dividendele calculate, inclusiv pe țări:	100																	
-																		
-																		
Alte datorii, inclusiv pe țări:	110																	
-																		
-																		
-																		

Rd.010= rd.020 + rd.030 + rd.040 + rd.050
 Rd.060= rd.070 + rd.080 + rd.090 + rd.100 + rd.110
 Col.(9+10) = col.(3+4) + col.5 - col.7 + col.8

Creanțe, investiții financiare și datorii curente aferente nerezidenților, cu excepția fondatorilor

Indicatori	Cod rd./cod țară	Sold la începutul perioadei de gestiune		Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune							
		La care termenul de plată nu a sosit sau este expirat până la un an	Termenul expirat mai mult de un an	Total	Intrări/majorări	Transferări din active și datorii pe termen lung în active și datorii curente	Ieșiri/diminuări	Diferențe de curs valutar	La care termenul de plată nu a sosit sau este expirat până la un an	Termenul expirat mai mult de un an				
											3	4	5	6
Creanțe și investiții financiare curente - total	2													
Creanțe comerciale, inclusiv pe țări:	010													
-	020													
-														
-														
Avansuri acordate, inclusiv pe țări:	030													
-														
-														
Împrumuturi acordate și creanțe privind leasingul financiar, inclusiv pe țări:	040													
-														
-														
Depozite, inclusiv pe țări:	050													
-														
-														
Alte creanțe și investiții financiare, inclusiv pe țări:	060													
-														
-														
Datorii curente - total	070													
Datorii comerciale, inclusiv pe țări:	080													
-														
-														
Avansuri primite, inclusiv pe țări:	090													
-														
-														
Credite bancare, împrumuturi și datorii privind leasingul financiar, inclusiv pe țări:	100													
-														
-														
Alte datorii, inclusiv pe țări:	110													
-														
-														

Rd.010= rd.020 + rd.030 + rd.040 + rd.050 + rd.060
 Rd.070= rd.080 + rd.090 + rd.100 + rd.110
 Col.(9+10) = col.(3+4) + col.5 - col.7 ± col.8

Investiții financiare în străinătate și participarea nerezidenților în capitalul social

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Intrări/ majorări	Ieșiri/ diminuări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6
Investiții financiare	010				
Cote de participație și acțiuni de pînă la 10% inclusiv, în capitalul social al entităților nerezidente, inclusiv pe țări:	020				
-					
Cote de participație și acțiuni de peste 10% în capitalul social al entităților nerezidente, inclusiv pe țări:	030				
-					
Capital social	040				
Cote de participație și acțiuni de pînă la 10% inclusiv, inclusiv pe țări:	050				
-					
Cote de participație și acțiuni de peste 10%, inclusiv pe țări:	060				
-					

Rd.010= rd.020 + rd.030; Rd.040= rd.050 + rd.060; Col.6 = col.3+col.4-col.5

Venituri și cheltuieli aferente tranzacțiilor cu nerezidenții

Indicatori	Cod rd./ cod țară	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri - total	010		
Venituri aferente bunurilor procurate și vîndute peste hotare fără trecerea frontierei de stat a Republicii Moldova, inclusiv pe țări:	020		
-			
Venituri din dobînzi aferente activității operaționale și altor activități, inclusiv pe țări:	030		
-			
Venituri din dividende și participații în alte entități, inclusiv pe țări:	040		
-			
Venituri din decontarea datoriilor cu termenul de prescripție expirat, inclusiv pe țări:	050		
-			
Alte venituri, inclusiv pe țări:	060		
-			
Cheltuieli - total	070		
Cheltuieli aferente bunurilor procurate și vîndute peste hotare fără trecerea frontierei de stat a Republicii Moldova, inclusiv pe țări:	080		
-			
Cheltuieli privind dobînzile, inclusiv pe țări:	090		
-			
Cheltuieli și provizioane aferente creanțelor comerciale și altor creanțe compromise, inclusiv pe țări:	100		
-			
Alte cheltuieli, inclusiv pe țări:	110		
-			

Rd.010= rd.020 + rd.030 + rd.040 + rd.050 + rd.060; Rd.070= rd.080 + rd.090 + rd.100 + rd.110

Bunuri ale nerezidenților înregistrate în conturi extrabilanțiere

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Intrări/ diminuări	Ieșiri/ micșorări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6
Bunuri primite în baza contractelor de comision, inclusiv pe țări	010				
-					
Bunuri primite spre prelucrare, inclusiv pe țări	020				
-					
Bunuri obținute din materialele prelucrate, inclusiv pe țări	030				
-					

Col.6 = col.3+col.4-col.5



Persoanele responsabile de semnarea rapoartelor financiare ale entității*

Director: Cibacu Alexei

Contabil-șef: Șirbu Olga

conform art.36 din Legea contabilității

Anexa Informații cerute de Standardele Naționale de Contabilitate

1. Informațiile privind activele imobilizate

Indicatori	Nr. rând	Existența la începutul perioadei (la costul de intrare)	Amortizarea acumulată la începutul perioadei	Deprecierea acumulată la începutul perioadei	Intrarea în cursul perioadei (la costul de intrare)	Ieșirea în cursul perioadei (la costul de intrare)	Existența la sfârșitul perioadei (la costul de intrare)	Amortizarea acumulată la sfârșitul perioadei	Deprecierea acumulată la sfârșitul perioadei
	1	2	3	4	5	6	7	8	9
A									
1. Imobilizări necorporale în curs de execuție	100								
2. Imobilizări necorporale în utilizare, total	200	3250	1029				3250	1679	
inclusiv:									
2.1. brevete și mărci	210								
2.2. licențe de activitate	220								
2.3. programe informatice	230								
3. Imobilizări corporale în curs de execuție	300								
4. Terenuri	400		x						
5. Mijloace fixe, total	500	130860	81568		125424		256284	142430	
din care:									
5.1. clădiri	510								
5.2. construcții speciale	520								
5.3. mașini, utilaje, instalații de transmisie	530	130860	81568		125424		256284	142430	
inclusiv:									
5.3.1. tehnică de calcul	531								
5.4. mijloace de transport	540								
5.5. instrumente și inventar	550								
5.6. costuri ulterioare aferente obiectelor neînregistrate în bilanț	560								
5.7. mijloace fixe primite în leasing financiar	570								
5.8. mijloace fixe primite în gestiune economică	580								
5.9. alte mijloace fixe	590								
6. Resurse minerale	600								
7. Investiții imobiliare, total	700								

rd.200>= rd.210+ rd.220+ rd.230 rd.500>= rd.510+ rd.520+ rd.530+ rd.540+ rd.550+ rd.560+ rd.570+ rd.580+ rd.590 rd.530>= rd.531
col.2 + col.5 - col.6 = col.7

Formule de control dintre Anexa și Bilanțul: rd.100 col.(2-3-4) + rd.200 col.(2-3-4) = rd.010 col.4

rd.100 col.(7-8-9) + rd.200 col.(7-8-9) = rd.010 col.5
rd.300 col.(2-3-4) = rd.020 col.4
rd.300 col.(7-8-9) = rd.020 col.5
rd.400 col.(2-3-4) = rd.030 col.4
rd.400 col.(7-8-9) = rd.030 col.5
rd.500 col.(2-3-4) = rd.040 col.4
rd.500 col.(7-8-9) = rd.040 col.5
rd.600 col.(2-3-4) = rd.050 col.4
rd.600 col.(7-8-9) = rd.050 col.5
rd.700 col.(2-3-4) = rd.090 col.4
rd.700 col.(7-8-9) = rd.090 col.5

SITUAȚIILE FINANCIARE

pentru perioada 01.01.2017 31.12.2017

Entitatea IT-LAB GRUP SRL
(Denumirea completă)

40784253 1011600024357
(Cod CUIIO) (Cod IDNO)

Sediul: MD MD-2020 MUN.CHIȘINĂU; MUN.CHIȘINĂU SEC.RÎȘCANI 150
(Cod poștal) Raionul (municipiul, UTA); Localitatea
str-la Studentilor , 2/4 of.217, , of. Cod CUATM

Activitatea principală: strada, nr, bl.
Activitati de consultanta in tehnologia informatiei J6202
Cod CAEM, rev.2

Forma de proprietate: Proprietate privată 15
Cod CFP

Forma organizatorico-juridică: SOCIETATI CU RASPUNDERE LIMITATA 530
Cod CFOJ

Date de contact: Tel. +37369555535 e-mail olga@it-lab.md
WEB: _____

Numele și coordonatele al contabilului-șef: Dl (dna) +37369555535 Unitatea de măsură: leu
Tel. +37369555535

Anexa 8

Notă informativă privind veniturile și cheltuielile clasificate după natură

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri din vânzări	010	16.749.483	18.586.309
Alte venituri din activitatea operațională	020	21.277	911
Venituri din alte activități	030	7.305	4.706
Total venituri (rd.010 + rd.020 + rd.030)	040	16.778.065	18.591.926
Variația stocurilor	050		
Costul vânzărilor	060	12.430.077	12.462.750
Cheltuieli privind stocurile	070	315.885	450.706
Cheltuieli cu personalul privind remunerarea muncii	080	883.889	1.259.683
Contribuții de asigurări sociale de stat obligatorii și prime de asigurare obligatorie de asistență medicală	090	243.070	346.413
Cheltuieli cu amortizarea și deprecierea activelor imobilizate	100	61.512	91.283
Alte cheltuieli	110	906.143	1.155.878
Cheltuieli din alte activități	120	12.811	25.219
Total cheltuieli (rd.050 + rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	14.853.387	15.791.932
Profit (pierdere) pînă la impozitare (rd.040 – rd.130)	140	1.924.678	2.799.994
Cheltuieli privind impozitul pe venit	150	231.692	346.824
Profit (pierdere) net al perioadei de gestiune (rd.140 – rd.150)	160	1.692.986	2.453.170

BILANȚUL

la 31.12.2017

Nr. cpt.	ACTIV	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul perioadei de gestiune
1	2	3	4	5
1.	Active imobilizate			
	Imobilizări necorporale	010	1.571	61.555
	Imobilizări corporale în curs de execuție	020		19.285
	Terenuri	030		
	Mijloace fixe	040	113.854	820.747
	Resurse minerale	050		
	Active biologice imobilizate	060		
	Investiții financiare pe termen lung în părți neafiliate	070		
	Investiții financiare pe termen lung în părți afiliate	080		
	Investiții imobiliare	090		
	Creanțe pe termen lung	100		
	Avansuri acordate pe termen lung	110		
	Alte active imobilizate	120		
	Total active imobilizate (rd.010 + rd.020 + rd.030 + rd.040 + rd.050 + rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	115.425	901.587
2.	Active circulante			
	Materiale	140	137.373	94.851
	Active biologice circulante	150		
	Obiecte de mică valoare și scurtă durată	160	35.331	87.117
	Producția în curs de execuție și produse	170		
	Mărfuri	180	1.767.976	1.970.772
	Creanțe comerciale	190	1.035.103	878.668
	Creanțe ale părților afiliate	200		
	Avansuri acordate curente	210	450.343	236.224
	Creanțe ale bugetului	220	175.305	174.152
	Creanțe ale personalului	230	11.244	5.880
	Alte creanțe curente	240		126.736
	Numerar în casierie și la conturi curente	250	1.296.966	458.035
	Alte elemente de numerar	260		
	Investiții financiare curente în părți neafiliate	270		
	Investiții financiare curente în părți afiliate	280		
	Alte active circulante	290	21.269	126.521
	Total active circulante (rd.140 + rd.150 + rd.160 + rd.170 + rd.180 + rd.190 + rd.200 + rd.210 + rd.220 + rd.230 + rd.240 + rd.250 + rd.260 + rd.270 + rd.280 + rd.290)	300	4.930.910	4.158.956
	Total active (rd.130 + rd.300)	310	5.046.335	5.060.543

Nr. cpt.	P A S I V	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul perioadei de gestiune
1	2	3	4	5
3.	Capital propriu			
	Capital social și suplimentar	320	5.400	5.400
	Rezerve	330	540	540
	Corecții ale rezultatelor anilor precedenți	340	X	
	Profit nerepartizat (pierdere neacoperită) al anilor precedenți	350		
			1.693.053	4.907
	Profit net (pierdere netă) al perioadei de gestiune	360	X	2.453.170
	Profit utilizat al perioadei de gestiune	370	X	
	Alte elemente de capital propriu	380		
	Total capital propriu (rd.320 + rd.330 + rd.340 + rd.350 + rd.360 - rd.370 + rd.380)	390		
			1.698.993	2.464.017
4.	Datorii pe termen lung			
	Credite bancare pe termen lung	400		
	Împrumuturi pe termen lung	410		
	Datorii pe termen lung privind leasingul financiar	420		
	Alte datorii pe termen lung	430		
	Total datorii pe termen lung (rd.400 + rd.410 + rd.420 + rd.430)	440		
5.	Datorii curente			
	Credite bancare pe termen scurt	450		
	Împrumuturi pe termen scurt	460	340.000	163.000
	Datorii comerciale	470	1.464.226	839.814
	Datorii față de părțile afiliate	480		
	Avansuri primite curente	490	1.051.662	1.044.745
	Datorii față de personal	500	187.400	98.000
	Datorii privind asigurările sociale și medicale	510	54.386	23.176
	Datorii față de buget	520	239.446	298.773
	Venituri anticipate curente	530		
	Datorii față de proprietari	540	1.500	7.200
	Finanțări și încasări cu destinație specială curente	550		
	Provizioane curente	560		
	Alte datorii curente	570	8.722	121.818
	Total datorii curente (rd.450 + rd.460 + rd.470 + rd.480 + rd.490 + rd.500 + rd.510 + rd.520 + rd.530 + rd.540 + rd.550 + rd.560 + rd.570)	580		
			3.347.342	2.596.526
	Total pasive (rd.390 + rd.440 + rd.580)	590	5.046.335	5.060.543

SITUAȚIA DE PROFIT ȘI PIERDERE

de la 01.01.2017 pînă la 31.12.2017

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri din vânzări	010	16.749.483	18.586.309
Costul vânzărilor	020	14.033.266	14.337.488
Profit brut (pierdere brută) (rd.010 – rd.020)	030	2.716.217	4.248.821
Alte venituri din activitatea operațională	040	21.277	911
Cheltuieli de distribuire	050	26.574	30.102
Cheltuieli administrative	060	773.045	1.352.028
Alte cheltuieli din activitatea operațională	070	7.691	47.095
Rezultatul din activitatea operațională: profit (pierdere) (rd.030 + rd.040 – rd.050 – rd.060 – rd.070)	080	1.930.184	2.820.507
Rezultatul din alte activități: profit (pierdere)	090	-5.506	-20.513
Profit (pierdere) pînă la impozitare (rd.080 + rd.090)	100	1.924.678	2.799.994
Cheltuieli privind impozitul pe venit	110	231.692	346.824
Profit net (pierdere netă) al perioadei de gestiune (rd.100 – rd.110)	120	1.692.986	2.453.170

Anexa 3

SITUAȚIA MODIFICĂRILOR CAPITALULUI PROPRIU

de la 01.01.2017 pînă la 31.12.2017

Nr. d/o	Indicatori	Cod rd.	Sold la începutul perioadei de gestiune	Majorări	Diminuări	Sold la sfîrșitul perioadei de gestiune
1	2	3	4	5	6	7
1	Capital social și suplimentar					5.400
	Capital social	010	5.400			
	Capital suplimentar	020				
	Capital nevărsat	030	0	0	0	0
	Capital neînregistrat	040				
	Capital retras	050	0	0	0	0
	Total capital social și suplimentar (rd.010 + rd.020 + rd.030 + rd.040 + rd.050)	060	5.400			5.400
2	Rezerve					
	Capital de rezervă	070				540
	Rezerve statutare	080	540			
	Alte rezerve	090				
	Total rezerve (rd.070 + rd.080 + rd.090)	100	540			540
3	Profit nerepartizat (pierdere neacoperită)					
	Corecții ale rezultatelor anilor precedenți	110			1.688.146	4.907
	Profit nerepartizat (pierdere neacoperită) al anilor precedenți	120	1.693.053			
	Profit net (pierdere netă) al perioadei de gestiune	130	X	2.453.170		2.453.170
	Profit utilizat al perioadei de gestiune	140	X	0	0	0
	Rezultatul din tranziția la noile reglementări contabile	150				
	Total profit nerepartizat (pierdere neacoperită) (rd.110 + rd.120 + rd.130 + rd.140 + rd.150)	160	1.693.053	2.453.170	1.688.146	2.458.077
4	Alte elemente de capital propriu, din care	170				
	Diferențe din reevaluare	171				
	Subvenții entităților cu proprietate publică	172				
	Total capital propriu (rd.060 + rd.100 + rd.160 + rd.170)	180	1.698.993	2.453.170	1.688.146	2.464.017

SITUAȚIA FLUXURILOR DE NUMERARde la 01.01.2017 pînă la 31.12.2017

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Fluxuri de numerar din activitatea operațională			
Încasări din vânzări	010	18.273.144	20.163.158
Plăți pentru stocuri și servicii procurate	020	16.217.068	15.997.561
Plăți către angajați și organe de asigurare socială și medicală	030	934.658	1.585.113
Dobînzi plătite	040		
Plata impozitului pe venit	050	189.481	632.847
Alte încasări	060	729.768	1.011.589
Alte plăți	070	795.311	3.602.612
Fluxul net de numerar din activitatea operațională (rd.010 – rd.020 – rd.030 – rd.040 – rd.050 + rd.060 – rd.070)	080	866.394	-643.386
Fluxuri de numerar din activitatea de investiții			
Încasări din vânzarea activelor imobilizate	090		
Plăți aferente intrărilor de active imobilizate	100		
Dobînzi încasate	110		
Dividende încasate	120		
Alte încasări (plăți)	130		
Fluxul net de numerar din activitatea de investiții (rd.090 – rd.100 + rd.110 + rd.120 ± rd.130)	140		
Fluxuri de numerar din activitatea financiară			
Încasări sub formă de credite și împrumuturi	150	790.000	870.000
Plăți aferente rambursării creditelor și împrumuturilor	160	450.000	1.047.000
Dividende plătite	170		
Încasări din operațiuni de capital	180		
Alte încasări (plăți)	190		
Fluxul net de numerar din activitatea financiară (rd.150 – rd.160 – rd.170 + rd.180 ± rd.190)	200	340.000	-177.000
Fluxul net de numerar total (± rd.080 ± rd.140 ± rd.200)	210	1.206.394	-820.386
Diferențe de curs valutar favorabile (nefavorabile)	220	-3.149	-18.545
Sold de numerar la începutul perioadei de gestiune	230	93.721	1.296.966
Sold de numerar la sfârșitul perioadei de gestiune (± rd.210 ± rd.220 + rd.230)	240	1.296.966	458.035

Date generale

1. Certificat de înregistrare a entității, eliberat de Camera Înregistrării de Stat.

Număr de înregistrare 10116000243 Data înregistrării 07.07.2011 Seria MD Număr 0110151

57

2. Capital social înregistrat de Camera Înregistrării de Stat:

data 07.07.2011, suma 5.400 lei, inclusiv:

1) cota statului _____ lei,

2) cota deținătorilor a cel puțin 20% _____ lei,

Modificări ulterioare:

a) _____, suma _____ lei, inclusiv cota statului _____ lei,

b) _____, suma _____ lei, inclusiv cota statului _____ lei,

3. Entitățile, activitatea cărora necesită licență, indică:

Licența în vigoare:

1) Număr AC000197, data eliberării 2014-04-17 00:00:00

Termen de valabilitate 17.04.2019

Tipul de activitate Servicii de creare, implementare și asigurare a sistemelor
informationaleOrganul care a eliberat licența Agenția Națională pentru Reglementare în
Comunicații Electrice și Tehnologii
Informationale

4. Numărul mediu scriptic al personalului în perioada de gestiune 15 persoane, inclusiv pe categorii:

1) personal administrativ _____ persoane,

2) muncitori _____ persoane,

5. Numărul personalului la 31.12.2017 17 persoane.

6. Remunerarea personalului entității în perioada de gestiune 1.349.083 lei.

7. Remunerarea membrilor organelor de administrare, de conducere și supraveghere și alte angajamente apărute sau asumate în legătură
cu pensiile membrilor actuali sau ale foștilor membri ai acestor organe, pe categorii _____ lei.

8. Avansurile și creditele acordate membrilor organelor specificate la pct.7 _____ lei, inclusiv rambursate _____ lei.

9. Valoarea activelor imobilizate și circulante, înregistrate în calitate de gaj¹

1) valoarea de gaj _____ lei,

2) valoarea contabilă _____ lei.

10. Numărul acțiunilor ordinare la finele perioadei de gestiune _____ unități.

11. Profit net (pierdere netă) a perioadei de gestiune pentru o acțiune ordinară:

1) profit _____ lei,

2) pierdere _____ lei.

12. Dividende calculate pentru o acțiune ordinară pentru perioada de gestiune:

1) plătite _____ lei,

2) planificate pentru plată _____ lei.

13. Valută străină disponibilă, recalculată în monedă națională a Republicii Moldova – total _____ lei,

inclusiv (lei, denumirea și codul valutei):

) _____ codul valutei _____

14. Numerar legat – total _____ lei.

În rîndurile, în care se înscriu sumele de gaj, în toate coloanele
prin fracție se reflectă:

a) la numărător – valoarea de gaj;

b) la numitor – valoarea contabilă

NOTĂ INFORMATIVĂ
privind relațiile cu nerezidenții

Tabelul 1

Creanțe, investiții financiare și datorii pe termen lung aferente *fondatorilor* nerezidenți

Indicatori	Cod rd/ cod țară	Sold la începutul perioadei de gestiune	Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune
			Intrări/ majorări	Ieșiri/ diminuări	Diferențe de curs valutar	
1	2	3	4	5	6	7
Creanțe și investiții financiare pe termen lung – total	010	0	0	0	0	0
Creanțe comerciale, <i>inclusiv pe țări:</i>	020					
Avansuri acordate, <i>inclusiv pe țări:</i>	030	0	0	0	0	0
Imprumuturi acordate și creanțe privind leasingul financiar, <i>inclusiv pe țări:</i>	040					
Alte creanțe și investiții financiare, <i>inclusiv pe țări:</i>	050					
Datorii pe termen lung – total	060	0	0	0	0	0
Datorii comerciale, <i>inclusiv pe țări:</i>	070					
Avansuri primite, <i>inclusiv pe țări:</i>	080					
Credite bancare, imprumuturi și datorii privind leasingul financiar, <i>inclusiv pe țări:</i>	090					
Alte datorii, <i>inclusiv pe țări:</i>	100					

Creanțe, investiții financiare și datorii pe termen lung aferente nerezidenților, *cu excepția fondatorilor*

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune
			Intrări/ majorări	Ieșiri/ diminuări	Diferențe de curs valutar	
1	2	3	4	5	6	7
Creanțe și investiții financiare pe termen lung – total	010					
Creanțe comerciale, <i>inclusiv pe țări:</i>	020					
Avansuri acordate, <i>inclusiv pe țări:</i>	030					
Împrumuturi acordate și creanțe privind leasingul financiar, <i>inclusiv pe țări:</i>	040					
Depozite, <i>inclusiv pe țări:</i>	050					
Alte creanțe și investiții financiare, <i>inclusiv pe țări:</i>	060					
Datorii pe termen lung – total	070					
Datorii comerciale, <i>inclusiv pe țări:</i>	080					
Avansuri primite, <i>inclusiv pe țări:</i>	090					
Credite bancare, împrumuturi și datorii privind leasingul financiar, <i>inclusiv pe țări:</i>	100					
Alte datorii, <i>inclusiv pe țări:</i>	110					

Investiții financiare în străinătate și participarea nerezidenților în capitalul social

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Intrări/ majorări	Ieșiri/ diminuări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6
Investiții financiare	010				
Cote de participație și acțiuni de până la 10% inclusiv, în capitalul social al entităților nerezidente, <i>inclusiv pe țări:</i>	020				
Cote de participație și acțiuni de peste 10% în capitalul social al entităților nerezidente, <i>inclusiv pe țări:</i>	030				
Capital social	040				
Cote de participație și acțiuni de până la 10% inclusiv, <i>inclusiv pe țări:</i>	050				
Cote de participație și acțiuni de peste 10%, <i>inclusiv pe țări:</i>	060				

Bunuri ale nerezidenților înregistrate în conturi extrabilanțiere

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Intrări/ diminuări	Ieșiri/ micșorări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6
Bunuri primite în baza contractelor de comision, <i>inclusiv pe țări</i>	010				
Bunuri primite spre prelucrare, <i>inclusiv pe țări</i>	020				
Bunuri obținute din materialele prelucrate, <i>inclusiv pe țări</i>	030				

Venituri și cheltuieli aferente tranzacțiilor cu nerezidenții

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri – total	010		
Venituri aferente bunurilor procurate și vândute peste hotare fără trecerea frontierei de stat a Republicii Moldova, inclusiv pe țări:	020		
Venituri din dobânzi aferente activității operaționale și altor activități, inclusiv pe țări:	030		
Venituri din dividende și participații în alte entități, inclusiv pe țări:	040		
Venituri din decontarea datoriilor cu termenul de prescripție expirat, inclusiv pe țări:	050		
Alte venituri, inclusiv pe țări:	060		
Cheltuieli – total	070		
Cheltuieli aferente bunurilor procurate și vândute peste hotare fără trecerea frontierei de stat a Republicii Moldova, inclusiv pe țări:	080		
Cheltuieli privind dobânzile, inclusiv pe țări:	090		
Cheltuieli și provizioane aferente creanțelor comerciale și altor creanțe compromise, inclusiv pe țări:	100		
Alte cheltuieli, inclusiv pe țări:	110		

Persoanele responsabile de semnarea rapoartelor financiare ale entității*

* conform art.36 din Legea contabilității

Recipisa de primire a raportului

ID-ul raportului	290651
Tipul raportului	RSF1
Tipul perioadei de raportare	Anual
Anul de raportare	2017
Numărul de raportare a perioadei (număr)	10
Numărul de raportare a perioadei (text)	an
Codul statistic al organizației	40784253
Codul fiscal al organizației	1011600024357
IDNO organizației	1011600024357
Denumirea organizației	IT-LAB GRUP SRL
Statutul raportului	Primit la BNS
Data creării raportului	27.03.2018 12:07:51
Data expedierii raportului	29.03.2018 18:31:00
Subdiviziunea teritorială a BNS	mun. Chișinău
Telefonul subdiviziunii teritoriale a BNS	0-22-739581

Таблицы финансового отчёта автоматически проверены на арифметические ошибки и логические связи между таблицами.

Контроль показателей на соответствие с предыдущим финансовым отчётом на данный момент НЕ выполнен.

Ответственность за правильность отражения экономических операций в бухгалтерском учёте и применённых методов учёта, а также за достоверность и полноту представленных данных и приложений несёт субъект и его ответственные лица, подписавшие финансовые отчёты.

SITUAȚIILE FINANCIAREpentru perioada 01.01.2018 31.12.2018Entitatea IT-LAB GRUP SRL
(Denumirea completă)40784253

(Cod CUIIO)

1011600024357

(Cod IDNO)

Sediul: MD MD-2020 MUN.CHIȘINĂU; MUN.CHIȘINĂU SEC.RÎȘCANI 150
(Cod poștal)Raionul (municipiul, UTA); Localitatea
str-la Studentilor , 2/4 of.217, , of.

Cod CUATM

strada, nr, bl.

Activitatea principală: Activitati de consultanta in tehnologia informatiei
J6202

Cod CAEM, rev.2

Forma de proprietate: Proprietate privată 15

Cod CFP

Forma organizatorico-juridică: SOCIETATI CU RASPUNDERE LIMITATA 530

Cod CFOJ

Date de contact: Tel. +37369555535 e-mail olga@it-lab.md

WEB: _____

Numele și coordonatele al contabilului-șef: Dl (dna) Sirbu Olga Unitatea de măsură: leuTel. +37369555535

Anexa 8

Notă informativă privind veniturile și cheltuielile clasificate după natură

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri din vânzări	010	18.586.309	25.843.530
Alte venituri din activitatea operațională	020	911	8.402
Venituri din alte activități	030	4.706	3.686
Total venituri (rd.010 + rd.020 + rd.030)	040	18.591.926	25.855.618
Variația stocurilor	050		
Costul vânzărilor mărfurilor vândute	060	12.462.750	17.596.544
Cheltuieli privind stocurile	070	450.706	456.694
Cheltuieli cu personalul privind remunerarea muncii	080	1.259.683	304.546
Contribuții de asigurări sociale de stat obligatorii și prime de asigurare obligatorie de asistență medicală	090	346.413	81.791
Cheltuieli cu amortizarea și deprecierea activelor imobilizate	100	91.283	216.698
Alte cheltuieli	110	1.155.878	6.189.236
Cheltuieli din alte activități	120	25.219	34.030
Total cheltuieli (rd.050 + rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	15.791.932	24.879.539
Profit (pierdere) pînă la impozitare (rd.040 – rd.130)	140	2.799.994	976.079
Cheltuieli privind impozitul pe venit	150	346.824	125.907
Profit (pierdere) net al perioadei de gestiune (rd.140 – rd.150)	160	2.453.170	850.172

BILANȚUL

la 31.12.2018

Nr. cpt.	ACTIV	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul perioadei de gestiune
1	2	3	4	5
1.	Active imobilizate			
	Imobilizări necorporale	010	61.555	34.919
	Imobilizări corporale în curs de execuție	020	19.285	10.633
	Terenuri	030		
	Mijloace fixe	040	820.747	727.221
	Resurse minerale	050	0	
	Active biologice imobilizate	060		
	Investiții financiare pe termen lung în părți neafiliate	070		
	Investiții financiare pe termen lung în părți afiliate	080		
	Investiții imobiliare	090		
	Creanțe pe termen lung	100		
	Avansuri acordate pe termen lung	110		
	Alte active imobilizate	120		
	Total active imobilizate (rd.010 + rd.020 + rd.030 + rd.040 + rd.050 + rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	901.587	772.773
2.	Active circulante			
	Materiale	140	94.851	109.988
	Active biologice circulante	150		
	Obiecte de mică valoare și scurtă durată	160	87.117	102.172
	Producția în curs de execuție și produse	170		
	Mărfuri	180	1.970.772	2.070.035
	Creanțe comerciale	190	878.668	1.527.562
	Creanțe ale părților afiliate	200		
	Avansuri acordate curente	210	236.224	294.827
	Creanțe ale bugetului	220	174.152	170.858
	Creanțe ale personalului	230	5.880	1.320
	Alte creanțe curente	240	126.736	69.864
	Numerar în casierie și la conturi curente	250	458.035	1.598.661
	Alte elemente de numerar	260		
	Investiții financiare curente în părți neafiliate	270		
	Investiții financiare curente în părți afiliate	280		
	Alte active circulante	290	126.521	50.223
	Total active circulante (rd.140 + rd.150 + rd.160 + rd.170 + rd.180 + rd.190 + rd.200 + rd.210 + rd.220 + rd.230 + rd.240 + rd.250 + rd.260 + rd.270 + rd.280 + rd.290)	300	4.158.956	5.995.510
	Total active (rd.130 + rd.300)	310	5.060.543	6.768.283

Nr. cpt.	P A S I V	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul perioadei de gestiune
1	2	3	4	5
3.	Capital propriu			
	Capital social și suplimentar	320	5.400	5.400
	Rezerve	330	540	540
	Corecții ale rezultatelor anilor precedenți	340	X	
	Profit nerepartizat (pierdere neacoperită) al anilor precedenți	350	2.458.077	958.077
	Profit net (pierdere netă) al perioadei de gestiune	360	X	850.172
	Profit utilizat al perioadei de gestiune	370	X	
	Alte elemente de capital propriu	380		
	Total capital propriu (rd.320 + rd.330 + rd.340 + rd.350 + rd.360 - rd.370 + rd.380)	390	2.464.017	1.814.189
4.	Datorii pe termen lung			
	Credite bancare pe termen lung	400		
	Împrumuturi pe termen lung	410		
	Datorii pe termen lung privind leasingul financiar	420		
	Alte datorii pe termen lung	430		
	Total datorii pe termen lung (rd.400 + rd.410 + rd.420 + rd.430)	440		
5.	Datorii curente			
	Credite bancare pe termen scurt	450		
	Împrumuturi pe termen scurt	460	163.000	25.000
	Datorii comerciale	470	839.814	3.482.703
	Datorii față de părțile afiliate	480		
	Avansuri primite curente	490	1.044.745	1.020.277
	Datorii față de personal	500	98.000	50.575
	Datorii privind asigurările sociale și medicale	510	23.176	
	Datorii față de buget	520	298.773	
	Venituri anticipate curente	530		
	Datorii față de proprietari	540	7.200	362.912
	Finanțări și încasări cu destinație specială curente	550		
	Provizioane curente	560		
	Alte datorii curente	570	121.818	12.627
	Total datorii curente (rd.450 + rd.460 + rd.470 + rd.480 + rd.490 + rd.500 + rd.510 + rd.520 + rd.530 + rd.540 + rd.550 + rd.560 + rd.570)	580	2.596.526	4.954.094
	Total pasive (rd.390 + rd.440 + rd.580)	590	5.060.543	6.768.283

SITUAȚIA DE PROFIT ȘI PIERDEREde la 01.01.2018 pînă la 31.12.2018

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri din vânzări	010	18.586.309	25.843.530
Costul vânzărilor	020	14.337.488	23.301.534
Profit brut (pierdere brută) (rd.010 – rd.020)	030	4.248.821	2.541.996
Alte venituri din activitatea operațională	040	911	8.402
Cheltuieli de distribuire	050	30.102	66.490
Cheltuieli administrative	060	1.352.028	1.451.264
Alte cheltuieli din activitatea operațională	070	47.095	26.221
Rezultatul din activitatea operațională: profit (pierdere) (rd.030 + rd.040 – rd.050 – rd.060 – rd.070)	080	2.820.507	1.006.423
Rezultatul din alte activități: profit (pierdere)	090	-20.513	-30.344
Profit (pierdere) pînă la impozitare (rd.080 + rd.090)	100	2.799.994	976.079
Cheltuieli privind impozitul pe venit	110	346.824	125.907
Profit net (pierdere netă) al perioadei de gestiune (rd.100 – rd.110)	120	2.453.170	850.172

Anexa 3

SITUAȚIA MODIFICĂRILOR CAPITALULUI PROPRIUde la 01.01.2018 pînă la 31.12.2018

Nr. d/o	Indicatori	Cod rd.	Sold la începutul perioadei de gestiune	Majorări	Diminuări	Sold la sfîrșitul perioadei de gestiune
1	2	3	4	5	6	7
1	Capital social și suplimentar					
	Capital social	010	5.400			5.400
	Capital suplimentar	020				
	Capital nevărsat	030	0	0	0	0
	Capital neînregistrat	040				
	Capital retras	050	0	0	0	0
	Total capital social și suplimentar (rd.010 + rd.020 + rd.030 + rd.040 + rd.050)	060	5.400			5.400
2	Rezerve					
	Capital de rezervă	070				
	Rezerve statutare	080	540			540
	Alte rezerve	090				
	Total rezerve (rd.070 + rd.080 + rd.090)	100	540			540
3	Profit nerepartizat (pierdere neacoperită)					
	Corecții ale rezultatelor anilor precedenți	110				
	Profit nerepartizat (pierdere neacoperită) al anilor precedenți	120	2.458.077		1.500.000	958.077
	Profit net (pierdere netă) al perioadei de gestiune	130	X	850.172		850.172
	Profit utilizat al perioadei de gestiune	140	X	0	0	0
	Rezultatul din tranziția la noile reglementări contabile	150				
	Total profit nerepartizat (pierdere neacoperită) (rd.110 + rd.120 + rd.130 + rd.140 + rd.150)	160	2.458.077	850.172	1.500.000	1.808.249
4	Alte elemente de capital propriu, din care	170				
	Diferențe din reevaluare	171				
	Subvenții entităților cu proprietate publică	172				
	Total capital propriu (rd.060 + rd.100 + rd.160 + rd.170)	180	2.464.017	850.172	1.500.000	1.814.189

SITUAȚIA FLUXURILOR DE NUMERAR

de la 01.01.2018 pînă la 31.12.2018

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Fluxuri de numerar din activitatea operațională			
Încasări din vânzări	010	20.163.158	27.424.021
Plăți pentru stocuri și servicii procurate	020	15.997.561	22.780.708
Plăți către angajați și organe de asigurare socială și medicală	030	1.585.113	774.530
Dobînzi plătite	040		
Plata impozitului pe venit	050	632.847	218.831
Alte încasări	060	1.011.589	312.872
Alte plăți	070	3.602.612	1.591.341
Fluxul net de numerar din activitatea operațională (rd.010 – rd.020 – rd.030 – rd.040 – rd.050 + rd.060 – rd.070)	080	-643.386	2.371.483
Fluxuri de numerar din activitatea de investiții			
Încasări din vânzarea activelor imobilizate	090		
Plăți aferente intrărilor de active imobilizate	100		
Dobînzi încasate	110		
Dividende încasate	120		
Alte încasări (plăți)	130		
Fluxul net de numerar din activitatea de investiții (rd.090 – rd.100 + rd.110 + rd.120 ± rd.130)	140		
Fluxuri de numerar din activitatea financiară			
Încasări sub formă de credite și împrumuturi	150	870.000	350.000
Plăți aferente rambursării creditelor și împrumuturilor	160	1.047.000	488.000
Dividende plătite	170		1.077.052
Încasări din operațiuni de capital	180		
Alte încasări (plăți)	190		
Fluxul net de numerar din activitatea financiară (rd.150 – rd.160 – rd.170 + rd.180 ± rd.190)	200	-177.000	-1.215.052
Fluxul net de numerar total (± rd.080 ± rd.140 ± rd.200)	210	-820.386	1.156.431
Diferențe de curs valutar favorabile (nefavorabile)	220	-18.545	-15.805
Sold de numerar la începutul perioadei de gestiune	230	1.296.966	458.035
Sold de numerar la sfârșitul perioadei de gestiune (± rd.210 ± rd.220 + rd.230)	240	458.035	1.598.661

Date generale

1. Certificat de înregistrare a entității, eliberat de Camera Înregistrării de Stat.

Număr de înregistrare 10116000243 Data înregistrării 07.07.2011 Seria MD Număr 011015157
57

2. Capital social înregistrat de Camera Înregistrării de Stat:

data 07.07.2011, suma 5.400 lei, inclusiv:

1) cota statului lei,

2) cota deținătorilor a cel puțin 20% lei,

Modificări ulterioare:

a) , suma lei, inclusiv cota statului lei,

b) , suma lei, inclusiv cota statului lei,

3. Entitățile, activitatea cărora necesită licență, indică:

Licența în vigoare:

1) Număr AC000197, data eliberării 2014-04-17 00:00:00

Termen de valabilitate 17.04.2019

Tipul de activitate Servicii de reare, implementare si asigurare a sistemelor
informationale

Organul care a eliberat licența Agentia Nationala pentru Reglementare in
comunicatii electrice si tehnologii
informationale

4. Numărul mediu scriptic al personalului în perioada de gestiune 4 persoane, inclusiv pe categorii:

1) personal administrativ 4 persoane,

2) muncitori persoane,

5. Numărul personalului la 31.12.2018 4 persoane.

6. Remunerarea personalului entității în perioada de gestiune 304.546 lei.

7. Remunerarea membrilor organelor de administrare, de conducere și supraveghere și alte angajamente apărute sau asumate în legătură cu pensiile membrilor actuali sau ale foștilor membri ai acestor organe, pe categorii lei.

8. Avansurile și creditele acordate membrilor organelor specificate la pct.7 lei, inclusiv rambursate lei.

9. Valoarea activelor imobilizate și circulante, înregistrate în calitate de gaj¹

1) valoarea de gaj lei,

2) valoarea contabilă lei.

10. Numărul acțiunilor ordinare la finele perioadei de gestiune unități.

11. Profit net (pierdere netă) a perioadei de gestiune pentru o acțiune ordinară:

1) profit lei,

2) pierdere lei.

12. Dividende calculate pentru o acțiune ordinară pentru perioada de gestiune:

1) plătite lei,

2) planificate pentru plată lei.

13. Valută străină disponibilă, recalculată în monedă națională a Republicii Moldova – total lei,
inclusiv (lei, denumirea și codul valutei):

) codul valutei

14. Numerar legat – total lei.

În rîndurile, în care se înscriu sumele de gaj, în toate coloanele prin fracție se reflectă:

a) la numărător – valoarea de gaj;

b) la numitor – valoarea contabilă

NOTĂ INFORMATIVĂ
privind relațiile cu nerezidenții

Tabelul 1

Creanțe, investiții financiare și datorii pe termen lung aferente *fondatorilor* nerezidenți

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune
			Intrări/ majorări	Ieșiri/ diminuări	Diferențe de curs valutar	
1	2	3	4	5	6	7
Creanțe și investiții financiare pe termen lung – total	010					
Creanțe comerciale, <i>inclusiv pe țări:</i>	020					
Avansuri acordate, <i>inclusiv pe țări:</i>	030					
Împrumuturi acordate și creanțe privind leasingul financiar, <i>inclusiv pe țări:</i>	040					
Alte creanțe și investiții financiare, <i>inclusiv pe țări:</i>	050					
Datorii pe termen lung – total	060					
Datorii comerciale, <i>inclusiv pe țări:</i>	070					
Avansuri primite, <i>inclusiv pe țări:</i>	080					
Credite bancare, împrumuturi și datorii privind leasingul financiar, <i>inclusiv pe țări:</i>	090					
Alte datorii, <i>inclusiv pe țări:</i>	100					

Creanțe, investiții financiare și datorii pe termen lung aferente nerezidenților, *cu excepția fondatorilor*

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Modificări în perioada de gestiune			Sold la sfârșitul perioadei de gestiune
			Intrări/ majorări	Ieșiri/ diminuări	Diferențe de curs valutar	
1	2	3	4	5	6	7
Creanțe și investiții financiare pe termen lung – total	010					
Creanțe comerciale, <i>inclusiv pe țări:</i>	020					
Avansuri acordate, <i>inclusiv pe țări:</i>	030					
Împrumuturi acordate și creanțe privind leasingul financiar, <i>inclusiv pe țări:</i>	040					
Depozite, <i>inclusiv pe țări:</i>	050					
Alte creanțe și investiții financiare, <i>inclusiv pe țări:</i>	060					
Datorii pe termen lung – total	070					
Datorii comerciale, <i>inclusiv pe țări:</i>	080					
Avansuri primite, <i>inclusiv pe țări:</i>	090					
Credite bancare, împrumuturi și datorii privind leasingul financiar, <i>inclusiv pe țări:</i>	100					
Alte datorii, <i>inclusiv pe țări:</i>	110					

Investiții financiare în străinătate și participarea nerezidenților în capitalul social

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Intrări/ majorări	Ieșiri/ diminuări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6
Investiții financiare	010				
Cote de participație și acțiuni de pînă la 10% inclusiv, în capitalul social al entităților nerezidente, <i>inclusiv pe țări:</i>	020				
Cote de participație și acțiuni de peste 10% în capitalul social al entităților nerezidente, <i>inclusiv pe țări:</i>	030				
Capital social	040				
Cote de participație și acțiuni de pînă la 10% inclusiv, <i>inclusiv pe țări:</i>	050				
Cote de participație și acțiuni de peste 10%, <i>inclusiv pe țări:</i>	060				

Bunuri ale nerezidenților înregistrate în conturi extrabilanțiere

Indicatori	Cod rd./ cod țară	Sold la începutul perioadei de gestiune	Intrări/ diminuări	Ieșiri/ micșorări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6
Bunuri primite în baza contractelor de comision, <i>inclusiv pe țări</i>	010				
Bunuri primite spre prelucrare, <i>inclusiv pe țări</i>	020				
Bunuri obținute din materialele prelucrate, <i>inclusiv pe țări</i>	030				

Venituri și cheltuieli aferente tranzacțiilor cu nerezidenții

Indicatori	Cod rd.	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Venituri – total	010		
Venituri aferente bunurilor procurate și vândute peste hotare fără trecerea frontierei de stat a Republicii Moldova, <i>inclusiv pe țări:</i>	020		
Venituri din dobânzi aferente activității operaționale și altor activități, <i>inclusiv pe țări:</i>	030		
Venituri din dividende și participații în alte entități, <i>inclusiv pe țări:</i>	040		
Venituri din decontarea datoriilor cu termenul de prescripție expirat, <i>inclusiv pe țări:</i>	050		
Alte venituri, <i>inclusiv pe țări:</i>	060		
Cheltuieli – total	070		
Cheltuieli aferente bunurilor procurate și vândute peste hotare fără trecerea frontierei de stat a Republicii Moldova, <i>inclusiv pe țări:</i>	080		
Cheltuieli privind dobânzile, <i>inclusiv pe țări:</i>	090		
Cheltuieli și provizioane aferente creanțelor comerciale și altor creanțe compromise, <i>inclusiv pe țări:</i>	100		
Alte cheltuieli, <i>inclusiv pe țări:</i>	110		

Persoanele responsabile de semnarea rapoartelor financiare ale entității*

* conform art.36 din Legea contabilității

Recipisa de primire a raportului

ID-ul raportului	480842
Tipul raportului	RSF1
Tipul perioadei de raportare	Anual
Anul de raportare	2018
Numărul de raportare a perioadei (număr)	10
Numărul de raportare a perioadei (text)	an
Codul statistic al organizației	40784253
Codul fiscal al organizației	1011600024357
IDNO organizației	1011600024357
Denumirea organizației	IT-LAB GRUP SRL
Statutul raportului	Primit la BNS
Data creării raportului	28.03.2019 06:28:16
Data expedierii raportului	29.03.2019 07:36:05
Subdiviziunea teritorială a BNS	mun. Chișinău
Telefonul subdiviziunii teritoriale a BNS	0-22-739581

Таблицы финансового отчёта автоматически проверены на арифметические ошибки и логические связи между таблицами.

Контроль показателей на соответствие с предыдущим финансовым отчётом на данный момент НЕ выполнен.

Ответственность за правильность отражения экономических операций в бухгалтерском учёте и применённых методов учёта, а также за достоверность и полноту представленных данных и приложений несёт субъект и его ответственные лица, подписавшие финансовые отчёты.

Descriere	1	2	3
...	010	18.542.710	25.042.318
...	020	507	1.002
...	030	4.706	2.000
...	040	18.591.706	25.253.818
...	050		
...	060	32.482.750	17.396.244
...	070	491.706	456.004
...	080	1.139.643	304.006
...	090	246.413	82.791
...	100	97.283	218.806
...	110	1.165.078	6.168.216
...	120	21.020	21.020
...	130	18.701.912	24.876.339
...	140	2.248.994	771.078
...	150	146.031	119.671
...	160	2.437.170	870.129

TEST REPORT

Applicant: SHENZHEN DINSTAR Co., Ltd.

Address of Applicant: 9F, Guoxing Building, Changxing Road, Nanshan District,
Shenzhen, Guangdong, P.R. China

Equipment Under Test (EUT)

Product Name: Trunk Gateway

Model No.: MTG2000

Applicable standards: EN 55032:2015
EN 55035:2017
EN 61000-3-2:2014, EN 61000-3-3:2013

Date of sample receipt: 12 Apr., 2018

Date of Test: 13 Apr., to 26 Jun., 2018

Date of report issue: 27 Jun., 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 2014/30/EU are considered.



Bruce Zhang
Laboratory Manager



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	27 Jun., 2018	Original

Tested by:

Carey Chen

Test Engineer

Date:

27 Jun., 2018

Reviewed by:

Wimer Zhang

Project Engineer

Date:

27 Jun., 2018

3 Contents

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4 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission	EN 55032	EN 55032	Class A	PASS
Conducted Emission	EN 55032	EN 55032	Class A	PASS
Harmonic Emission	EN 61000-3-2	EN 61000-3-2	N/A	N/A
Flicker Emission	EN61000-3-3	EN61000-3-3	Clause 5 of EN 61000-3-3	N/A
ESD	EN 55035	EN61000-4-2:2009	Contact ±4 Kv Air ±8 kV	PASS
Continuous RF electromagnetic radiated field disturbances	EN 55035	EN61000-4-3:2006+A1:2007+A2:2010	80MHz-1000MHz, 1800MHz,2600MHz, 3500MHz, 5000MHz: 3Vrms (emf), 80%, 1kHz Amp. Mod.	PASS
Electrical Fast Transients (EFT)	EN 55035	EN 61000-4-4:2012	AC ± 1.0kV	PASS
Surge	EN 55035	EN 61000-4-5:2014+A1:2017	Line-line:±1kV Line-earth: ±2kV	PASS
Continuous induced RF disturbances	EN 55035	EN61000-4-6:2014+AC:2015	0.15-10MHz: 3V 10-30MHz: 3-1V 30-80MHz: 1V 80%, 1kHz, AM	PASS
Power frequency magnetic field	EN 55035	EN 61000-4-8:2010	50/60 Hz 1A/m	PASS
Voltage Dips and Interruptions	EN 55035	EN61000-4-11:2004+A1:2017	0 % U_T^* for 0.5per 0 % U_T^* for 250per 70 % U_T^* for 25per	PASS
<p>Remark: * U_T is the nominal supply voltage. Pass: Meet the requirements, N/A: not applicable.</p>				

5 General Information

5.1 Client Information

Applicant:	SHENZHEN DINSTAR Co., Ltd.
Address:	9F,Guoxing Building, Changxing Road, Nanshan District, Shenzhen, Guangdong, P.R. China
Manufacturer:	SHENZHEN DINSTAR Co., Ltd.
Address:	9F,Guoxing Building, Changxing Road, Nanshan District, Shenzhen, Guangdong, P.R. China

5.2 General Description of E.U.T.

Product Name:	Trunk Gateway
Model No.:	MTG2000
Power supply:	Power A and Power B: AC 100~240V/50~60Hz

5.3 Test mode and voltage

Communications mode:	Keep the EUT in Full communications mode
Test voltage:	AC 230V/50Hz
Remark:	<ol style="list-style-type: none"> 1. During the test, pre-scan 120Vac/60Hz and 230Vac/50Hz of the Power supply, found 230Vac/50Hz was worse case mode. 2. The report only reflects the worst mode.

5.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB
Radiated Emission (18GHz ~ 26.5GHz)	±2.88 dB

5.6 Description of Cable Used

N/A

5.7 Laboratory Facility

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

- **FCC - Registration No.: 727551**
Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.
- **IC - Registration No.: 10106A-1**
The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.
- **CNAS - Registration No.: CNAS L6048**
Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.
- **A2LA - Registration No.: 4346.01**
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
 Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
 Bao'an District, Shenzhen, Guangdong, China
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.9 Monitoring of EUT for the Immunity Test

Visual:	Monitored the LED of EUT
Sound:	N/A
Other:	Monitored the data link of EUT

5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Simulated Station	Anritsu	MT8820C	6201026545	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
ISN	Schwarzbeck	CAT3 8158	CCIS0185	03-14-2018	03-13-2019
ISN	Schwarzbeck	CAT5 8158	CCIS0186	03-14-2018	03-13-2019
ISN	Schwarzbeck	NTFM 8158	CCIS0187	03-14-2018	03-13-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A

Harmonic/ Flicker:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Harmonic/Flicker Analyzer	EMTEST	DPA500	0303-08	03-07-2018	03-06-2019
Power Souce	EMTEST	ACS500S1	0502-02	03-07-2018	03-06-2019

ESD:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
ESD Simulator	Haefely	ONYX30	183900	02-25-2018	02-24-2019

Surge:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Surge test system	Prima	SUG61005BG	PR160951341	12-28-2017	12-27-2018
Surge test system	Prima	SUG10/700G	PR161151381	12-28-2017	12-27-2018

EFT:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EFT test system	Prima	EFT61004AG	PR16084621	12-16-2017	12-15-2018
Coupling clamp	Prima	/	CCIS0189	03-19-2018	03-18-2019

PFMF:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Power frequency magnetic field generator	Prima	PFM61008TG	PR16088206	12-16-2017	12-15-2018

Voltage dips and Interruption:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Voltage dips and Interruption test system	Prima	DRP61011AG	PR16076343	12-16-2017	12-15-2018

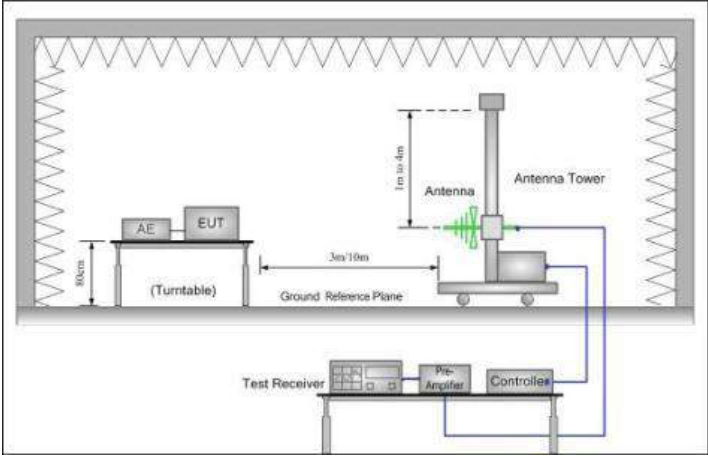
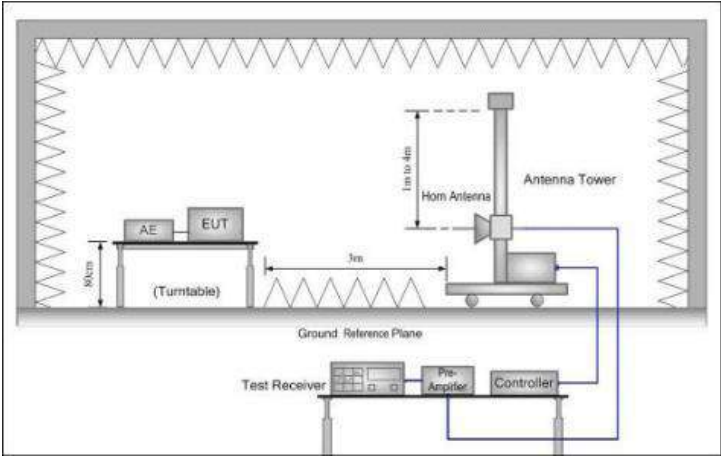
Continuous induced RF disturbances					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Conducted Disturbance Test system	SCHLODER	CDG6000	126B1445/2016	03-19-2018	03-18-2019
Coupling/Decoupling Network	SCHLODER	CDN-M2+3	A2210417/2016	03-19-2018	03-18-2019
EM Clamp	SCHLODER	EMCL-20	132A1281/2016	03-19-2018	03-18-2019
Nexus Conduituining Amplifier	B&K	2690	SEL0077	N/A	N/A
MUTH Simulator	B&K	4227	SEL0078	N/A	N/A
Sound Level Calibrator	B&K	4231	SEL0079	N/A	N/A
Audio Analyzer	Rohde & Schwarz	UPL 16	SEL0076	03-07-2018	03-06-2019

Continuous RF electromagnetic radiated field disturbances					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Signal Generator	Rohde & Schwarz	SMR27	SEL0068	03-07-2018	03-06-2019
RF Amplifier 80M-1GHz	Amplifier Research	AR 150W1000	SEL0066	03-07-2018	03-06-2019
RF Amplifier 1GHz-4.2GHz	Amplifier Research	AR 25S1G4AM1	SEL0065	03-07-2018	03-06-2019
RF Amplifier 4GHz-6GHz	Amplifier Research	35S4G8A	SEL0068	03-07-2018	03-06-2019
Power Meter	Rohde & Schwarz	NRVS	SEL0069	03-07-2018	03-06-2019
Power Sensor	Rohde & Schwarz	URV5-Z2	SEL0071	03-07-2018	03-06-2019
Power Sensor	Rohde & Schwarz	URV5-Z2	SEL0072	03-07-2018	03-06-2019
Software EMC32	Rohde & Schwarz	EMC32-S	SEL0082	N/A	N/A
Log-periodic Antenna	Amplifier Research	AT1080	SEL0073	03-07-2018	03-06-2019
Antenna Tripod	Amplifier Research	TP1000A	SEL0074	N/A	N/A
High Gain Horn Antenna	Amplifier Research	AT4002A	SEL0075	03-07-2018	03-06-2019
Nexus Conduituining Amplifier	B&K	2690	SEL0077	N/A	N/A
MUTH Simulator	B&K	4227	SEL0078	N/A	N/A
Sound Level Calibrator	B&K	4231	SEL0079	N/A	N/A
Audio Analyzer	Rohde & Schwarz	UPL 16	SEL0076	03-07-2018	03-06-2019

6 Test Results

6.1 EMI (Emission)

6.1.1 Radiated Emission

Test Requirement:	EN 55032				
Test Method:	EN 55032				
Test Frequency Range:	30MHz to 6GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	QP Value
	Above 1GHz	Peak	1MHz	3MHz	PK Value
Average		1MHz	3MHz	AV Value	
ITE Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-230MHz	50.0		QP Value	
	230MHz-1GHz	57.0		QP Value	
	1GHz-3GHz	56.0		AV Value	
		76.0		PK Value	
3GHz-6GHz	60.0		AV Value		
	80.0		PK Value		
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					
EUT setup					

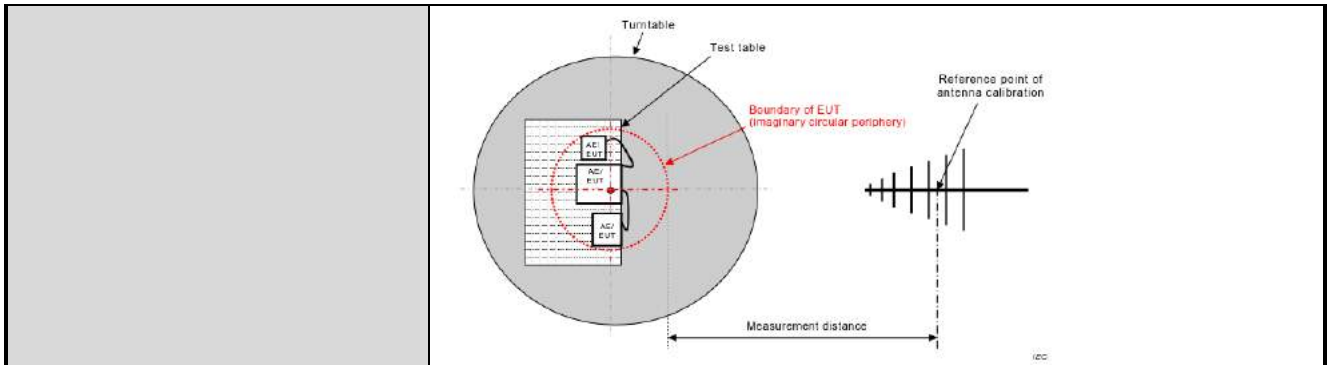


Figure C.1 – Measurement distance

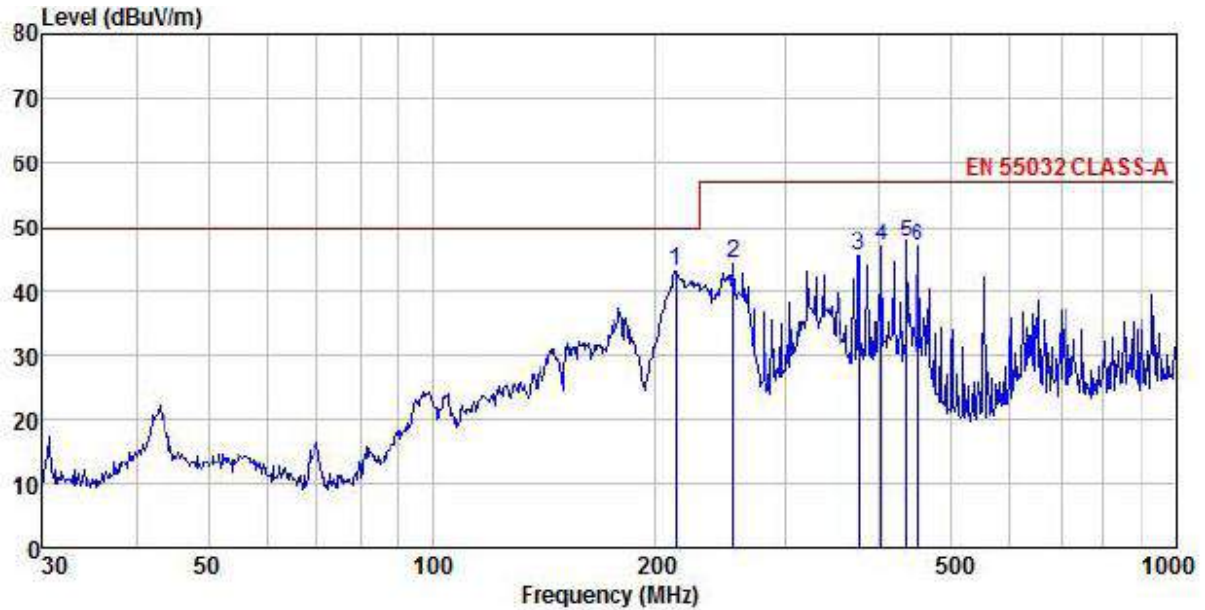
Test Procedure:

- 30MHz to 1GHz:**
1. The radiated emissions test was conducted in a semi-anechoic chamber.
 2. The table top EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
 3. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
 4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.
- Above 1GHz:**
1. The radiated emissions test was conducted in a fully-anechoic chamber.
 2. The table top EUT was placed upon anon-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
 3. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emission spectrum plots of the EUT.
 4. The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

Test environment:	Temp.:	25.5°C	Humid.:	55%	Press.:	101kPa
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Test By:	Carey	Test mode:	Communications mode
Test Frequency:	30 MHz - 1 GHz	Polarization:	Horizontal



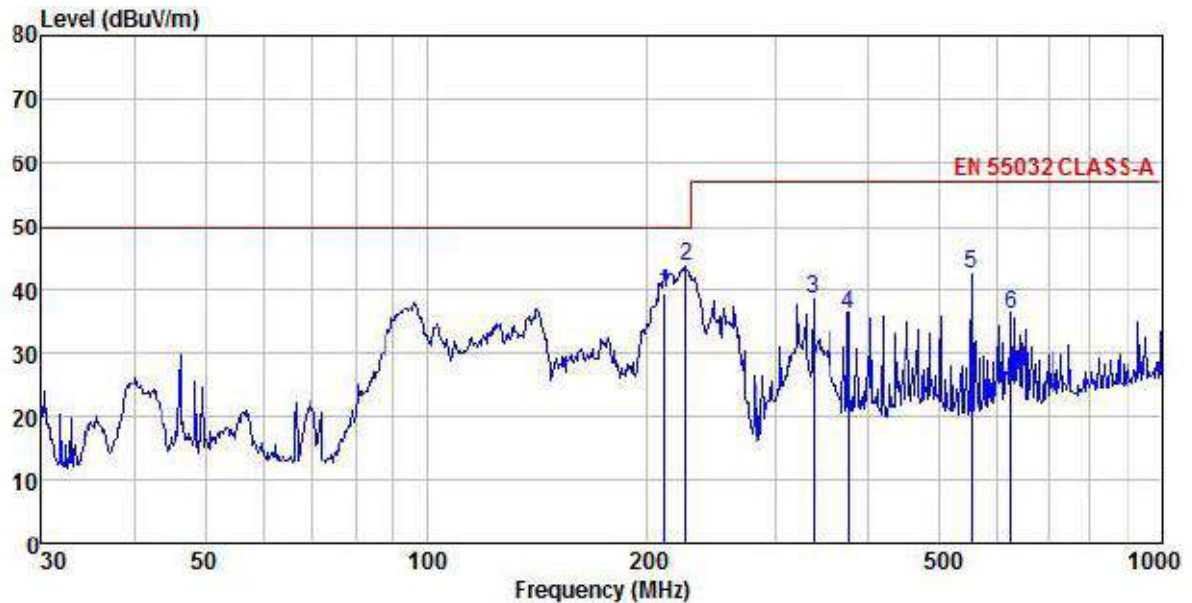
Site : 3m chamber
 Condition : EN 55032 CLASS-A 3m VULB9163(30M2G) HORIZONTAL
 EUT : Trunking gateway
 Model : MT62000
 Test mode : communication mode
 Power Rating : AC 230V/50Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	212.270	57.13	11.98	2.86	28.75	43.22	50.00 -6.78 QP
2	253.837	56.76	13.33	2.82	28.53	44.38	57.00 -12.62 QP
3	375.939	55.92	15.08	3.09	28.68	45.41	57.00 -11.59 QP
4	401.839	57.11	15.52	3.08	28.78	46.93	57.00 -10.07 QP
5	434.065	57.38	15.92	3.16	28.84	47.62	57.00 -9.38 QP
6	451.135	56.60	16.13	3.21	28.87	47.07	57.00 -9.93 QP

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Test By:	Carey	Test mode:	Communications mode
Test Frequency:	30 MHz - 1 GHz	Polarization:	Vertical



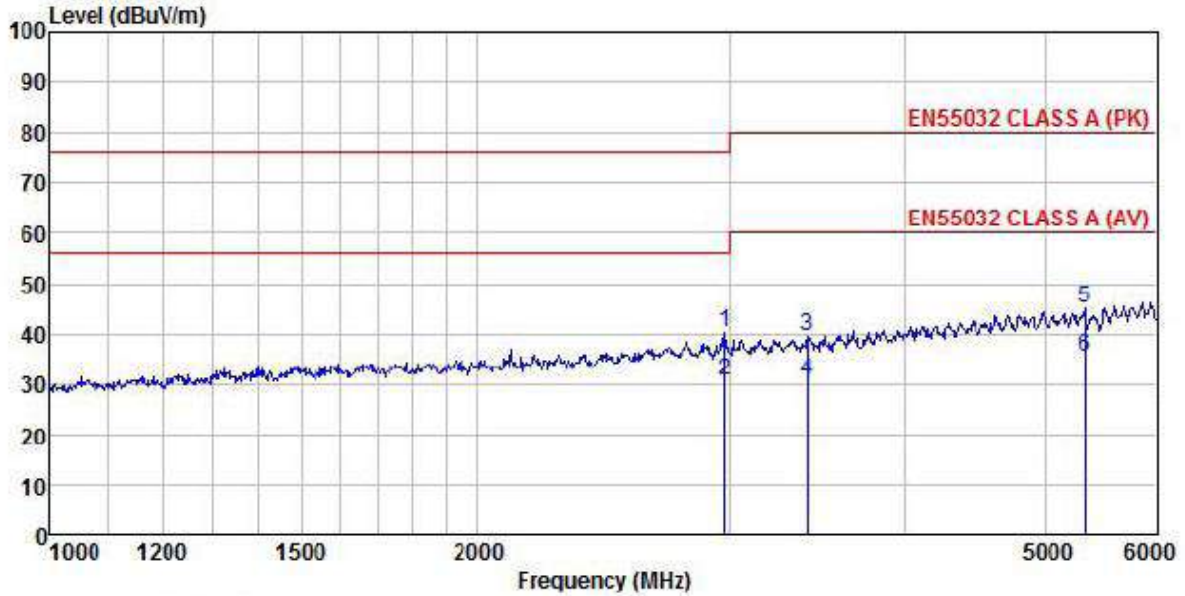
Site : 3m chamber
 Condition : EN 55032 CLASS-A 3m VULB9163(30M2G) VERTICAL
 EUT : Trunking gateway
 Model : MTG2000
 Test mode : communication mode
 Power Rating : AC 230V/50Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	210.786	53.58	11.92	2.86	28.76	39.60	50.00	-10.40 QP
2	226.099	57.04	12.49	2.84	28.67	43.70	50.00	-6.30 QP
3	336.035	49.71	14.34	3.05	28.53	38.57	57.00	-18.43 QP
4	375.939	46.78	15.08	3.09	28.68	36.27	57.00	-20.73 QP
5	550.948	49.59	18.02	3.89	29.10	42.40	57.00	-14.60 QP
6	625.078	41.79	19.51	3.90	28.86	36.34	57.00	-20.66 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test By:	Carey	Test mode:	Communications mode
Test Frequency:	1 GHz - 6 GHz	Polarization:	Horizontal



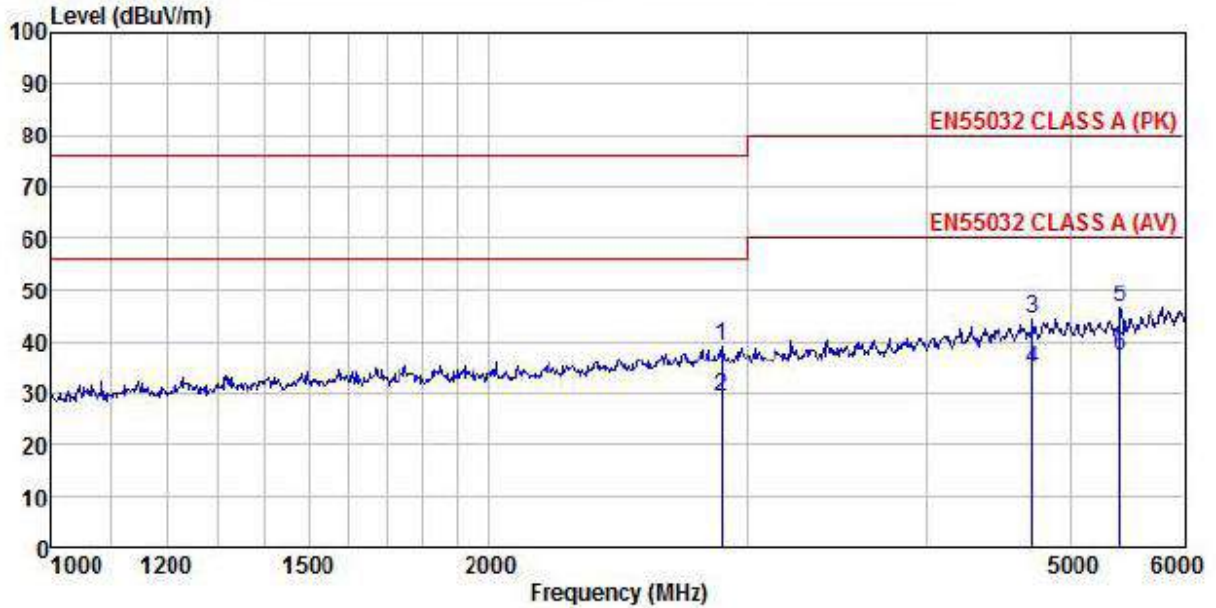
Site : 3m chamber
 Condition : EN55032 CLASS A (PK) 3m EBHA9120(1G18G) HORIZONTAL
 EUT : Trunking gateway
 Model : MTG2000
 Test mode : communication mode
 Power Rating : AC 230V/50Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2977.790	47.76	28.56	5.33	41.52	40.13	76.00 -35.87 Peak
2	2977.790	38.15	28.56	5.33	41.52	30.52	56.00 -25.48 Average
3	3406.085	46.34	28.85	5.63	41.36	39.46	80.00 -40.54 Peak
4	3406.085	37.52	28.85	5.63	41.36	30.64	60.00 -29.36 Average
5	5340.371	47.60	32.25	7.11	41.89	45.07	80.00 -34.93 Peak
6	5340.371	38.12	32.25	7.11	41.89	35.59	60.00 -24.41 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test By:	Carey	Test mode:	Communications mode
Test Frequency:	1 GHz - 6 GHz	Polarization:	Vertical



Site : 3m chamber
 Condition : EN55032 CLASS A (PK) 3m EBHA9120(1G18G) VERTICAL
 EUT : Trunking gateway
 Model : MTG2000
 Test mode : communication mode
 Power Rating : AC 230V/50Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Yaro
 Remark :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
NHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2888.455	46.99	28.39	5.23	41.59	39.02	76.00 -36.98 Peak
2	2888.455	37.15	28.39	5.23	41.59	29.18	56.00 -26.82 Average
3	4719.315	48.00	31.46	6.84	41.94	44.36	80.00 -35.64 Peak
4	4719.315	38.41	31.46	6.84	41.94	34.77	80.00 -25.23 Average
5	5417.471	49.07	32.32	7.15	41.86	46.68	80.00 -33.32 Peak
6	5417.471	39.62	32.32	7.15	41.86	37.23	80.00 -22.77 Average

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

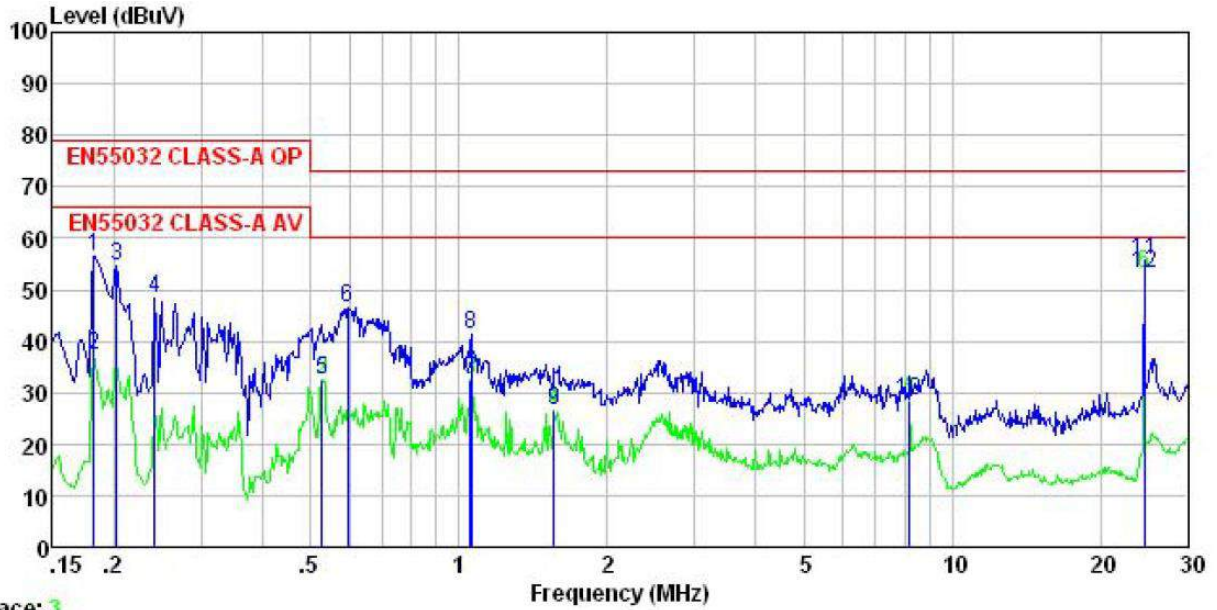
6.1.2 Conducted Emission

Test Requirement:	EN 55032					
Test Method:	EN 55032					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class A					
Receiver setup:	RBW = 9kHz, VBW = 30kHz					
Limit:	Frequency range (MHz)	Limit (dBuV)				
		Quasi-peak	Average			
	0.15-0.5	79	66			
	0.5-30	73	60			
* Decreases with the logarithm of the frequency.						
Test setup:	<p><i>Remark</i> <i>E.U.T: Equipment Under Test</i> <i>LISN: Line Impedance Stabilization Network</i> <i>Test table height=0.8m</i></p>					
Test procedure	<p>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). Which provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to EN55032 Class B on conducted measurement.</p>					
Test environment:	Temp.:	23°C	Humid.:	56%	Press.:	101kPa
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Power A:

Test By:	Carey	Test mode:	Communications mode
Test Voltage	AC 230 V/50 Hz	Phase:	Line



Trace: 3

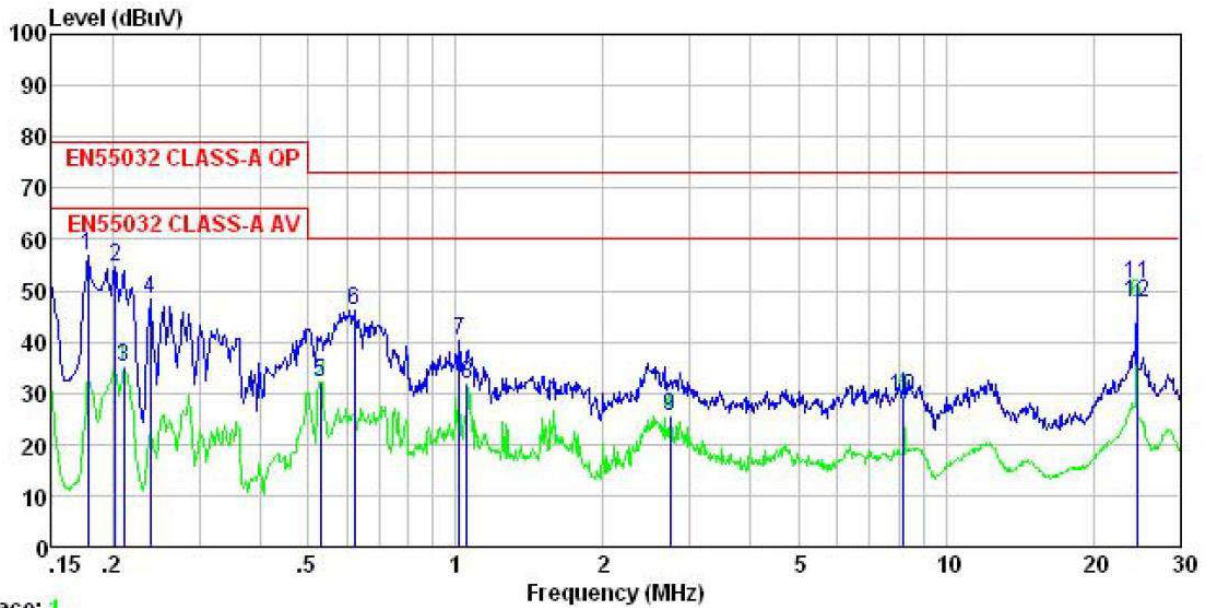
Site : CCIS Shielding Room
 Condition : EN55032 CLASS-A QP LISN LINE
 EUT : Trunking gateway
 Model : MTG2000
 Test Mode : Communications mode
 Power Rating : AC 230V/50Hz
 Environment : Temp: 23 .5°C Humi:57% Atmos:101KPa
 Test Engineer: Yaro
 Remark : POWER A

	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	45.67	0.16	10.77	56.60	79.00	-22.40	QP
2	0.182	26.26	0.16	10.77	37.19	66.00	-28.81	Average
3	0.202	43.86	0.15	10.76	54.77	79.00	-24.23	QP
4	0.242	37.49	0.14	10.75	48.38	79.00	-30.62	QP
5	0.527	21.53	0.12	10.76	32.41	60.00	-27.59	Average
6	0.595	35.66	0.13	10.77	46.56	73.00	-26.44	QP
7	1.054	21.40	0.13	10.88	32.41	60.00	-27.59	Average
8	1.060	30.37	0.13	10.88	41.38	73.00	-31.62	QP
9	1.560	15.38	0.14	10.93	26.45	60.00	-33.55	Average
10	8.192	17.25	0.28	10.86	28.39	60.00	-31.61	Average
11	24.529	44.34	0.33	10.88	55.55	73.00	-17.45	QP
12	24.529	42.01	0.33	10.88	53.22	60.00	-6.78	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test By:	Carey	Test mode:	Communications mode
Test Voltage:	AC 230 V/50 Hz	Phase:	Neutral



Trace: 1
 Site : CCIS Shielding Room
 Condition : EN55032 CLASS-A QP LISN NEUTRAL
 EUT : Trunking gateway
 Model : MTG2000
 Test Mode : Communications mode
 Power Rating : AC 230V/50Hz
 Environment : Temp: 23.5°C Humi:57% Atmos:101KPa
 Test Engineer: Yaro
 Remark : POWER A

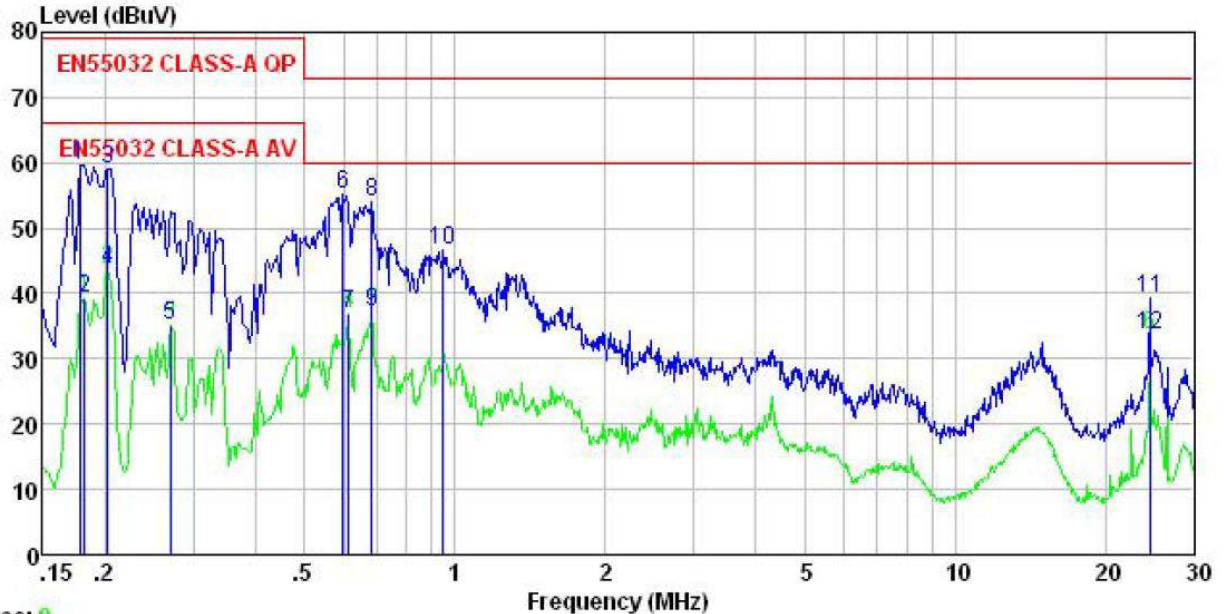
	Read	LISN	Cable	Limit	Over		
Freq	Level	Factor	Loss	Line	Limit	Remark	
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.178	44.95	0.95	10.77	56.67	79.00	-22.33 QP
2	0.202	42.85	0.92	10.76	54.53	79.00	-24.47 QP
3	0.211	23.34	0.93	10.76	35.03	66.00	-30.97 Average
4	0.238	36.62	0.94	10.75	48.31	79.00	-30.69 QP
5	0.529	20.53	0.97	10.76	32.26	60.00	-27.74 Average
6	0.621	34.55	0.97	10.77	46.29	73.00	-26.71 QP
7	1.016	28.45	0.97	10.87	40.29	73.00	-32.71 QP
8	1.054	19.99	0.97	10.88	31.84	60.00	-28.16 Average
9	2.736	13.59	0.99	10.93	25.51	60.00	-34.49 Average
10	8.192	17.21	1.02	10.86	29.09	60.00	-30.91 Average
11	24.529	39.74	0.67	10.88	51.29	73.00	-21.71 QP
12	24.529	35.97	0.67	10.88	47.52	60.00	-12.48 Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Power B:

Test By:	Carey	Test mode:	Communications mode
Test Voltage	AC 230 V/50 Hz	Phase:	Line



Trace: 9

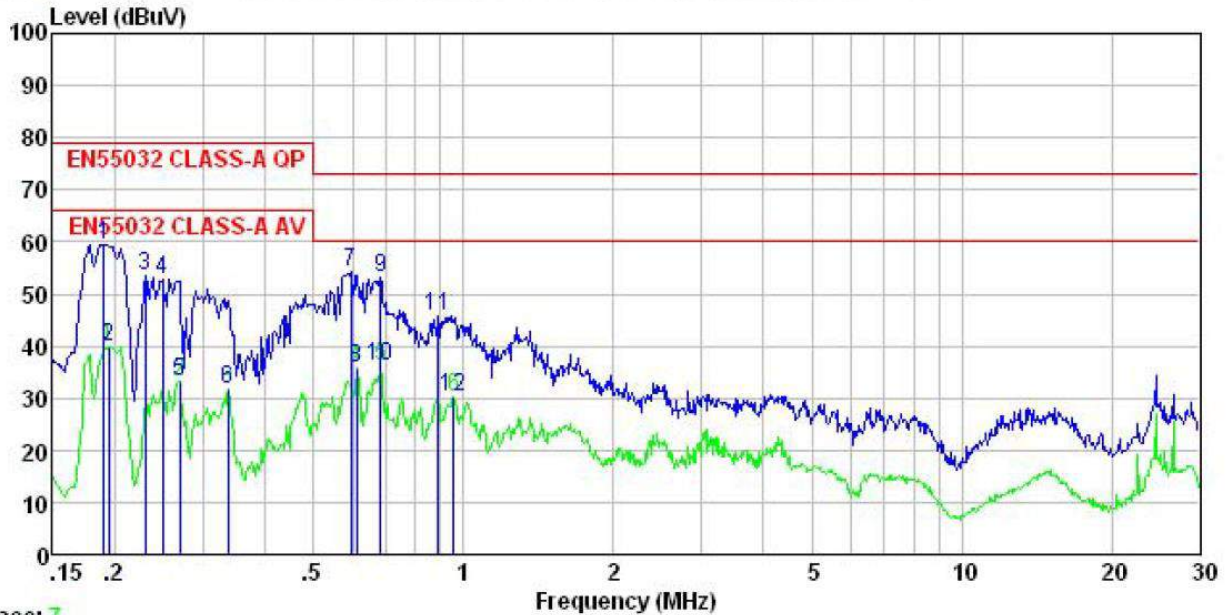
Site : CCIS Conducted test Site
 Condition : EN55032 CLASS-A QP LISN LINE
 EUT : Trunking gateway
 Model : MTG2000
 Test Mode : Communications mode
 Power Rating : AC 230V/50Hz
 Environment : Temp: 23 .5°C Humi:57% Atmos:101KPa
 Test Engineer: Yaro
 Remark : POWER B

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.178	48.75	0.16	10.77	59.68	79.00	-19.32	Peak
2	0.182	28.31	0.16	10.77	39.24	66.00	-26.76	Average
3	0.202	48.26	0.15	10.76	59.17	79.00	-19.83	Peak
4	0.202	32.83	0.15	10.76	43.74	66.00	-22.26	Average
5	0.270	24.14	0.14	10.75	35.03	66.00	-30.97	Average
6	0.598	44.33	0.13	10.77	55.23	73.00	-17.77	Peak
7	0.614	25.90	0.13	10.77	36.80	60.00	-23.20	Average
8	0.683	43.06	0.13	10.77	53.96	73.00	-19.04	Peak
9	0.683	26.21	0.13	10.77	37.11	60.00	-22.89	Average
10	0.948	35.69	0.13	10.85	46.67	73.00	-26.33	Peak
11	24.529	27.96	0.33	10.88	39.17	73.00	-33.83	Peak
12	24.529	22.32	0.33	10.88	33.53	60.00	-26.47	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test By:	Carey	Test mode:	Communications mode
Test Voltage:	AC 230 V/50 Hz	Phase:	Neutral



Trace: 7

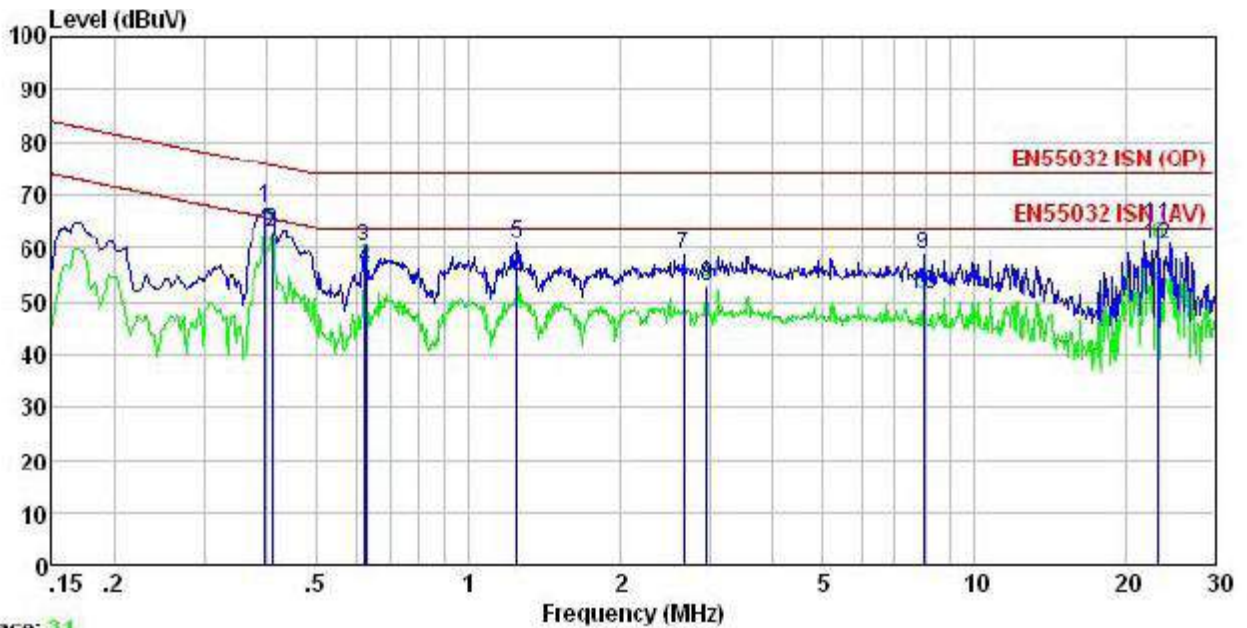
Site : CCIS Conducted test Site
 Condition : EN55032 CLASS-A QP LISN NEUTRAL
 EUT : Trunking gateway
 Model : MTG2000
 Test Mode : Communications mode
 Power Rating : AC 230V/50Hz
 Environment : Temp: 23 .5°C Humi:57% Atmos:101KPa
 Test Engineer: Yaro
 Remark : POWER B

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.190	47.66	0.93	10.76	59.35	79.00	-19.65	QP
2	0.194	28.27	0.93	10.76	39.96	66.00	-26.04	Average
3	0.230	41.74	0.94	10.75	53.43	79.00	-25.57	QP
4	0.249	41.01	0.95	10.75	52.71	79.00	-26.29	QP
5	0.270	21.62	0.96	10.75	33.33	66.00	-32.67	Average
6	0.337	19.93	0.97	10.73	31.63	66.00	-34.37	Average
7	0.595	42.38	0.97	10.77	54.12	73.00	-18.88	QP
8	0.611	24.01	0.97	10.77	35.75	60.00	-24.25	Average
9	0.683	41.48	0.97	10.77	53.22	73.00	-19.78	QP
10	0.683	24.31	0.97	10.77	36.05	60.00	-23.95	Average
11	0.890	33.97	0.97	10.84	45.78	73.00	-27.22	QP
12	0.958	18.50	0.97	10.86	30.33	60.00	-29.67	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level=Receiver Read level + LISN Factor + Cable Loss.

Test By:	Carey	Test mode:	LAN mode
Test Voltage	AC 230 V/50 Hz	Phase:	



Trace: 31
 Site : CCIS Shielding Room
 Condition : EN55032 ISN (QP) ISN CAT5
 EUT : Trunking gateway
 Model : MTG2000
 Test Mode : LAN mode
 Power Rating : AC 230V/50Hz
 Environment : Temp: 23.5°C Humi:57% Atmos:101KPa
 Test Engineer: Yaro
 Remark :

	Read Freq	Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.398	46.94	9.82	10.72	67.48	75.90	-8.42	QP
2	0.410	42.71	9.81	10.72	63.24	65.64	-2.40	Average
3	0.621	39.71	9.71	10.77	60.19	74.00	-13.81	QP
4	0.627	35.68	9.70	10.77	56.15	64.00	-7.85	Average
5	1.249	40.26	9.58	10.90	60.74	74.00	-13.26	QP
6	1.249	33.98	9.58	10.90	54.46	64.00	-9.54	Average
7	2.664	38.11	9.49	10.93	58.53	74.00	-15.47	QP
8	2.946	32.37	9.48	10.92	52.77	64.00	-11.23	Average
9	7.935	38.50	9.42	10.85	58.77	74.00	-15.23	QP
10	7.935	31.01	9.42	10.85	51.28	64.00	-12.72	Average
11	23.140	44.00	9.42	10.89	64.31	74.00	-9.69	QP
12	23.140	40.19	9.42	10.89	60.50	64.00	-3.50	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

6.1.3 Harmonics Test Result

Test Requirement:	EN 61000-3-2
Test Method:	N/A: See Remark Below
Remark	<p>There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with EN 61000-3-2. For further details, please refer to Clause 7, Note 1 of EN 61000-3-2 which states:</p> <p>“For the following categories of equipment limits are not specified in this edition of the standard.</p> <p>Note 1: Equipment with a rated power of 75W or less, other than lighting equipment.”</p>

6.1.4 Flicker Test Result

Test Requirement:	EN 61000-3-3
Test Method:	EN 61000-3-3
Remark:	As the section 6.1 of EN 6100-3-3, “Devices and Equipment that do(with the utmost probability) not generate relevant voltage fluctuations or flicker need not to be tested”.

6.2 EMS (Immunity)

6.2.1 Performance Criteria Description in EN 55035

<p>Criterion A:</p>	<p>The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. 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 by what the user may reasonably expect from the equipment if used as intended.</p>
<p>Criterion B:</p>	<p>After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.</p> <p>During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.</p> <p>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 by what the user may reasonably expect from the equipment if used as intended.</p>
<p>Criterion C:</p>	<p>Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.</p> <p>Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.</p>

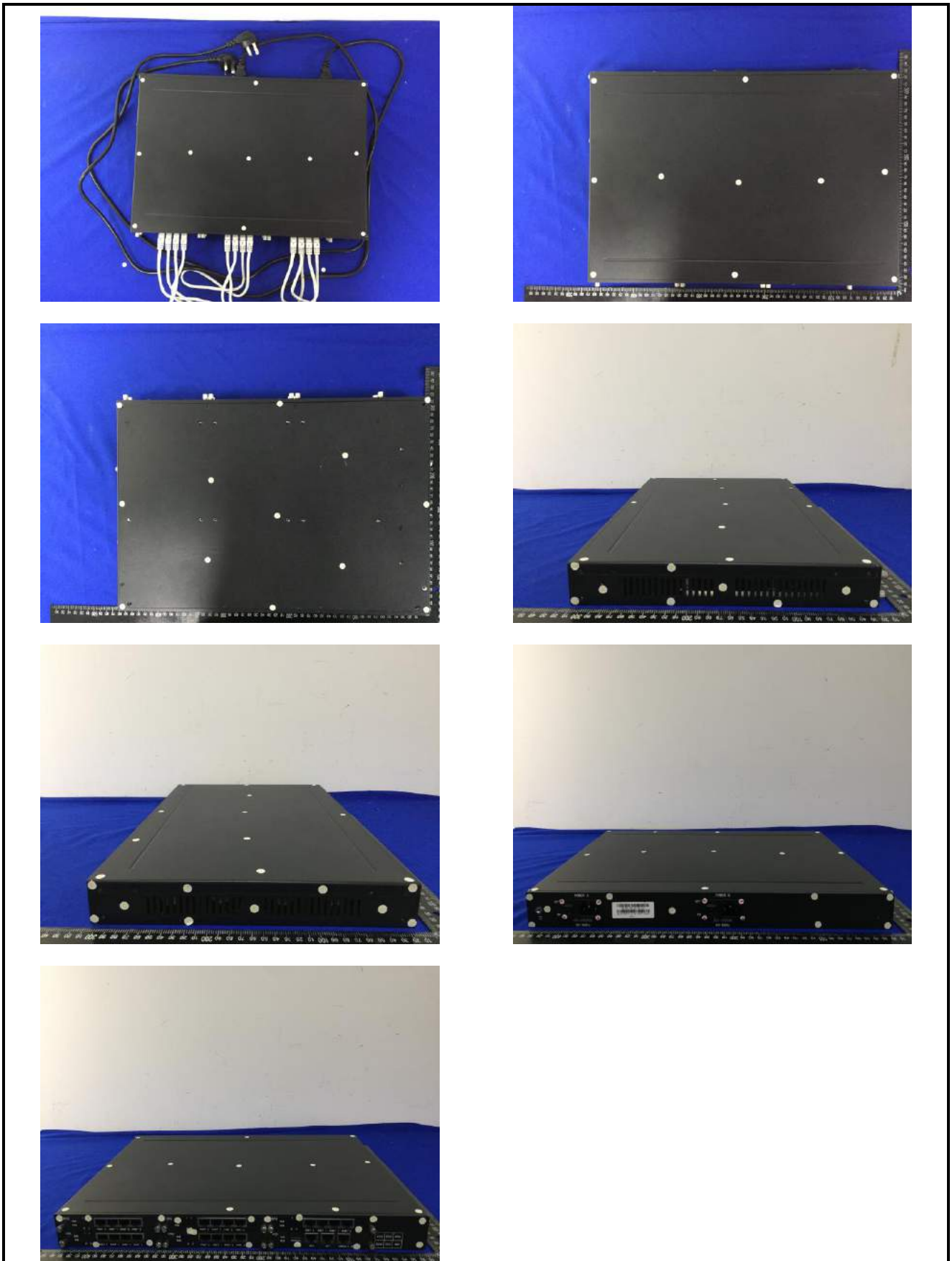
6.2.2 Electrostatic Discharge

Test Requirement:	EN 55035
Test Method:	EN 61000-4-2
Discharge Voltage:	Contact Discharge, HCP and VCP: $\pm 2\text{kV}$, $\pm 4\text{kV}$, Air Discharge: $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$
Polarity:	Positive & Negative
Number of Discharge:	Contact Discharge: Minimum 25 times at each test point, Air Discharge: Minimum 10 times at each test point.
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum
Testsetup:	
Test Procedure:	<p>1) Air discharge: The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure was repeated until all the air discharge completed</p> <p>2) Contact discharge: The test was applied on conductive surfaces of EUT. the generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. the tip of the discharge electrode was touch the EUT before the discharge switch was operated.</p> <p>3) Indirect discharge for horizontal coupling plane At least 10 single discharges shall be applied at the front edge of each HCP opposite the centre point of each unit 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. Consideration should be given to exposing all sides of the EUT.</p> <p>4) Indirect discharge for vertical coupling plane At least 10 single discharges were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.</p>
Test environment:	Temp.: 26°C Humid.: 54% Press.: 101kPa
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Record:

Test points:	I: Please refer to red arrows as below plots			
	II: Please refer to yellow arrows as below plots			
Direct discharge				
Discharge Voltage (KV)	Type of discharge	Test points	Observations (Performance Criterion)	Result
± 2, ± 4	Contact	II	A	Pass
± 2, ± 4, ± 8	Air	I	A	Pass
Indirect discharge				
Discharge Voltage (KV)	Type of discharge	Test points	Observation Performance	Result
± 2, ± 4	HCP-Bottom/Top/ Front/Back/Left/Right	Edge of the HCP	A	Pass
± 2, ± 4	VCP-Front/Back /Left/Right	Center of the VCP	A	Pass
<p><i>Remark:</i></p> <ol style="list-style-type: none"> <i>A: No degradation in performance of the EUT was observed.</i> <i>Red arrow: Air discharge test points.</i> <i>Yellow arrow: Contact discharge test points.</i> 				

ESD Test points as below:



6.2.3 Continuous RF electromagnetic radiated field disturbances

Test Requirement:	EN 55035					
Test Method:	EN 61000-4-3					
Frequency range:	Swept test: 80MHz to 1GHz Spot test: 1800MHz, 2600MHz, 3500MHz, 5000MHz					
Test Level:	3V/m					
Modulation:	80%, 1kHz Amplitude Modulation					
Performance Criterion:	Criteria A					
Test setup:						
Test Procedure:	<ol style="list-style-type: none"> 1. For table-top equipment, the EUT was placed in the chamber on a non-conductive table 0.8m high. For arrangement of floor-standing equipment, the EUT was mounted on a non-conductive support 0.1m above the supporting plane. For human body-mounted equipment, the EUT may be tested in the same manner as table top items. 2. If possible, a minimum of 1 m of cable is exposed to the electromagnetic field. Excess length of cables interconnecting units of the EUT shall be bundled low-inductively in the approximate center of the cable to form a bundle 30 cm to 40 cm in length. 3. The EUT was initially placed with one face coincident with the calibration plane. The EUT face being illuminated was contained within the UFA (Uniform Field Area). 4. The frequency ranges to be considered were swept with the signal modulated and pausing to adjust the RF signal level or to switch oscillators and antennas as necessary. Where the frequency range was swept incrementally, the step size was not exceed 1 % of the preceding frequency value. 5. The dwell time of the amplitude modulated carrier at each frequency was not be less than the time necessary for the EUT to be exercised and to respond, and was not less than 5 s. 6. The test normally was performed with the generating antenna facing each side of the EUT. 7. The polarization of the field generated by each antenna necessitates testing each selected side twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. 8. The EUT was performed in a configuration to actual installation conditions, a video camera and/or a audio monitor were used to monitor the performance of the EUT. 					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Record:

Continuous RF electromagnetic radiated field disturbances swept test

Frequency	Level	Modulation	Antenna Polarization	EUT Face	Observations (Performance Criterion)	Result
80 MHz-1 GHz	3 V/m	1 kHz, 80 % Amp. Mod, 1 % increment, dwell time=5seconds	V	Front	A	Pass
			H		A	Pass
			V	Rear	A	Pass
			H		A	Pass
			V	Left	A	Pass
			H		A	Pass
			V	Right	A	Pass
			H		A	Pass
			V	Top	A	Pass
			H		A	Pass
			V	Bottom	A	Pass
			H		A	Pass

Remarks:

A: No degradation in the performance of the E.U.T. was observed.

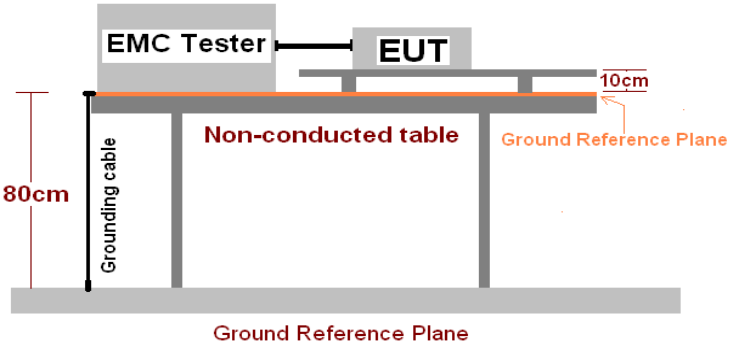
Continuous RF electromagnetic radiated field disturbances spot test

Frequency (+/-1%)	Level	Modulation	Antenna Polarization	EUT Face	Observations (Performance Criterion)	Result
1800MHz, 2600MHz, 3500MHz, 5000MHz	3V/m	1 kHz, 80 % Amp. Mod, 1 % increment, dwell time=5seconds	V	Front	A	Pass
			H		A	Pass
			V	Rear	A	Pass
			H		A	Pass
			V	Left	A	Pass
			H		A	Pass
			V	Right	A	Pass
			H		A	Pass
			V	Top	A	Pass
			H		A	Pass
			V	Bottom	A	Pass
			H		A	Pass

Remarks:

A: No degradation in the performance of the E.U.T. was observed.

6.2.4 Electrical Fast Transients

Test Requirement:	EN 55035
Test Method:	EN 61000-4-4
Test Level:	1.0kV on AC port
Polarity:	Positive & Negative
Repetition Frequency:	5kHz
Burst Duration:	15ms
Burst Period:	300ms
Test Duration:	2 minute per level & polarity
Performance Criterion:	B
Test setup:	 <p>The diagram illustrates the test setup. An EMC Tester and an EUT (Under Test) are placed on a non-conducted table. The table is 80cm high. A ground reference plane is positioned 10cm above the top surface of the table. A grounding cable is connected to the table. The EUT and its simulators are placed on the ground reference plane and are insulated from it by a wood support 0.1m + 0.01m thick. The ground reference plane is a 1m*1m metallic sheet with 0.65mm minimum thickness, projecting beyond the EUT by at least 0.1m on all sides. The minimum distance between the EUT and all other conductive structures, except the ground plane, is more than 0.5m. All cables to the EUT are placed on the wood support, and cables not subject to EFT/B are routed as far as possible from the cable under test to minimize coupling.</p>
Test Procedure:	<p>The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support 0.1m + 0.01m thick. The ground reference plane was 1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane was 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 was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.</p> <p>Test on Signal Ports, Telecommunication Ports and Control Ports: The EFT interference signal is through a coupling clamp device couples to the signal and control lines of the EUT with burst noise for 2 minutes.</p> <p>Test on power supply ports: The EUT is connected to the power mains through a coupling device that directly couples the EFT/B interference signal. Each of the Line and Neutral conductors is impressed with burst noise for 2 minutes. The length of the signal and power lines between the coupling device and the EUT is 0.5m</p>
Test environment:	Temp.: 25°C Humid.: 63% Press.: 1 050mbar
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Record:

Power A:

Lead under Test	Level (kV)	Coupling Direct/Clamp	Observations (Performance Criterion)	Result
L	± 1.0	Direct	TT/TR	Pass
N	± 1.0	Direct	TT/TR	Pass
PE	± 1.0	Direct	TT/TR	Pass
L-N	± 1.0	Direct	TT/TR	Pass
L-PE	± 1.0	Direct	TT/TR	Pass
N-PE	± 1.0	Direct	TT/TR	Pass
L-N-PE	± 1.0	Direct	TT/TR	Pass
LAN Port	± 0.5	Direct	TT/TR	Pass
Remark: A: No degradation in the performance of the E.U.T. was observed.				

Power B:

Lead under Test	Level (kV)	Coupling Direct/Clamp	Observations (Performance Criterion)	Result
L	± 1.0	Direct	TT/TR	Pass
N	± 1.0	Direct	TT/TR	Pass
PE	± 1.0	Direct	TT/TR	Pass
L-N	± 1.0	Direct	TT/TR	Pass
L-PE	± 1.0	Direct	TT/TR	Pass
N-PE	± 1.0	Direct	TT/TR	Pass
L-N-PE	± 1.0	Direct	TT/TR	Pass
LAN Port	± 0.5	Direct	TT/TR	Pass
Remark: A: No degradation in the performance of the E.U.T. was observed.				

6.2.5 Surge

Test Requirement:	EN 55035
Test Method:	EN 61000-4-5
Test Level:	± 1 kV Live to Neutral: Differential mode ± 2 kV Live to Earth or Neutral to Earth: Common mode
Polarity:	Positive & Negative
Generator source impedance:	2Ω (line-line coupling)
Test Interval:	60s between each surge
No. of surges:	5 positive, 5 negative at 0°, 90°, 180°, 270°.
Performance Criterion:	B
Test setup:	<p>The diagram illustrates the test setup. An EMC Tester and the Equipment Under Test (EUT) are positioned on a non-conducted table. The table is supported by legs and has a height of 80cm. A grounding cable is connected to the table. A ground reference plane is located 10cm below the table surface. The EUT is also on a ground reference plane.</p>
Test Procedure:	<ol style="list-style-type: none"> 1) For line-to-line coupling mode, provide a 1kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral lines to ground are same except test level is 2kV. 2) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are applied during test. 3) Different phase angles are done individually. 4) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.
Test environment:	Temp.: 26 °C Humid.: 53% Press.: 1 012mbar
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Record:

Power A:

Location	Level(kV)	Pulse No	Surge Interval	Phase(deg)	Observations (Performance Criterion)	Result
L-N	± 1	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
L-PE	± 2	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
N-PE	± 2	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
L-N-PE	± 2	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
LAN Port	± 1	5	60s	/	TT/TR	Pass
Remark: A: During the test, The EUT works normal, and after the test, the function of the EUT is normal.						

Power B:

Location	Level(kV)	Pulse No	Surge Interval	Phase(deg)	Observations (Performance Criterion)	Result
L-N	± 1	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
L-PE	± 2	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
N-PE	± 2	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
L-N-PE	± 2	5	60s	0°	TT/TR	Pass
				90°		
				180°		
				270°		
LAN Port	± 1	5	60s	/	TT/TR	Pass
Remark: A: During the test, The EUT works normal, and after the test, the function of the EUT is normal.						

6.2.6 Continuous induced RF disturbances

Test Requirement:	EN 55035
Test Method:	EN 61000-4-6
Frequency range:	0.15MHz to 80MHz
Test Level:	0.15-10MHz: 3V 10-30MHz: 3-1V 30-80MHz: 1V
Modulation:	80%, 1kHz Amplitude Modulation
Performance Criterion:	Criteria A
Test setup:	
Test Procedure:	<ol style="list-style-type: none"> 1) Let the EUT work in test mode and test it. 2) 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). 3) The disturbance signal described below is injected to EUT through CDN. 4) The EUT operates within its operational mode(s) under intended climatic conditions after power on. 5) The frequency range is swept from 0.150MHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave. 6) 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. 7) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.
Test environment:	Temp.: 24 °C Humid.: 51% Press.: 1 012mbar
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Record:

Power A:

Frequency	Injected Position	Test Level	Modulation	Step Size	Dwell Time	Observations (Performance Criterion)	Result
150kHz to 10MHz	AC Main	3V	80%, 1kHz Amp. Mod.	1%	2s	A	Pass
10MHz to 30MHz		3V to1V				A	Pass
30MHz to 80MHz		1V				A	Pass
150kHz to 10MHz	LAN Port	3V	80%, 1kHz Amp. Mod.	1%	2s	A	Pass
10MHz to 30MHz		3V to1V				A	Pass
30MHz to 80MHz		1V				A	Pass
<i>Remark:</i> A: No loss of function was observed.							

Power B:

Frequency	Injected Position	Test Level	Modulation	Step Size	Dwell Time	Observations (Performance Criterion)	Result
150kHz to 10MHz	AC Main	3V	80%, 1kHz Amp. Mod.	1%	2s	A	Pass
10MHz to 30MHz		3V to1V				A	Pass
30MHz to 80MHz		1V				A	Pass
150kHz to 10MHz	LAN Port	3V	80%, 1kHz Amp. Mod.	1%	2s	A	Pass
10MHz to 30MHz		3V to1V				A	Pass
30MHz to 80MHz		1V				A	Pass
<i>Remark:</i> A: No loss of function was observed.							

6.2.7 Power frequency magnetic field

Test Requirement:	EN 55035						
Test Method:	EN 61000-4-8						
Test Frequency:	50/60 Hz						
Test Level:	1 A/m						
Performance Criterion:	Criteria A						
Test setup:							
Test Procedure:	<p>The EUT place center of the test magnetic field coils.</p> <p>The plane of the inductive coil shall then be rotated by 90° in order to expose the EUT to the test field with different orientations.</p> <p>The signal generator generates a magnetic field of 1A/m for testing.</p>						
Test environment:	<table border="1"> <tr> <td>Temp.:</td> <td>24 °C</td> <td>Humid.:</td> <td>51%</td> <td>Press.:</td> <td>1 012mbar</td> </tr> </table>	Temp.:	24 °C	Humid.:	51%	Press.:	1 012mbar
Temp.:	24 °C	Humid.:	51%	Press.:	1 012mbar		
Test Instruments:	Refer to section 5.10 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

Measurement Record:

Test Frequency (Hz)	Test Level (A/m)	Observations (Performance Criterion)	Result
50	1	A	Pass
60	1	A	Pass

Remark:
A: No loss of function was observed.

6.2.8 Voltage Dip and Voltage Interruptions

Test Requirement:	EN 55035
Test Method:	EN 61000-4-11
Test Level:	0% of VT(Supply Voltage) for 0.5 period 70% of VT(Supply Voltage) for 25 period 0% of VT(Supply Voltage) for 250 period
No. of Dips / Interruptions:	3 per Level
Performance Criterion:	>95% VD, 0.5 period----Performance criterion: B 30% VD, 25 period----Performance criterion: C >95% VI, 250 period----Performance criterion: C
Test setup:	<p>The diagram shows a test setup on a non-conducted table. The table is 80cm high. An EMC Tester and EUT are placed on the table. A grounding cable is connected to the table. A ground reference plane is located 10cm above the table surface.</p>
Test Procedure:	<ol style="list-style-type: none"> 1) The EUT and test generator were setup as shown on above setup photo. 2) The interruptions are introduced at selected phase angles with specified duration. 3) Record any degradation of performance.
Test environment:	Temp.: 25°C Humid.: 63% Press.: 1050mbar
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Record:

Power A:

Test Level % U _T	Duration (Periods)	Phase angle	No of dropout	Time between dropout	Observations (Performance Criterion)	Result
0	0.5	0°, 90°, 180°, 270°	3	10ms	A	Pass
70	25	0°, 90°, 180°, 270°	3	500ms	A	Pass
0	250	0°, 90°, 180°, 270°	3	5000ms	B	Pass

Remark:
A: No loss of function was observed.
B: After the test, the equipment can operate as intended without operator intervention. No loss of function was observed.

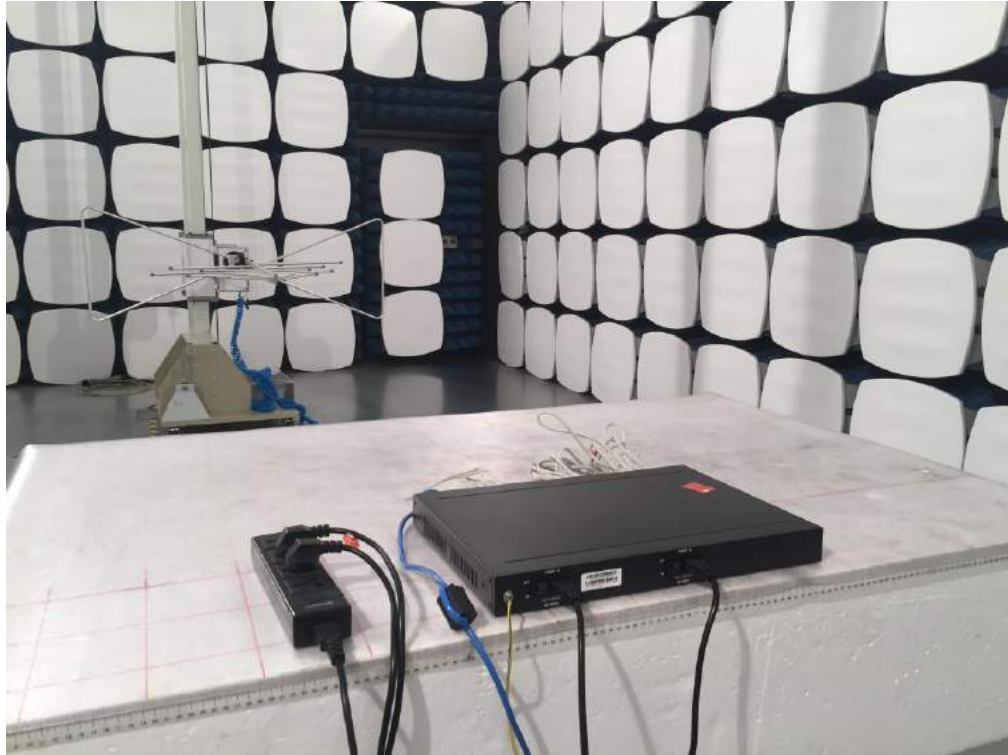
Power B:

Test Level % U _T	Duration (Periods)	Phase angle	No of dropout	Time between dropout	Observations (Performance Criterion)	Result
0	0.5	0°, 90°, 180°, 270°	3	10ms	A	Pass
70	25	0°, 90°, 180°, 270°	3	500ms	A	Pass
0	250	0°, 90°, 180°, 270°	3	5000ms	B	Pass

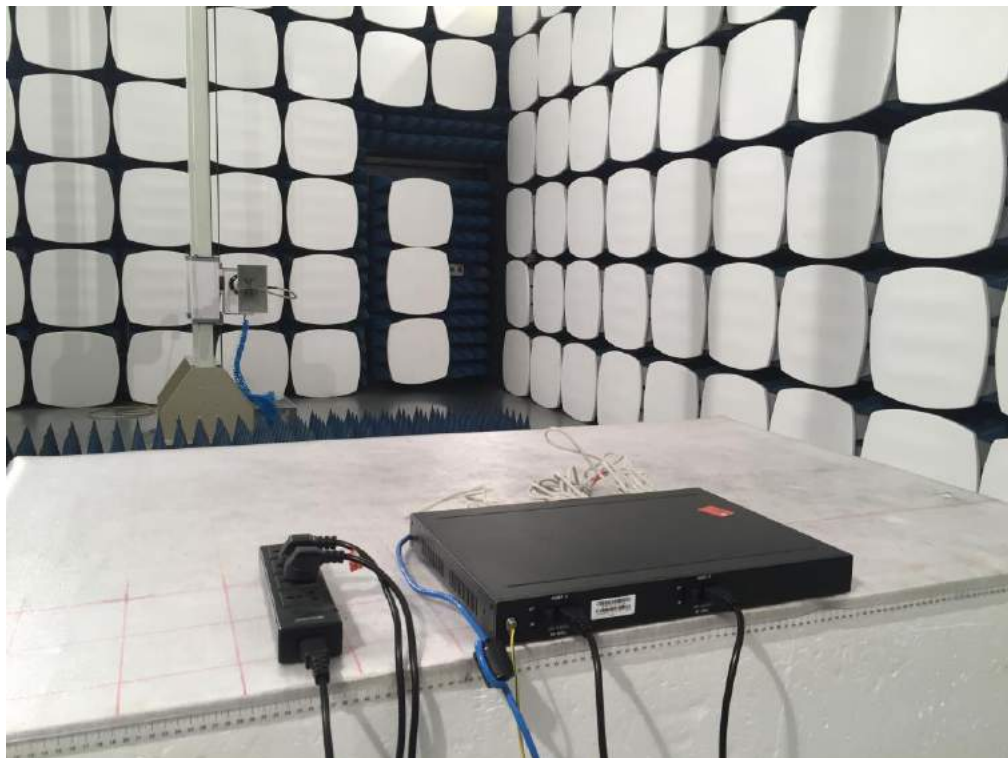
Remark:
A: No loss of function was observed.
B: After the test, the equipment can operate as intended without operator intervention. No loss of function was observed.

7 Test Setup Photo

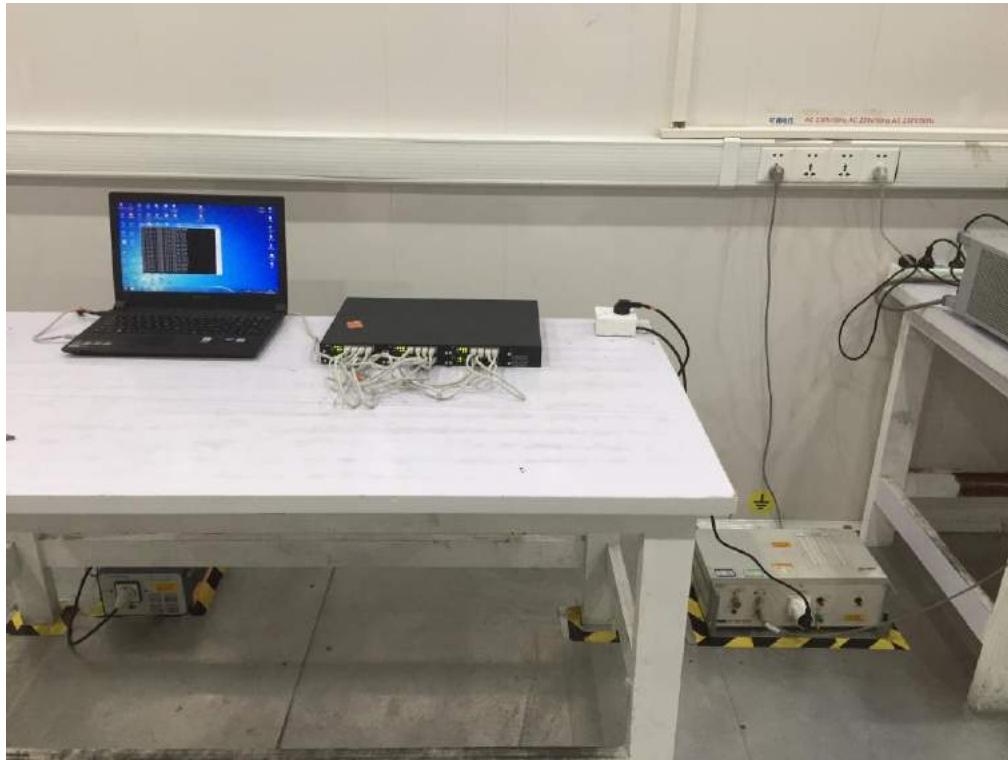
Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



Conducted Emission– Power A



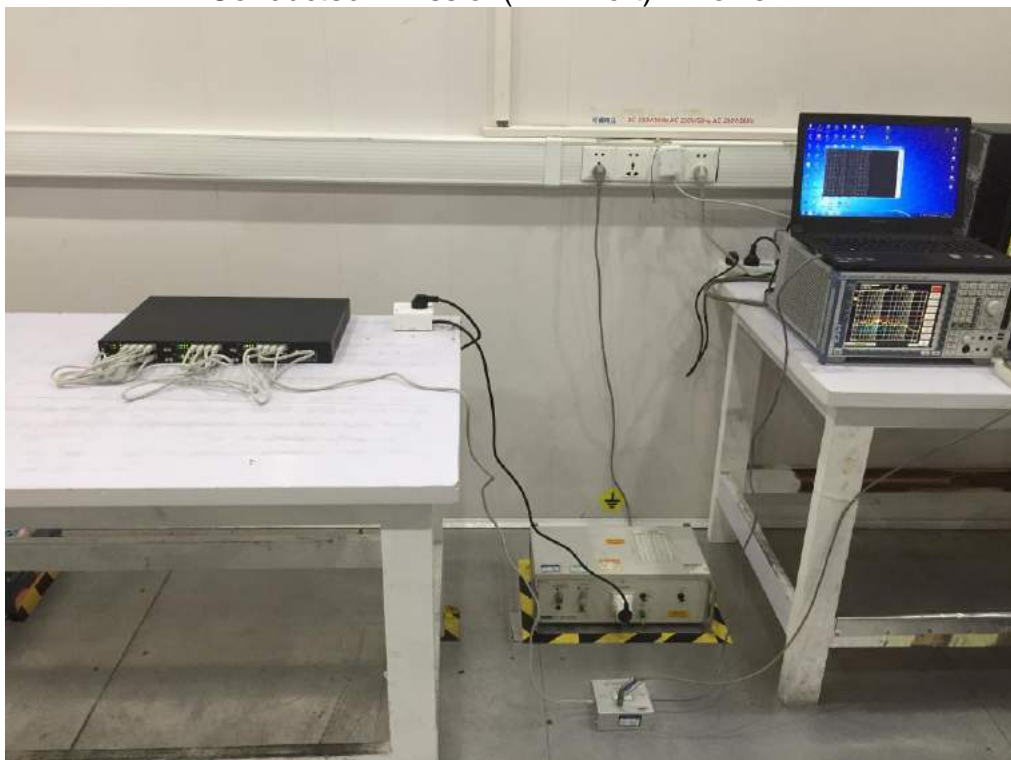
Conducted Emission(LAN Port) – Power A



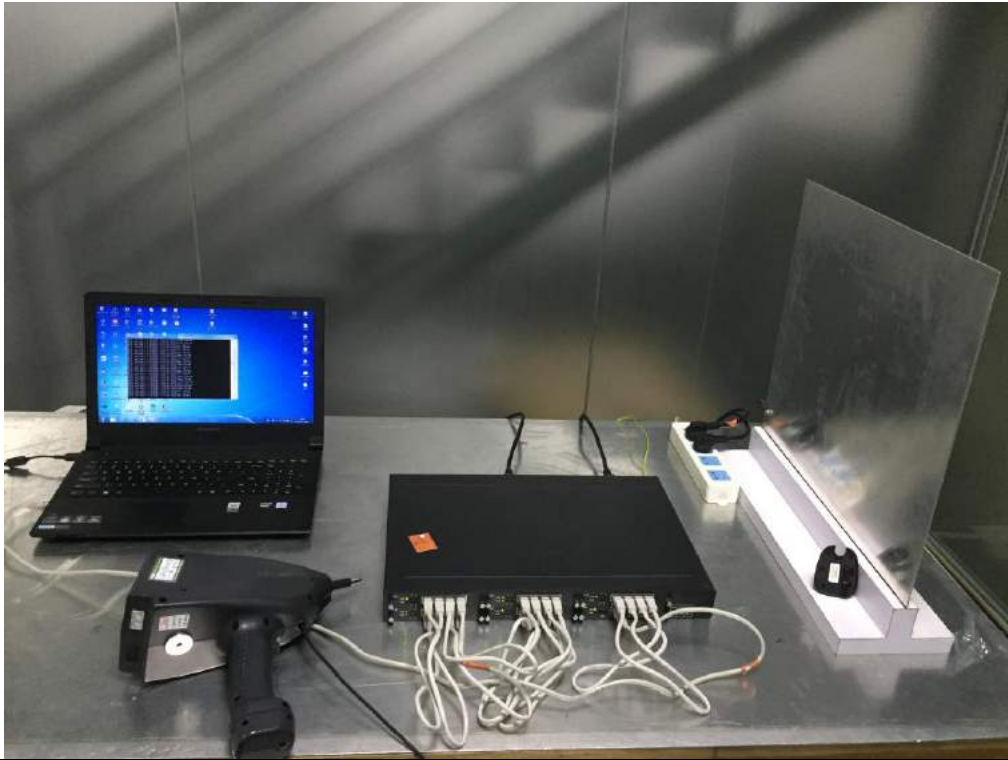
Conducted Emission – Power B



Conducted Emission(LAN Port) – Power B



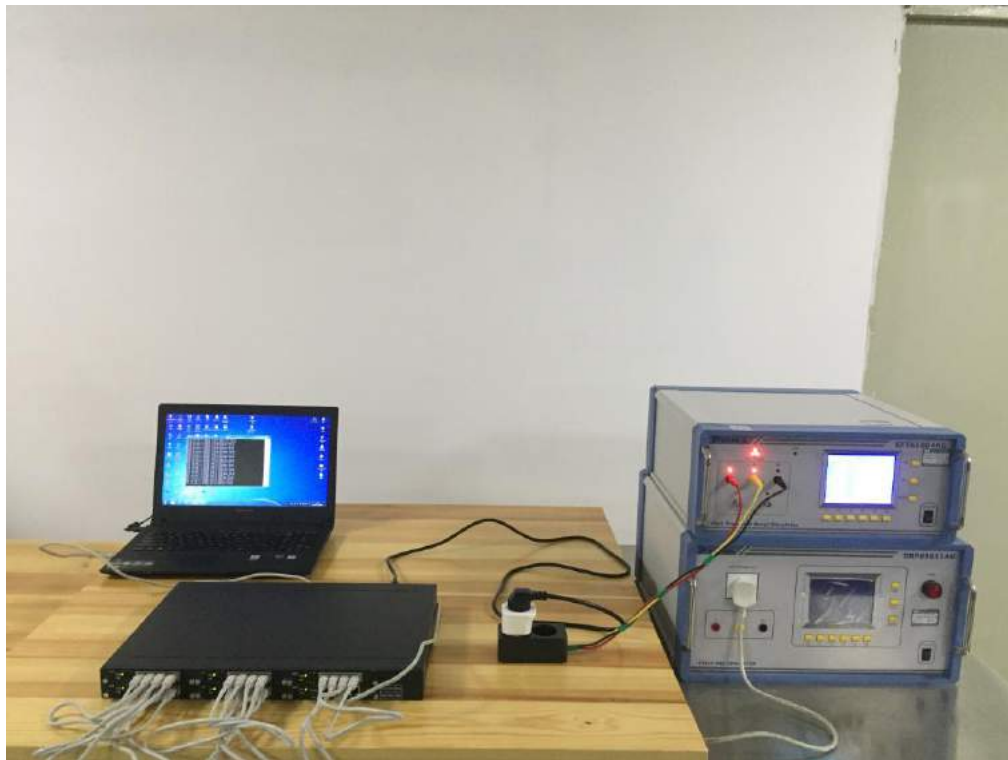
ESD



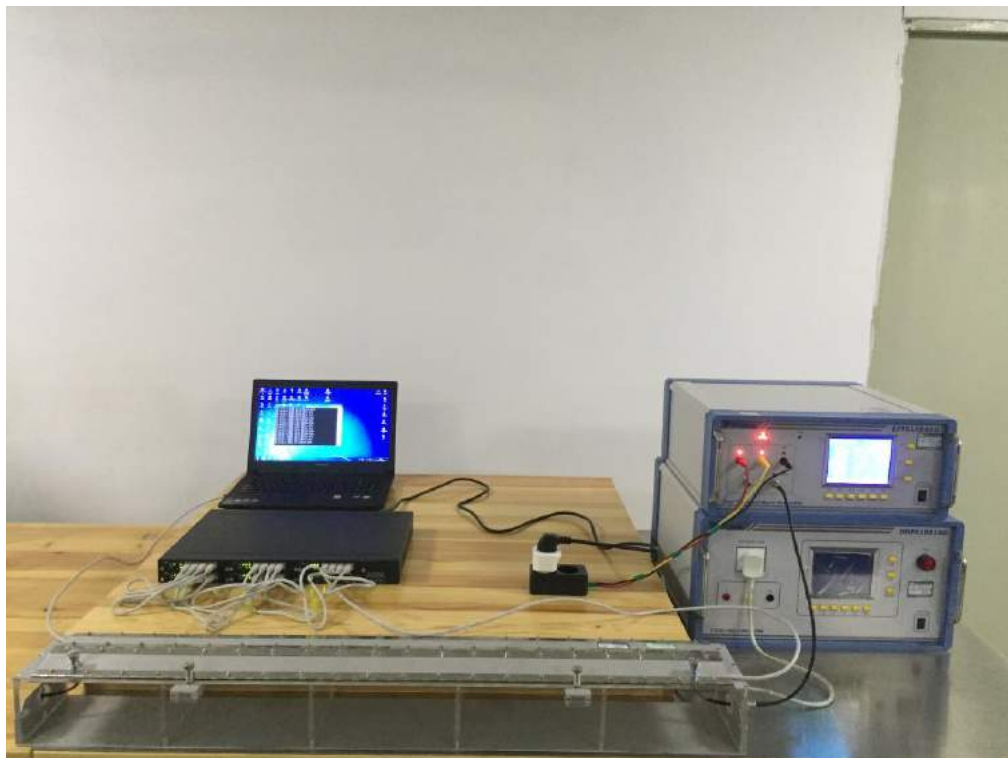
R/S



EFT/B - Power A



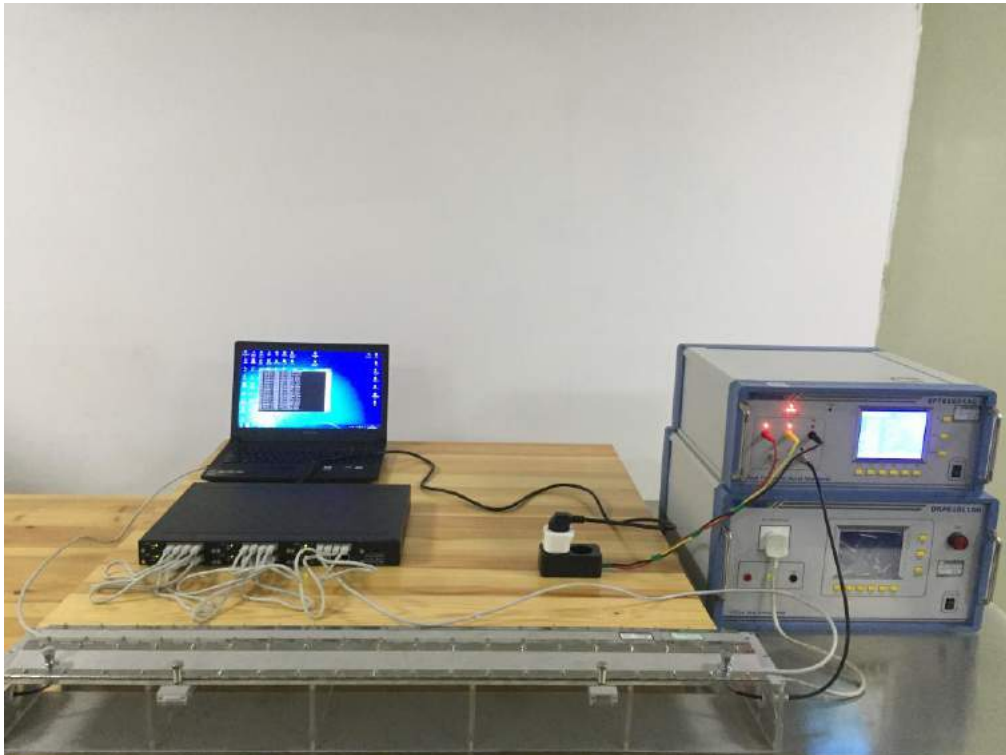
EFT/B(LAN Port) - Power A



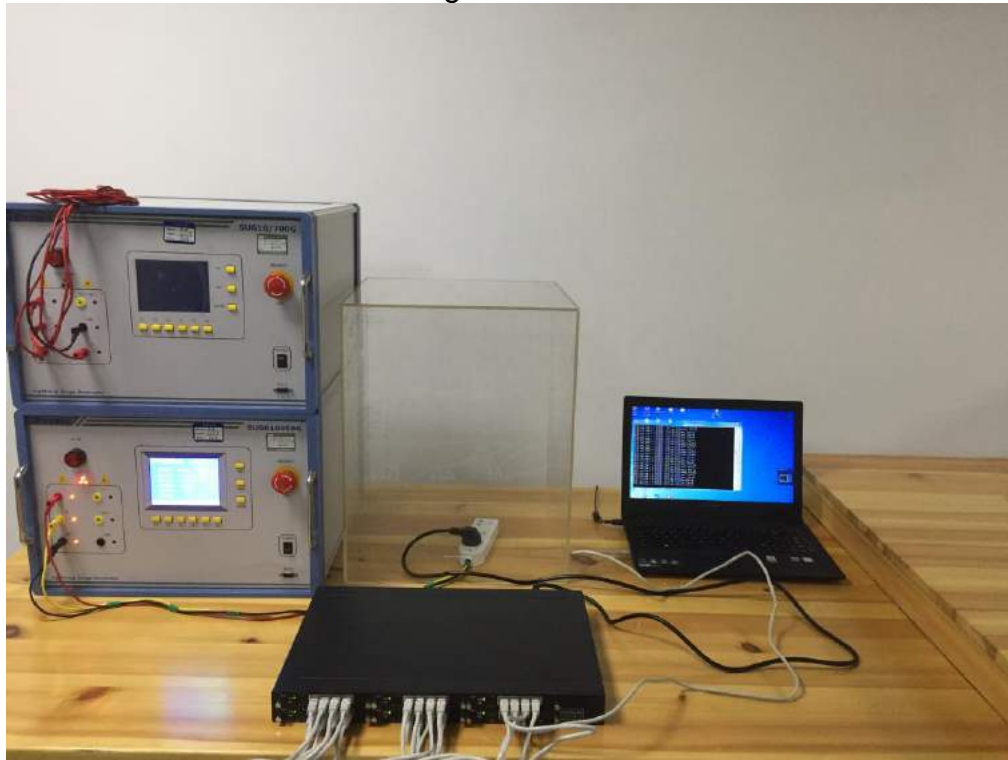
EFT/B - Power B



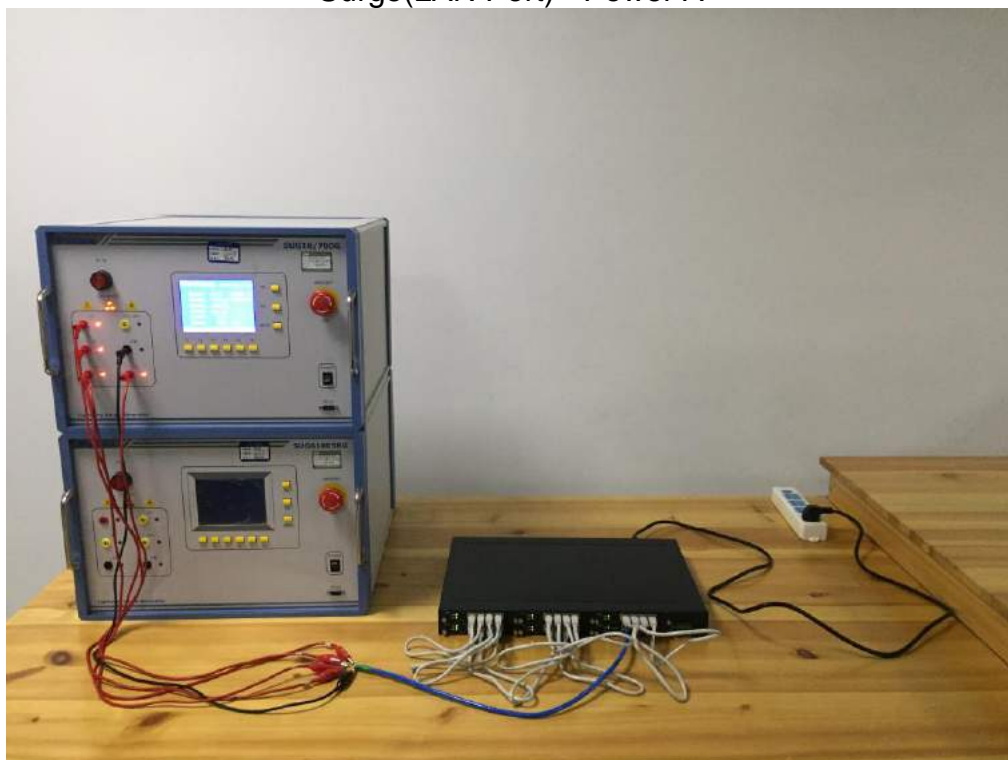
EFT/B(LAN Port) - Power B



Surge - Power A



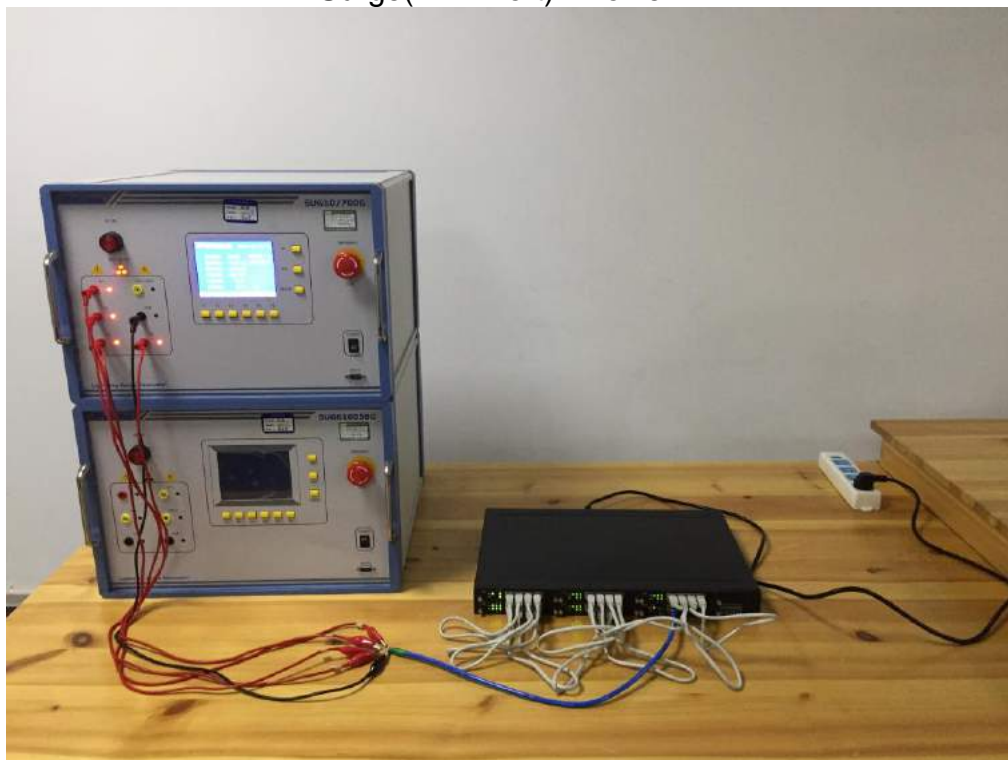
Surge(LAN Port) - Power A



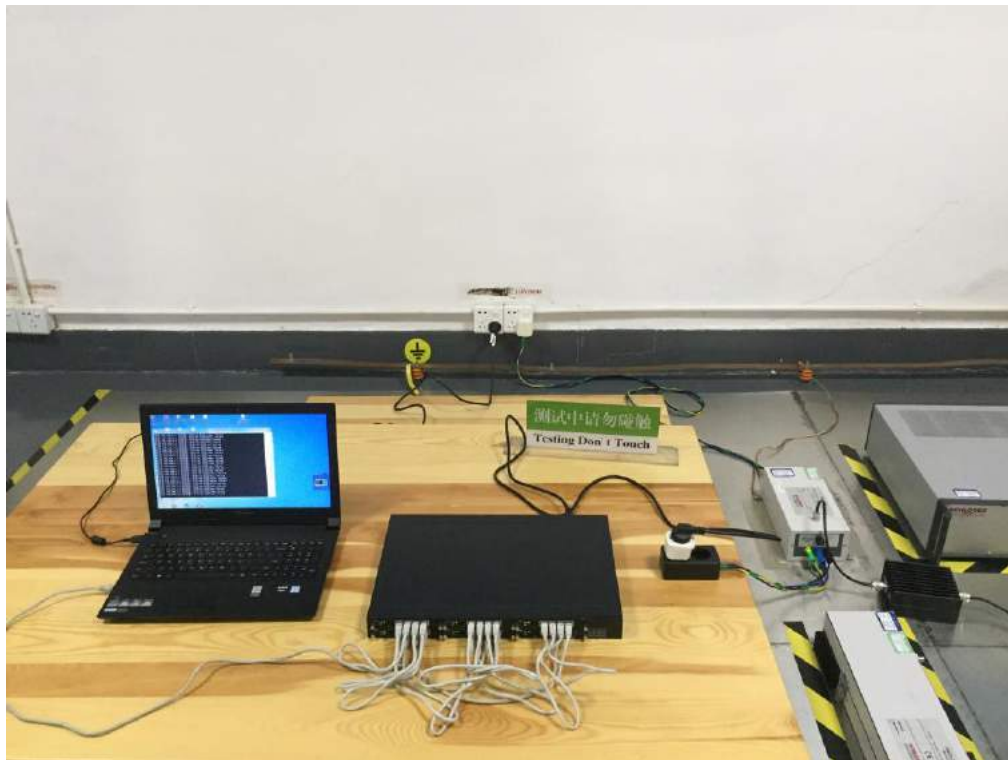
Surge - Power B



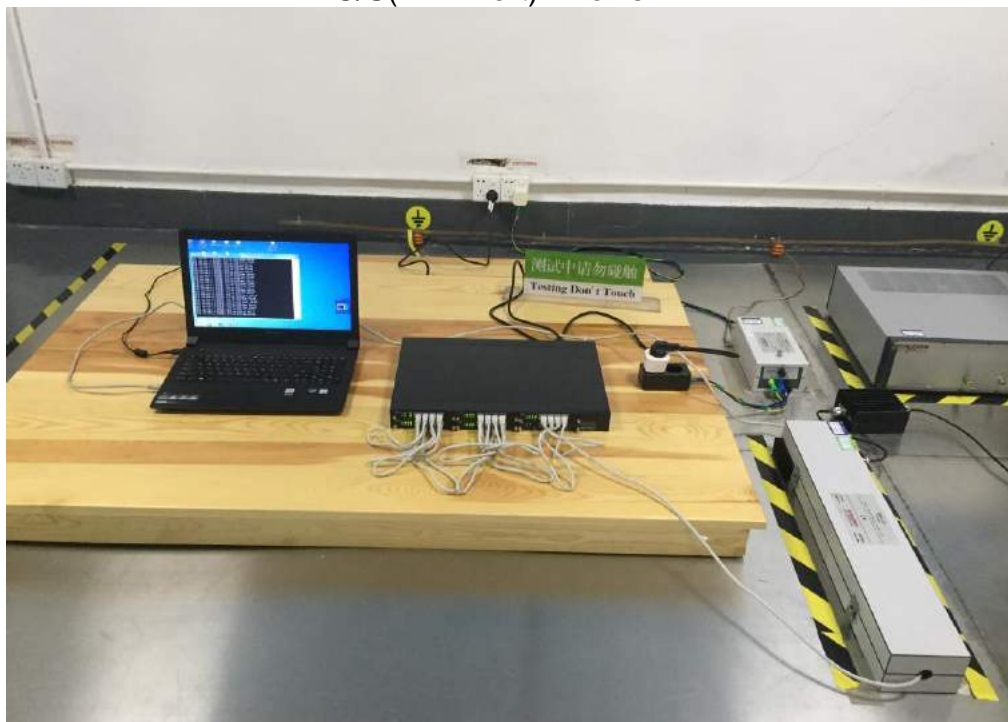
Surge(LAN Port) - Power B



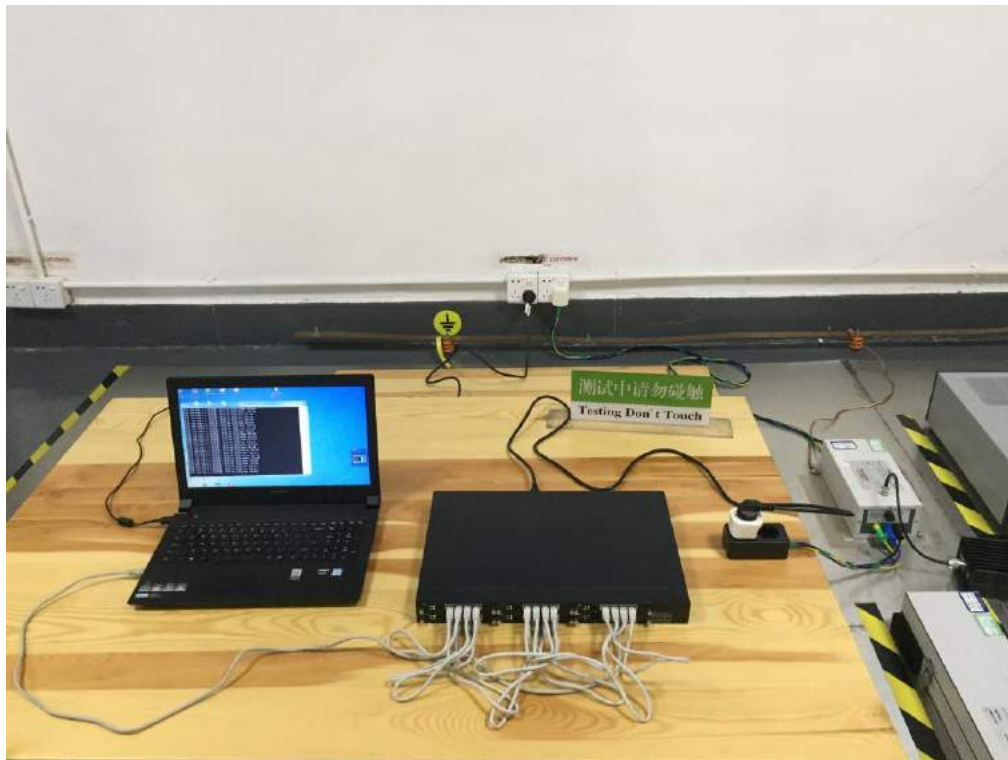
C/S - Power A



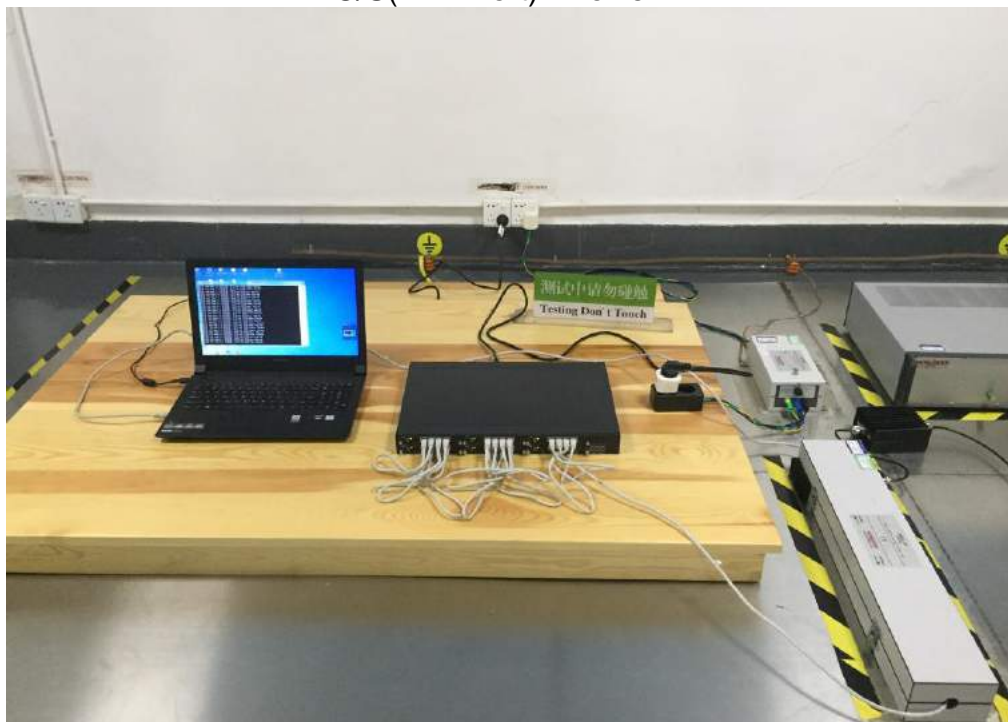
C/S(LAN Port) - Power A



C/S - Power B



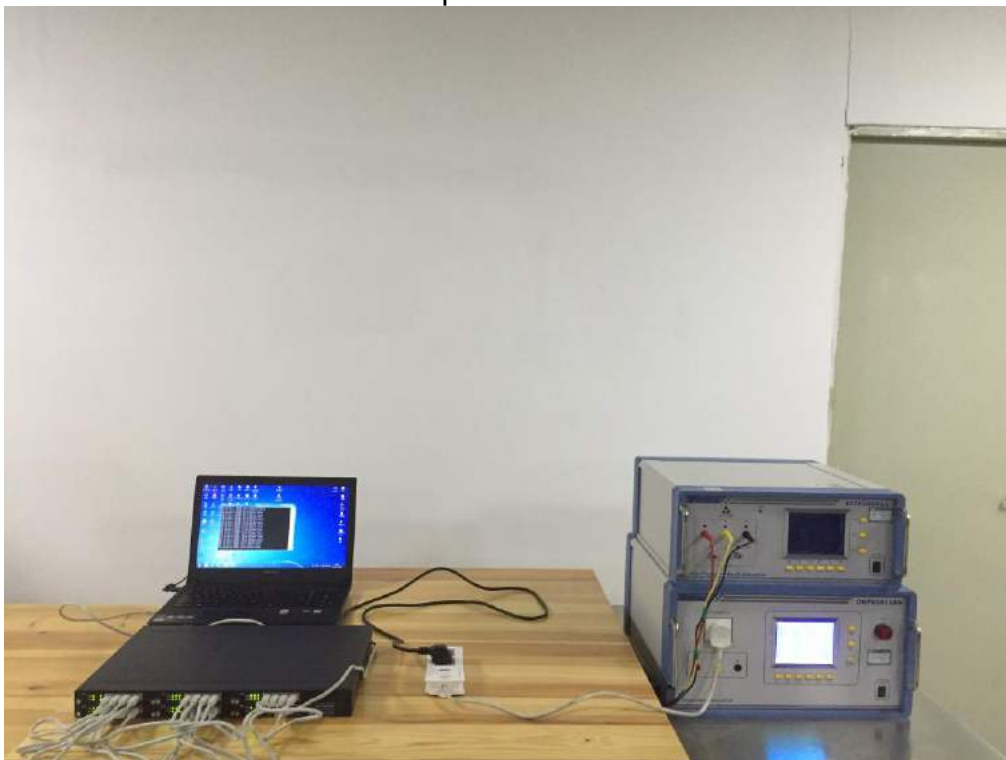
C/S(LAN Port) - Power B



PFMF



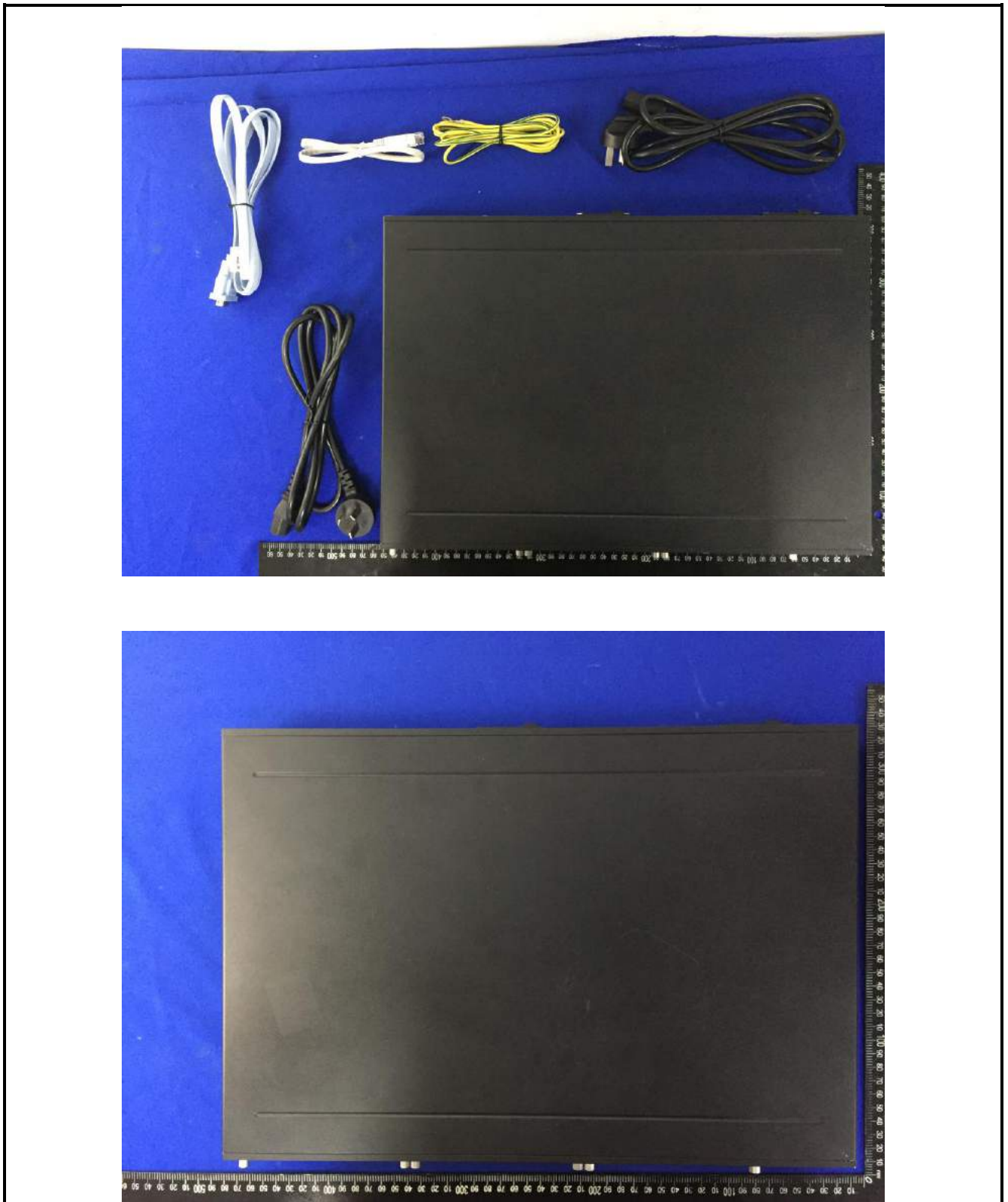
V-dips – Power A

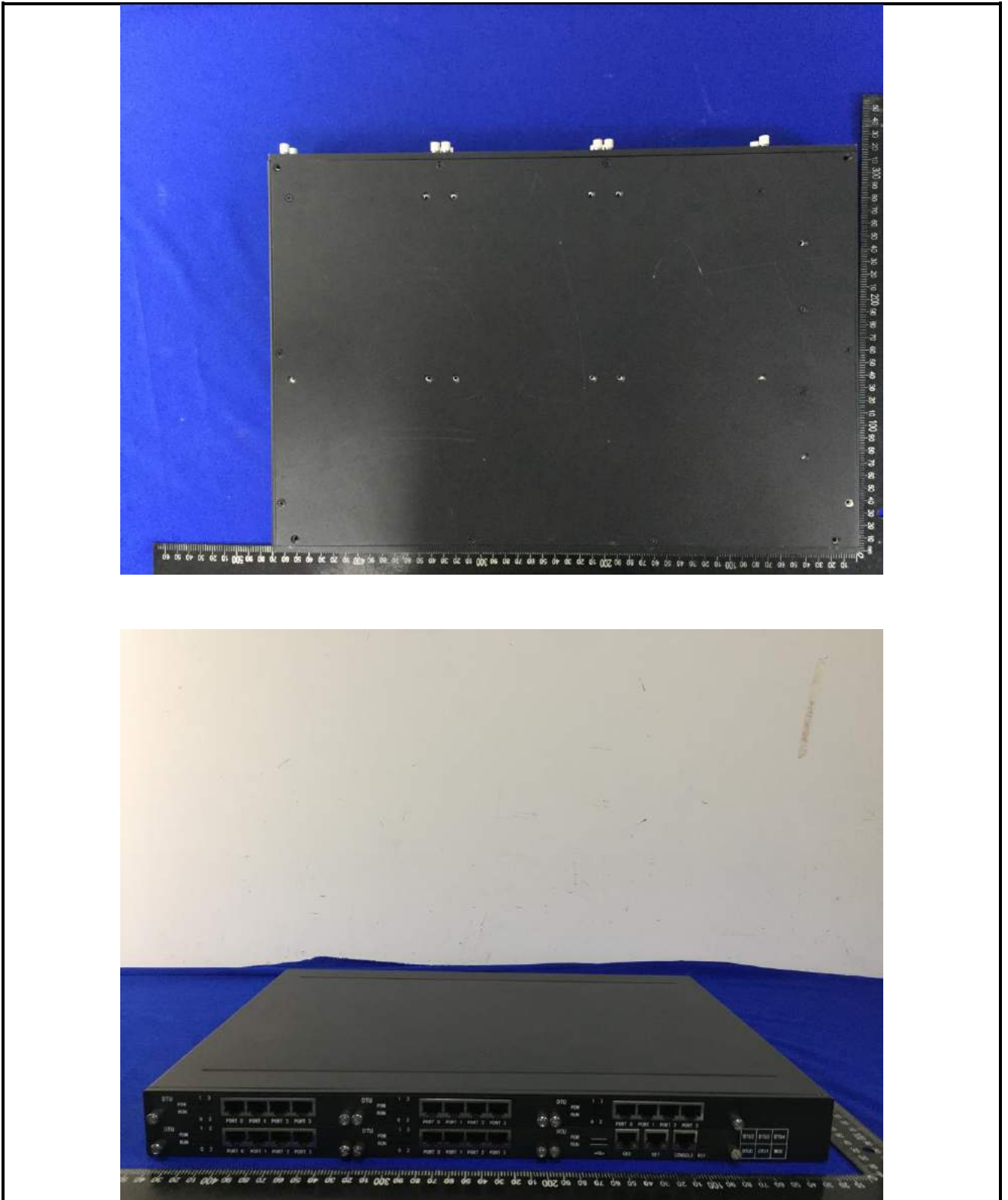


V-dips- Power B



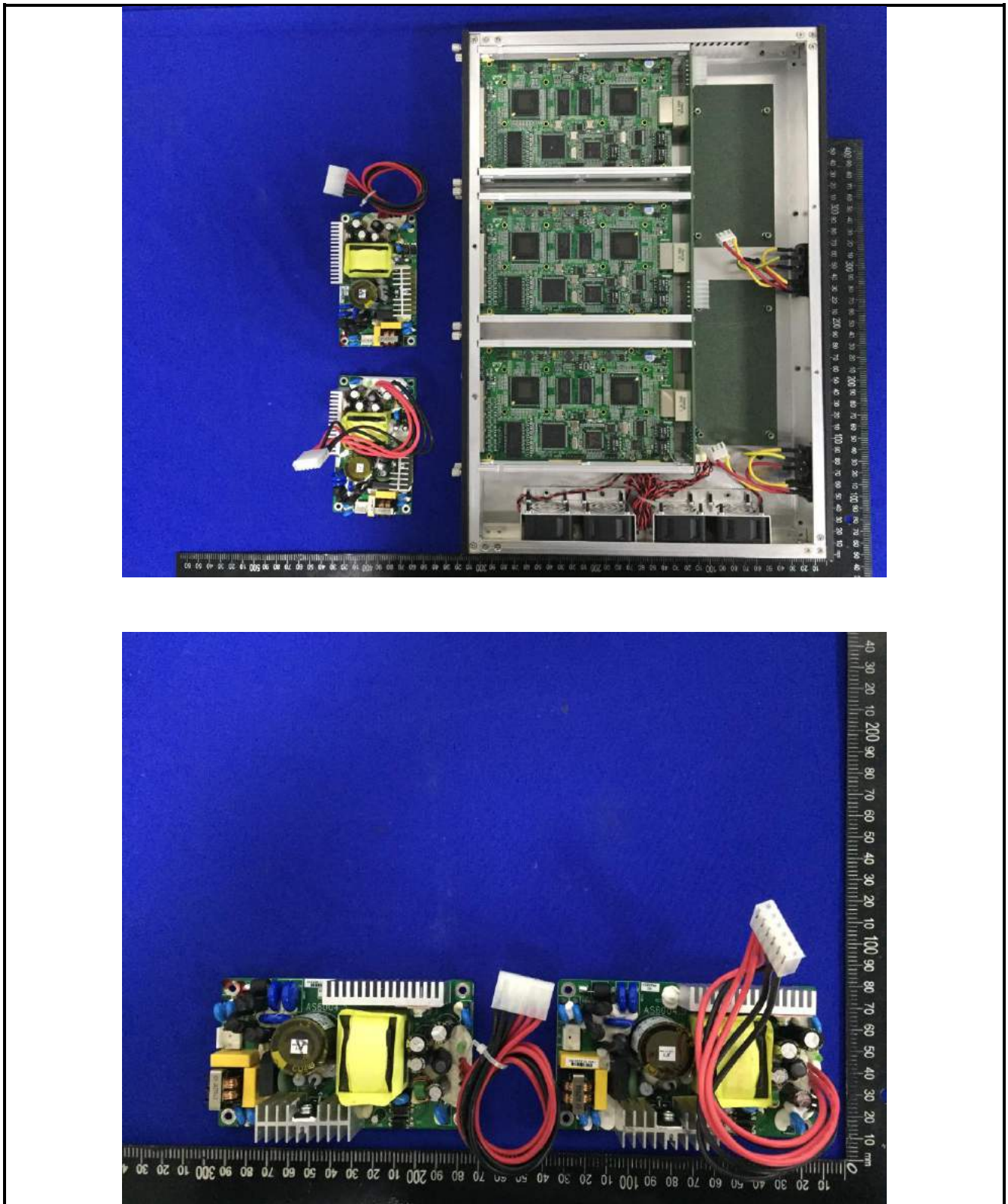
8 EUT Constructional Details

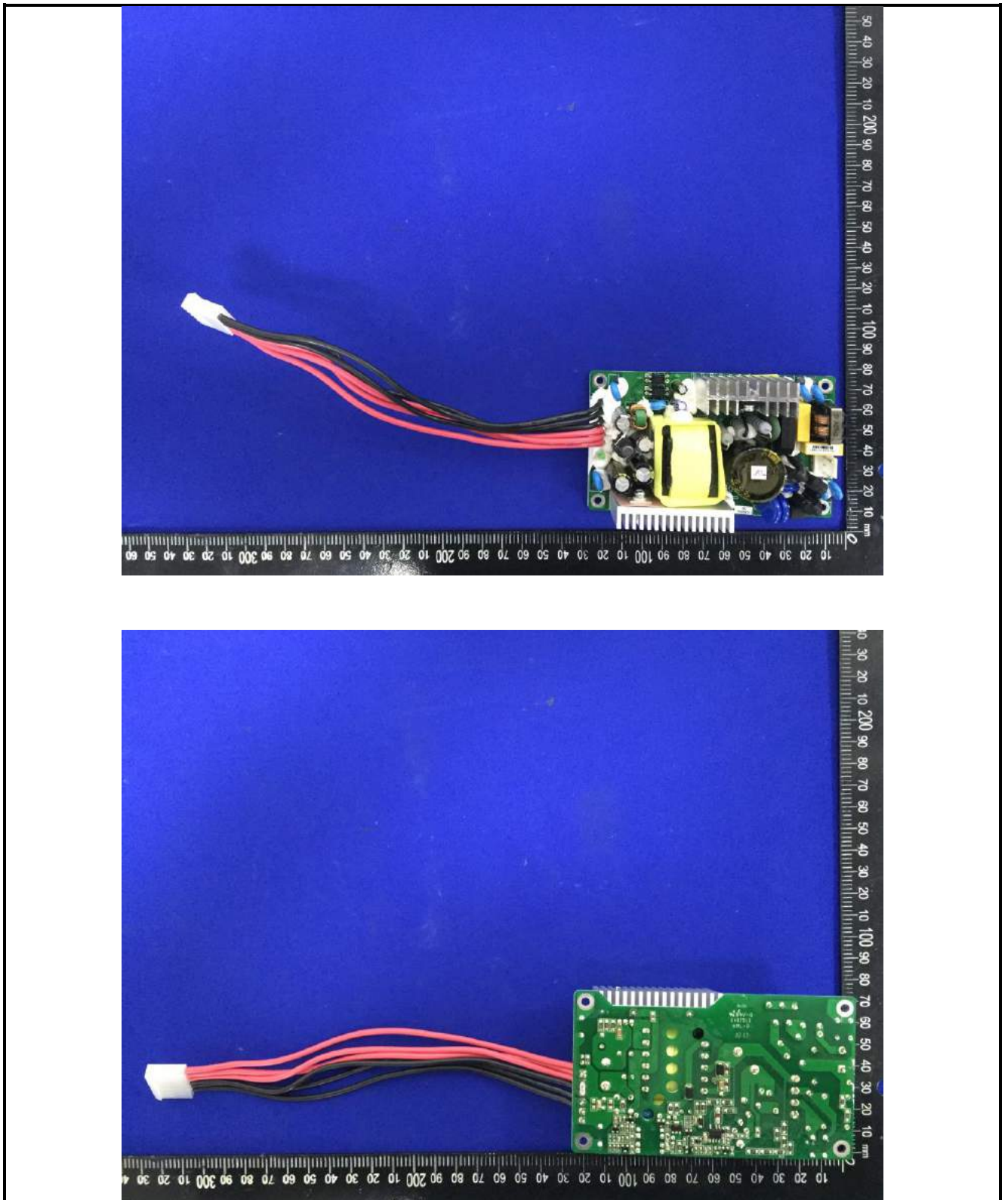


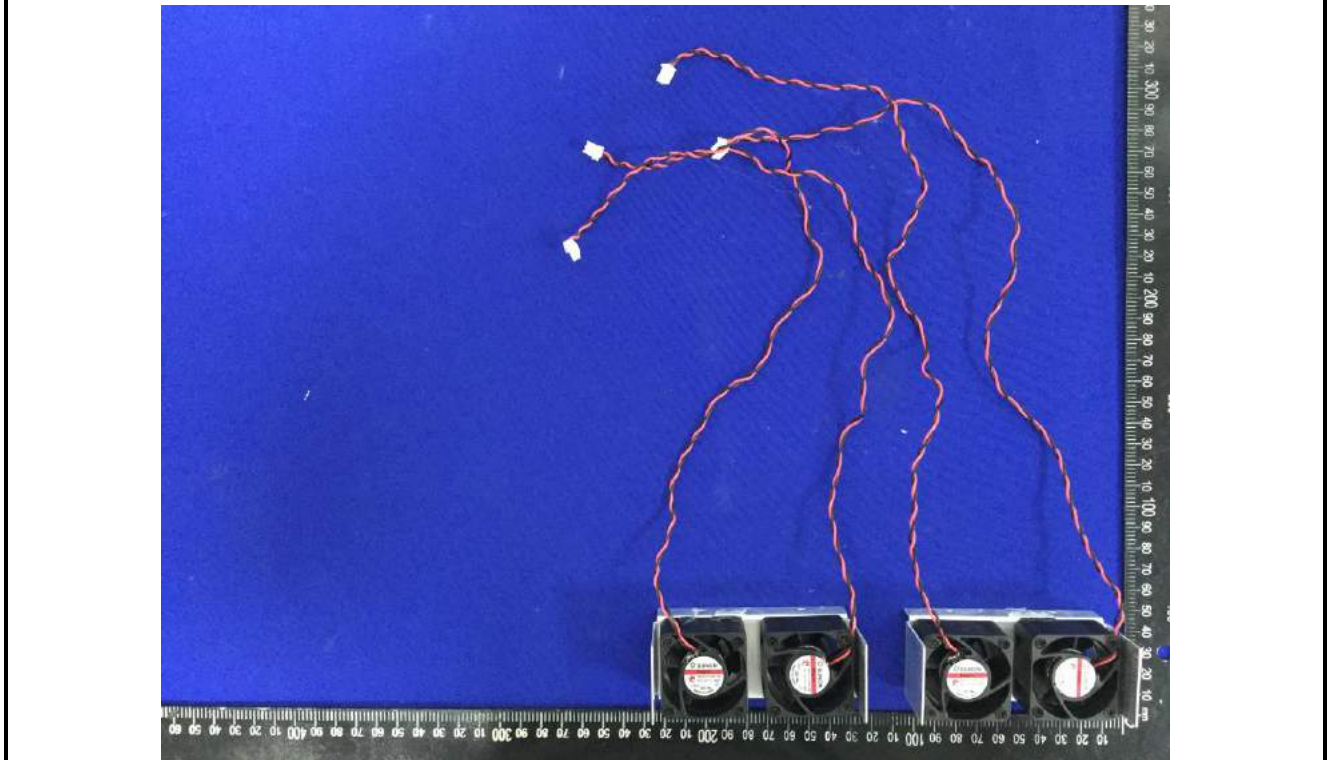
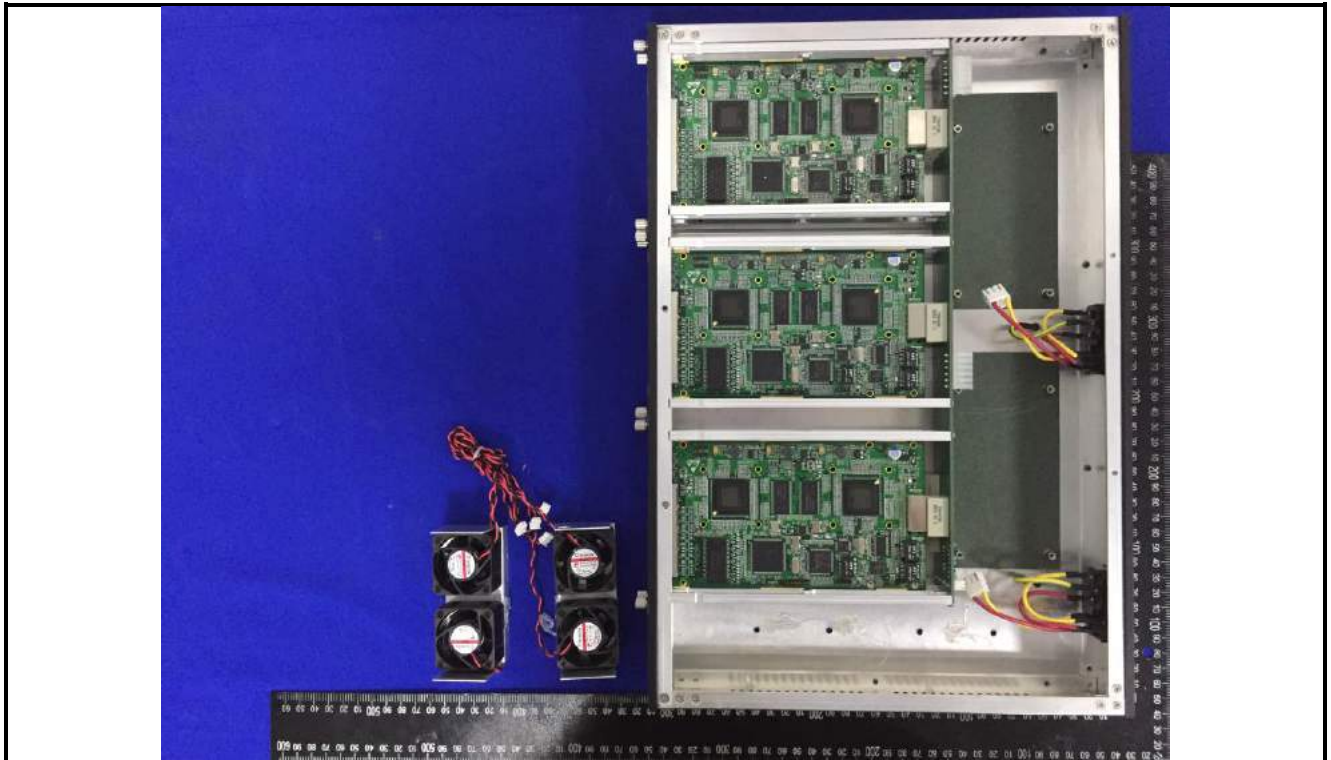


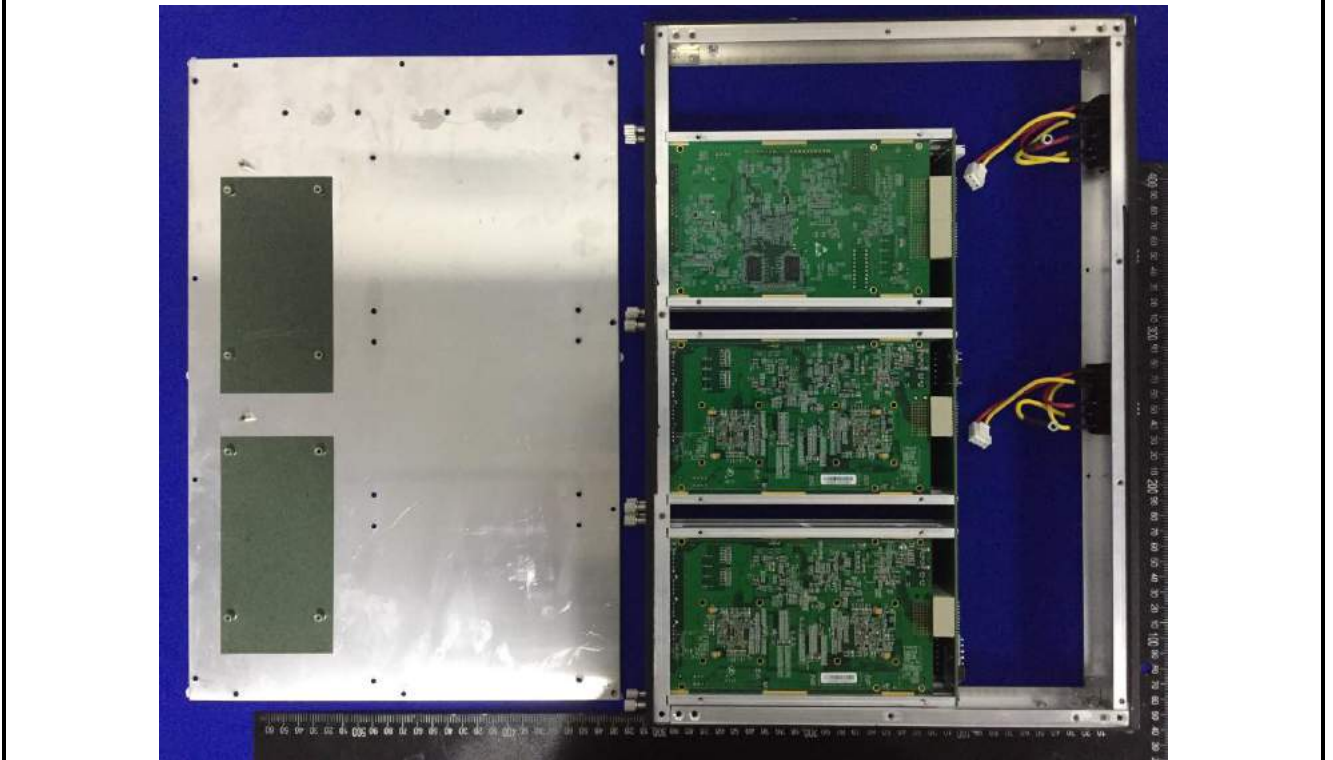
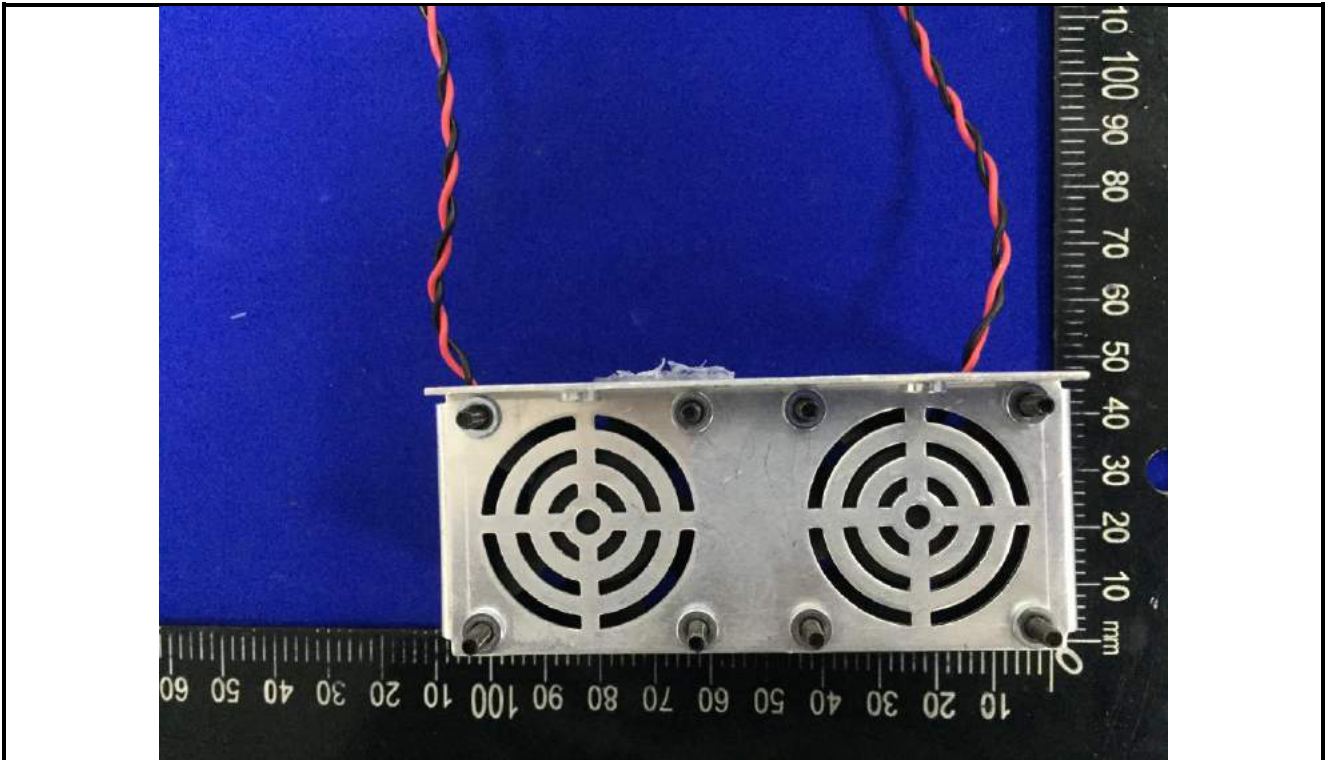




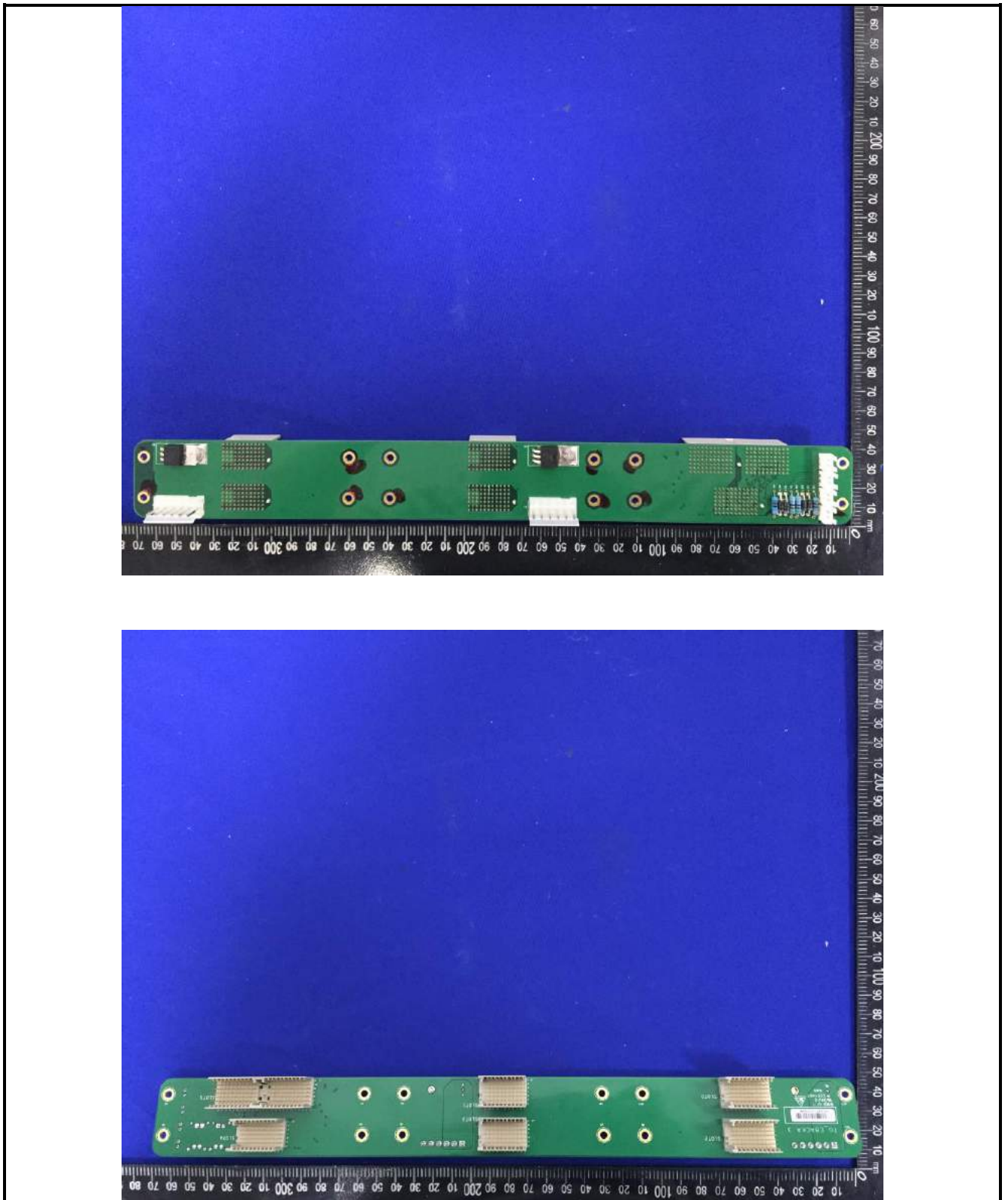


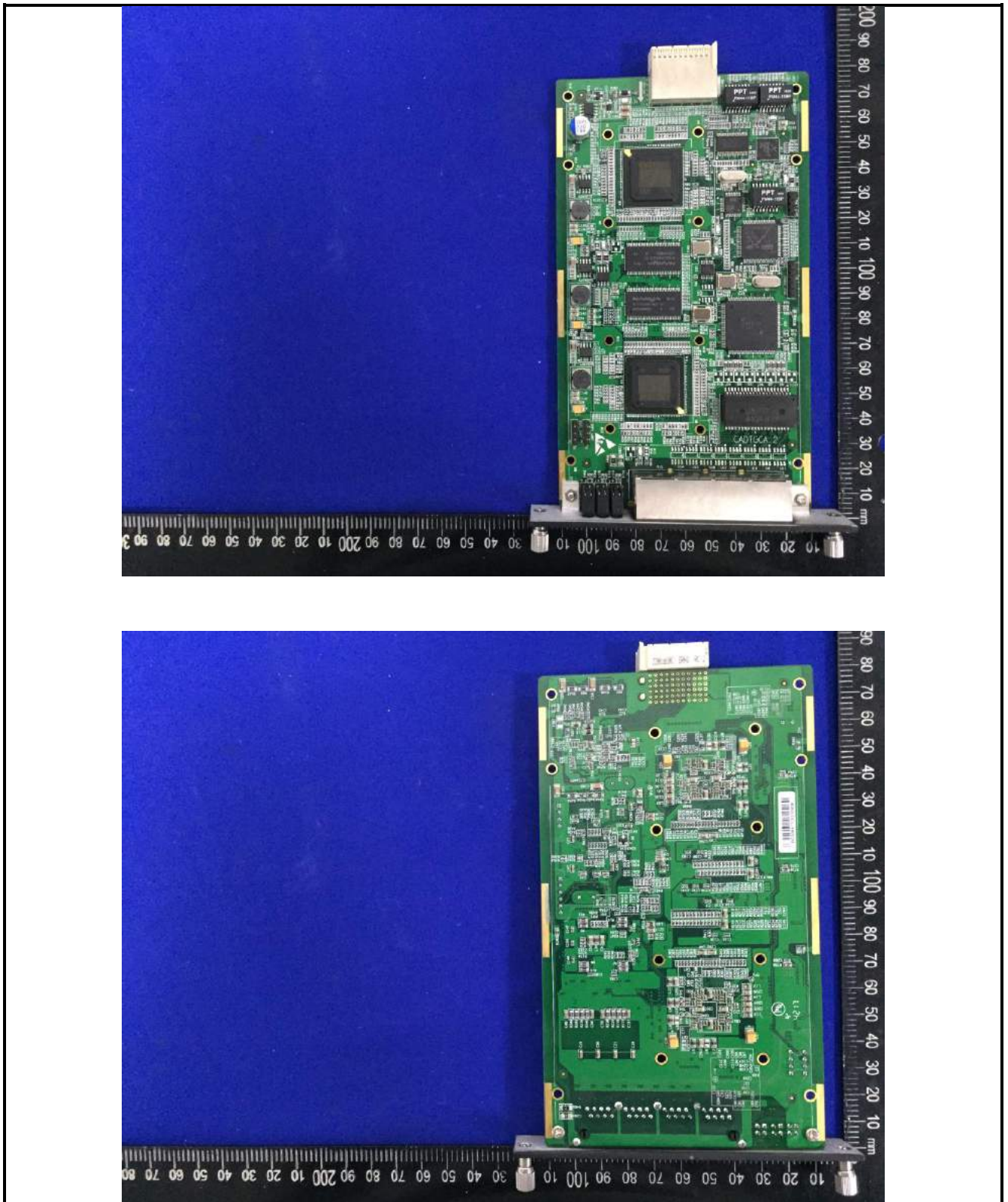




















-----End of report-----

TEST REPORT IEC/EN 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements	
Report Number	: CCISS180703301
Date of issue.....	: Jul. 31, 2018
Total number of pages.....	: 58
Applicant's name	: SHENZHEN DINSTAR Co., Ltd.
Address.....	: 9F, Guoxing Building, Changxing Road, Nanshan District, Shenzhen, Guangdong, P.R.China
Test specification:	
Standard	: IEC 62368-1:2014 (Second Edition) EN 62368-1:2014/A11:2017
Test procedure.....	: Type test
Non-standard test method	: N/A
Test Report Form No.	: IEC62368_1B
Test Report Form(s) Originator	: UL(US)
Master TRF.....	: 2014-03
General disclaimer:	
The test results presented in this report relate only to the object tested.	
This report shall not be reproduced, except in full, without the written approval by Shenzhen Zhongjian Nanfang Testing Co., Ltd.	
The authenticity of this Test Report and its contents can be verified by Shenzhen Zhongjian Nanfang Testing Co., Ltd., responsible for this Test Report.	
Test item description	: Trunk Gateway
Trade Mark.....	: N/A
Manufacturer.....	: SHENZHEN DINSTAR Co., Ltd.
Address.....	: 9F, Guoxing Building, Changxing Road, Nanshan District, Shenzhen, Guangdong, P.R.China
Model/Type reference.....	: MTG2000
Ratings.....	: Input: 100-240V~, 50-60Hz, 1.5A

Testing procedure and testing location:	
Testing Laboratory:	Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Testing location/ address	No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China.
Prepare by (name + signature)	Joy Yi 
Reviewed by (name + signature)	Daniel Li 
Approved by (name + signature)	Bruce Zhang 
Summary of testing:	
Tests performed (name of test and test clause): The submitted samples were tested and found to comply with the requirements of: - IEC 62368-1:2014 (Second Edition) - EN 62368-1:2014/A11:2017	Testing location: Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China.
Summary of compliance with National Differences:	
List of countries addressed: See National Differences and Group Differences for details.	
<input checked="" type="checkbox"/> The product fulfils the requirements of <u>EN 62368-1:2014/A11:2017</u> .	
Copy of marking plate:	
The artwork below may be only a draft. Until approval by National Certification Bodies and they shall not be affixed to products.	
	

Test item particulars:	
Classification of use by.....:	<input checked="" type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Instructed person <input checked="" type="checkbox"/> Skilled person <input checked="" type="checkbox"/> Children likely to be present
Supply Connection.....:	<input checked="" type="checkbox"/> AC Mains <input type="checkbox"/> DC Mains <input type="checkbox"/> External Circuit - not Mains connected - <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3
Supply % Tolerance	<input checked="" type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> +___%/ -___% <input type="checkbox"/> None
Supply Connection – Type	<input checked="" type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input checked="" type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input type="checkbox"/> mating connector <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input type="checkbox"/> other:_____
Considered current rating of protective device as part of building or equipment installation	16A (or 20A for US and Canada); Installation location: <input checked="" type="checkbox"/> building; <input type="checkbox"/> equipment
Equipment mobility	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in <input type="checkbox"/> rack-mounting <input type="checkbox"/> wall-mounted
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:_____
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location <input type="checkbox"/> N/A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
Manufacturer's specified maxium operating ambient :	40°C
IP protection class	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP___
Power Systems	<input checked="" type="checkbox"/> TN <input checked="" type="checkbox"/> TT <input checked="" type="checkbox"/> IT - <u> 230 </u> V _{L-L} (for Norway only)
Altitude during operation (m)	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> _____ m
Altitude of test laboratory (m)	<input type="checkbox"/> 2000 m or less <input checked="" type="checkbox"/> <u> 500 </u> m
Mass of equipment (kg)	<input checked="" type="checkbox"/> Approximate 3.621kg

Possible test case verdicts:

- test case does not apply to the test object : N/A
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing:

Date of receipt of test item..... : Jul. 02, 2018
 Date (s) of performance of tests..... : Jul. 02, 2018 to Jul. 06, 2018

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
 "(See appended table)" refers to a table appended to the report.

Throughout this report a comma / point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-1:

The application for obtaining a CB Test Certificate Yes
 includes more than one factory location and a Not applicable
 declaration from the Manufacturer stating that the
 sample(s) submitted for evaluation is (are)
 representative of the products from each factory has
 been provided

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies).....: SHENZHEN DINSTAR Co., Ltd.
 9F, Guoxing Building, Changxing Road, Nanshan District,
 Shenzhen, Guangdong, P.R.China

General product information:

Product Description:

- 1) The maximum operating temperature is 35°C.
- 2) Clearance was evaluated for operating altitude up to 2000m above sea level.
- 3) Product electric shock protection by earth and basic insulation.
- 4) Product power supply by an approved power supply unit. The power supply unit has been certifications, all of test data about primary circuit and power supply circuit see power supply unit certifications report.

Model Differences:

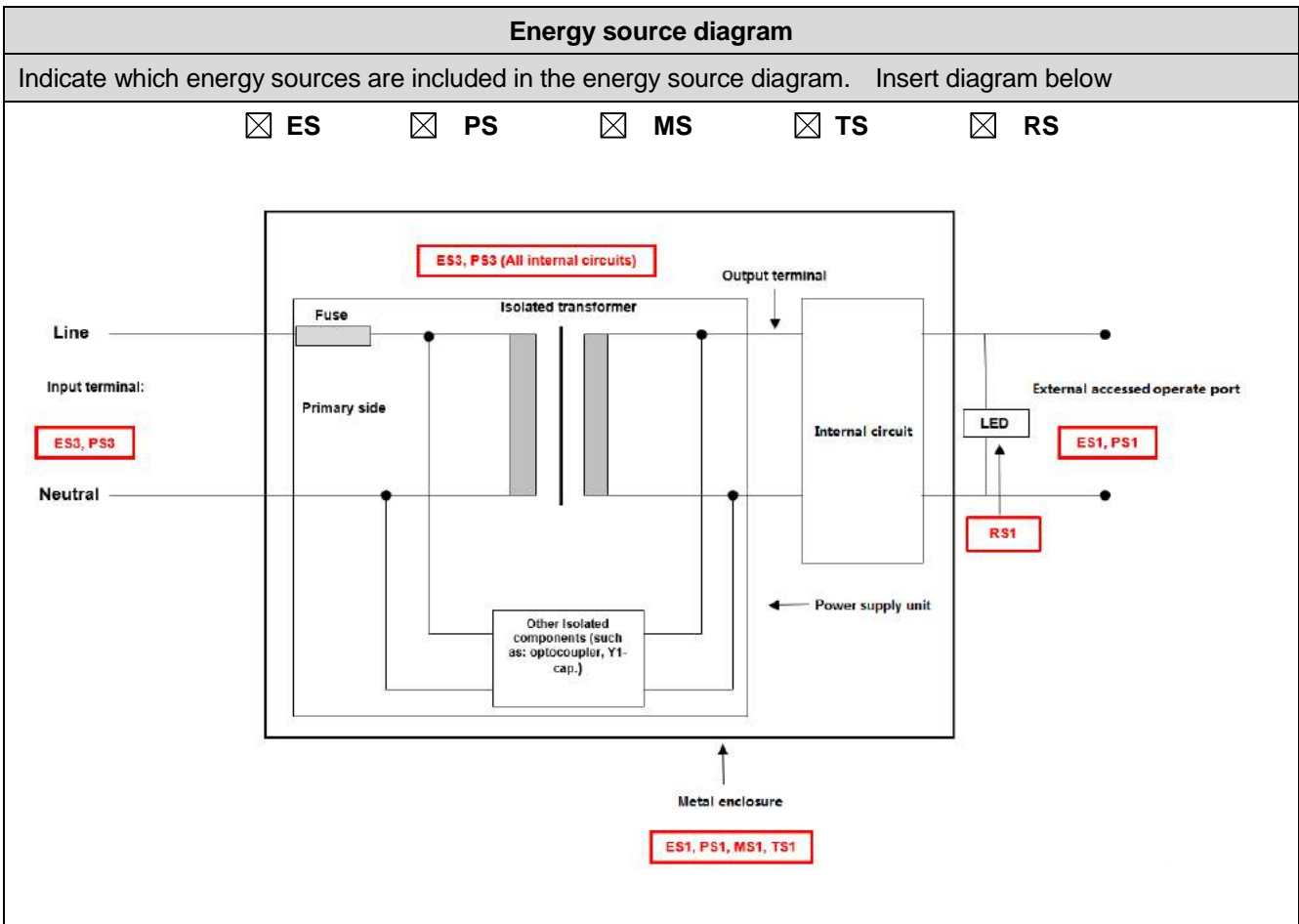
N/A

Additional application considerations (Considerations used to test a component or sub-assembly):

N/A

ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:	
(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.)	
(Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.	
Electrically-caused injury (Clause 5):	
(Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification)	
Example: +5 V dc input ES1	
Source of electrical energy	Corresponding classification (ES)
Input terminal	ES3
External accessed operate port	ES1
Internal circuits (both primary circuits and secondary circuits)	ES3
Metal enclosure (connect to earth)	ES1
Electrically-caused fire (Clause 6):	
(Note: List sub-assembly or circuit designation and corresponding energy source classification)	
Example: Battery pack (maximum 85 watts): PS2	
Source of power or PIS	Corresponding classification (PS)
Input terminal	PS3
External accessed operate port	PS1
Internal circuits (both primary circuits and secondary circuits)	PS3
Injury caused by hazardous substances (Clause 7)	
(Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.)	
Example: Liquid in filled component Glycol	
Source of hazardous substances	Corresponding chemical
N/A	N/A
Mechanically-caused injury (Clause 8)	
(Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.)	
Example: Wall mount unit MS2	
Source of kinetic/mechanical energy	Corresponding classification (MS)
Sharp edges and corners	MS1
Equipment mass (<7kg)	MS1

Thermal burn injury (Clause 9)	
(Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure TS1	
Source of thermal energy	Corresponding classification (TS)
External surfaces	TS1
Radiation (Clause 10)	
(Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product RS1	
Type of radiation	Corresponding classification (RS)
LED indicator	RS1



Overview of employed safeguards				
Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (ES3: Primary Filter circuit)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed	ES3: Input terminal (Primary Filter circuit)	(N): Bleeder resisters provided	(S): Did not exceed ES2 limits of Table 5 under anyone bleeder resister open-circuit condition	N/A
Ordinary; Instructed; Skilled	ES1: External accessed operate port	N/A	N/A	N/A
Ordinary; Instructed	ES3: Internal circuits (Primary circuits)	(N): Basic insulation	(S): Supplementary insulation	(N, S) Double insulation or reinforced insulation
Ordinary; Instructed	ES3: Internal circuits (Secondary circuits)	N/A (The output terminal did not exceed ES1 limits under normal condition, abnormal operating condition and single fault condition of components, device or insulation not serving as a safeguard)	N/A	N/A
Skilled	ES3: Internal circuits (Both primary circuits and secondary circuits)	N/A (Unintentional contact with parts during service operations is unlikely)	N/A	N/A

6.1_	Electrically-caused fire			
Material part (e.g. mouse enclosure)	Energy Source (PS2: 100 Watt circuit)	Safeguards		
		Basic	Supplementary	Reinforced
All combustible materials within equipment	PS3: All internal circuits	(N): Material does not exceed ignition temperature	(S): - Reduce the likelihood of ignition; - Fire enclosure	N/A
-	PS1: External accessed operate port	N/A	N/A	N/A
7.1	Injury caused by hazardous substances			
Body Part (e.g., skilled)	Energy Source (hazardous material)	Safeguards		
		Basic	Supplementary	Reinforced
-	-	-	-	-
8.1	Mechanically-caused injury			
Body Part (e.g. Ordinary)	Energy Source (MS3: High Pressure Lamp)	Safeguards		
		Basic	Supplementary	Reinforced (Enclosure)
Ordinary; Instructed; Skilled	MS1: Sharp edges and corners	N/A	N/A	N/A
Ordinary; Instructed; Skilled	MS1: Equipment mass (<7kg)	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part (e.g., Ordinary)	Energy Source (TS2)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary; Instructed; Skilled	TS1: External surfaces	N/A	N/A	N/A
10.1	Radiation			
Body Part (e.g., Ordinary)	Energy Source (Output from audio port)	Safeguards		
		Basic	Supplementary	Reinforced
Ordinary; Instructed; Skilled	RS1: LED indicator	N/A	N/A	N/A
Supplementary Information:				
(1) See attached energy source diagram for additional details.				
(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault.				

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4	GENERAL REQUIREMENTS		P
4.1.1	Acceptance of materials, components and subassemblies		P
4.1.2	Use of components		P
4.1.3	Equipment design and construction		P
4.1.15	Markings and instructions.....:	(See Annex F)	P
4.4.4	Safeguard robustness		P
4.4.4.2	Steady force tests.....:	(See Annex T.4, T.5)	P
4.4.4.3	Drop tests.....:	(See Annex T.7)	N/A
4.4.4.4	Impact tests.....:	(See Annex T.6)	P
4.4.4.5	Internal accessible safeguard enclosure and barrier tests.....:	No such safeguard enclosure	N/A
4.4.4.6	Glass Impact tests.....:	(See Annex T.9, Annex U)	N/A
4.4.4.7	Thermoplastic material tests.....:	(See Annex T.8)	N/A
4.4.4.8	Air comprising a safeguard.....:	Considered	P
4.4.4.9	Accessibility and safeguard effectiveness		P
4.5	Explosion		N/A
4.6	Fixing of conductors		P
4.6.1	Fix conductors not to defeat a safeguard		P
4.6.2	10 N force test applied to.....:	Considered	P
4.7	Equipment for direct insertion into mains socket - outlets	Connected mains by appliance coupler	N/A
4.7.2	Mains plug part complies with the relevant standard.....:		N/A
4.7.3	Torque (Nm).....:		N/A
4.8	Products containing coin/button cell batteries	Children cannot touch coin/ button cell batteries	P
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery.....:		—
4.8.4	Battery Compartment Mechanical Tests.....:	(See Table 4.8.4)	—
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object.....:	(See Annex P)	P

5	ELECTRICALLY-CAUSED INJURY		P
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Clause	Requirement + Test	Result - Remark	Verdict
5.2.1	Electrical energy source classifications..... :	(See appended table 5.2)	P
5.2.2	ES1, ES2 and ES3 limits		P
5.2.2.2	Steady-state voltage and current..... :	(See appended table 5.2)	P
5.2.2.3	Capacitance limits :	(See appended table 5.2)	P
5.2.2.4	Single pulse limits :	(See appended table 5.2)	N/A
5.2.2.5	Limits for repetitive pulses :	(See appended table 5.2)	N/A
5.2.2.6	Ringing signals :	(See Annex H)	N/A
5.2.2.7	Audio signals :	(See Clause E.1)	N/A
5.3	Protection against electrical energy sources		P
5.3.1	General Requirements for accessible parts to ordinary, instructed and skilled persons		P
5.3.2.1	Accessibility to electrical energy sources and safeguards		P
5.3.2.2	Contact requirements		P
	a) Test with test probe from Annex V :	Cannot contact with the conductive part for ES3 voltage	P
	b) Electric strength test potential (V) :		N/A
	c) Air gap (mm) :	Max. 340V _{peak} , Air gap >0.2mm	P
5.3.2.4	Terminals for connecting stripped wire		P
5.4	Insulation materials and requirements		P
5.4.1.2	Properties of insulating material		P
5.4.1.3	Humidity conditioning :	Comply with clause 5.4.8	P
5.4.1.4	Maximum operating temperature for insulating materials :	(See appended table 5.4.1.4)	P
5.4.1.5	Pollution degree :	Pollution degree 2	—
5.4.1.5.2	Test for pollution degree 1 environment and for an insulating compound		N/A
5.4.1.5.3	Thermal cycling		N/A
5.4.1.6	Insulation in transformers with varying dimensions		N/A
5.4.1.7	Insulation in circuits generating starting pulses		N/A
5.4.1.8	Determination of working voltage		P
5.4.1.9	Insulating surfaces		P
5.4.1.10	Thermoplastic parts on which conductive metallic parts are directly mounted		P
5.4.1.10.2	Vicat softening temperature..... :	(See appended table 5.4.1.10.2)	N/A
5.4.1.10.3	Ball pressure :	(See appended table 5.4.1.10.3)	N/A
5.4.2	Clearances		P

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.2	Determining clearance using peak working voltage	(See appended table 5.4.2.2)	P
5.4.2.3	Determining clearance using required withstand voltage	(See appended table 5.4.2.3)	P
	a) a.c. mains transient voltage	2500V _{peak}	—
	b) d.c. mains transient voltage		—
	c) external circuit transient voltage		—
	d) transient voltage determined by measurement:		—
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	(See appended table 5.4.2.4)	N/A
5.4.2.5	Multiplication factors for clearances and test voltages	The multiplication factor for altitude up to 2000m is 1.0	P
5.4.3	Creepage distances	(See appended table 5.4.3)	P
5.4.3.1	General		P
5.4.3.3	Material Group	Assume to group IIIb	—
5.4.4	Solid insulation		P
5.4.4.2	Minimum distance through insulation	(See appended table 5.4.4.2)	P
5.4.4.3	Insulation compound forming solid insulation		N/A
5.4.4.4	Solid insulation in semiconductor devices	Consider by power supply unit. Optocoupler complies with Clause G.12	P
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material		P
5.4.4.6.1	General requirements	Consider by power supply unit.	P
5.4.4.6.2	Separable thin sheet material	For insulation tape used in transformer	P
	Number of layers (pcs)	Min. 2 layers	P
5.4.4.6.3	Non-separable thin sheet material		N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material	(See appended Table 5.4.9)	N/A
5.4.4.6.5	Mandrel test	Consider by power supply unit.	N/A
5.4.4.7	Solid insulation in wound components	Consider by power supply unit.	P
5.4.4.9	Solid insulation at frequencies >30 kHz	Consider by power supply unit.	P
5.4.5	Antenna terminal insulation		N/A
5.4.5.1	General		N/A
5.4.5.2	Voltage surge test		N/A
	Insulation resistance (MΩ).....		—

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.6	Insulation of internal wire as part of supplementary safeguard.....:		N/A
5.4.7	Tests for semiconductor components and for cemented joints		N/A
5.4.8	Humidity conditioning		P
	Relative humidity (%).....:	93%	—
	Temperature (°C)	25°C	—
	Duration (h)	48h	—
5.4.9	Electric strength test	(See appended table 5.4.9)	P
5.4.9.1	Test procedure for a solid insulation type test		P
5.4.9.2	Test procedure for routine tests		N/A
5.4.10	Protection against transient voltages between external circuit	No external circuits	N/A
5.4.10.1	Parts and circuits separated from external circuits	(See appended table 5.4.9)	N/A
5.4.10.2	Test methods		N/A
5.4.10.2.1	General		N/A
5.4.10.2.2	Impulse test	(See appended table 5.4.9)	N/A
5.4.10.2.3	Steady-state test.....:	(See appended table 5.4.9)	N/A
5.4.11	Insulation between external circuits and earthed circuitry	(See appended table 5.4.9)	N/A
5.4.11.1	Exceptions to separation between external circuits and earth		N/A
5.4.11.2	Requirements		N/A
	Rated operating voltage U_{op} (V).....:		—
	Nominal voltage U_{peak} (V).....:		—
	Max increase due to variation U_{sp}		—
	Max increase due to ageing ΔU_{sa}		—
	$U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$		—
5.5	Components as safeguards		P
5.5.1	General		P
5.5.2	Capacitors and RC units		P
5.5.2.1	General requirement		P
5.5.2.2	Safeguards against capacitor discharge after disconnection of a connector.....:	(See appended table 5.5.2.2)	P
5.5.3	Transformers	Consider by power supply unit.	P
5.5.4	Optocouplers	Consider by power supply unit.	P
5.5.5	Relays	(See Annex G.2)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.5.6	Resistors	(See Annex G.10)	N/A
5.5.7	SPD's	(See Annex G.8) Approved VDR is used between primary and earth.	P
5.5.7.1	Use of an SPD connected to reliable earthing	Consider by power supply unit.	P
5.5.7.2	Use of an SPD between mains and protective earth	Consider by power supply unit.	P
5.5.8	Insulation between the mains and external circuit consisting of a coaxial cable.....:	(See Annex G.10.3)	N/A
5.6	Protective conductor		P
5.6.2	Requirement for protective conductors		P
5.6.2.1	General requirements		P
5.6.2.2	Colour of insulation	Green and Yellow	P
5.6.3	Requirement for protective earthing conductors		N/A
	Protective earthing conductor size (mm ²)		—
5.6.4	Requirement for protective bonding conductors		P
5.6.4.1	Protective bonding conductors		P
	Protective bonding conductor size (mm ²).	Comply with clause 5.6.6.2	—
5.6.4.2	Protective current rating (A).....:	16A	—
5.6.4.3	Current limiting and overcurrent protective devices		P
5.6.5	Terminals for protective conductors		P
5.6.5.1	Requirement		P
	Conductor size (mm ²), nominal thread diameter (mm).	Comply with clause 5.6.6.2	P
5.6.5.2	Corrosion	(see Annex N)	N/A
5.6.6	Resistance of the protective system		P
5.6.6.1	Requirements		P
5.6.6.2	Test Resistance (Ω).....:	16mΩ, test current: 32A for 2 minutes.	P
5.6.7	Reliable earthing		P
5.7	Prospective touch voltage, touch current and protective conductor current		P
5.7.2	Measuring devices and networks	Figure 4 and 5 of IEC 60990:1999 used	P
5.7.2.1	Measurement of touch current	Max. 0.278mA peak	P
5.7.2.2	Measurement of prospective touch voltage		P
5.7.3	Equipment set-up, supply connections and earth connections		P
	System of interconnected equipment (separate connections/single connection)		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Multiple connections to mains (one connection at a time/simultaneous connections)	One connection at a time	—
5.7.4	Earthed conductive accessible parts	(See appended Table 5.7.4)	P
5.7.5	Protective conductor current		N/A
	Supply Voltage (V).....		—
	Measured current (mA).....		—
	Instructional Safeguard.....	(See F.4 and F.5)	N/A
5.7.6	Prospective touch voltage and touch current due to external circuits		N/A
5.7.6.1	Touch current from coaxial cables		N/A
5.7.6.2	Prospective touch voltage and touch current from external circuits		N/A
5.7.7	Summation of touch currents from external circuits		N/A
	a) Equipment with earthed external circuits Measured current (mA).....		N/A
	b) Equipment whose external circuits are not referenced to earth. Measured current (mA)		N/A

6	ELECTRICALLY- CAUSED FIRE		P
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		P
6.2.2	Power source circuit classifications		P
6.2.2.1	General		P
6.2.2.2	Power measurement for worst-case load fault ... :	(See appended table 6.2.2)	P
6.2.2.3	Power measurement for worst-case power source fault	(See appended table 6.2.2)	P
6.2.2.4	PS1	(See appended table 6.2.2)	P
6.2.2.5	PS2	(See appended table 6.2.2)	P
6.2.2.6	PS3	(See appended table 6.2.2)	P
6.2.3	Classification of potential ignition sources		P
6.2.3.1	Arcing PIS	All internal circuits are declared as arcing PIS	P
6.2.3.2	Resistive PIS	All internal circuits and output terminal are declared as resistive PIS	P
6.3	Safeguards against fire under normal operating and abnormal operating conditions		P

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Clause	Requirement + Test	Result - Remark	Verdict
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	P
6.3.1 (b)	Combustible materials outside fire enclosure	No such parts	N/A
6.4	Safeguards against fire under single fault conditions		P
6.4.1	Safeguard Method		P
6.4.2	Reduction of the likelihood of ignition under single fault conditions in PS1 circuits		N/A
6.4.3	Reduction of the likelihood of ignition under single fault conditions in PS2 and PS3 circuits		P
6.4.3.1	General		P
6.4.3.2	Supplementary Safeguards		P
	Special conditions if conductors on printed boards are opened or peeled		N/A
6.4.3.3	Single Fault Conditions	(See appended table 6.4.3)	P
	Special conditions for temperature limited by fuse		P
6.4.4	Control of fire spread in PS1 circuits		N/A
6.4.5	Control of fire spread in PS2 circuits	Output terminal complies with Clause 6.6	N/A
6.4.5.2	Supplementary safeguards	(See appended tables 4.1.2 and Annex G)	P
6.4.6	Control of fire spread in PS3 circuit		P
6.4.7	Separation of combustible materials from a PIS		N/A
6.4.7.1	General	(See tables 6.2.3.1 and 6.2.3.2)	N/A
6.4.7.2	Separation by distance		N/A
6.4.7.3	Separation by a fire barrier		N/A
6.4.8	Fire enclosures and fire barriers		P
6.4.8.1	Fire enclosure and fire barrier material properties		P
6.4.8.2.1	Requirements for a fire barrier		N/A
6.4.8.2.2	Requirements for a fire enclosure		P
6.4.8.3	Constructional requirements for a fire enclosure and a fire barrier		P
6.4.8.3.1	Fire enclosure and fire barrier openings		P
6.4.8.3.2	Fire barrier dimensions		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.4.8.3.3	Top Openings in Fire Enclosure: dimensions (mm)	The openings max. length is 19.36mm, max. width is 2.38mm, the max. openings area is 19.36mm x 194.32mm.	P
	Needle Flame test		P
6.4.8.3.4	Bottom Openings in Fire Enclosure, condition met a), b) and/or c) dimensions (mm)	No openings	N/A
	Flammability tests for the bottom of a fire enclosure		N/A
6.4.8.3.5	Integrity of the fire enclosure, condition met: a), b) or c)		N/A
6.4.8.4	Separation of PIS from fire enclosure and fire barrier distance (mm) or flammability rating	Plastic enclosure is made of V-0 class material	P
6.5	Internal and external wiring		P
6.5.1	Requirements	Approved external wiring used	P
6.5.2	Cross-sectional area (mm ²)	Power input lead wire: min. 18AWG Power output wire: min. 18AWG	—
6.5.3	Requirements for interconnection to building wiring	(See Annex Q)	N/A
6.6	Safeguards against fire due to connection to additional equipment	Output terminal complies with Clause Q.1 according to manufacturer's choice	P
	External port limited to PS2 or complies with Clause Q.1		P

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		N/A
7.2	Reduction of exposure to hazardous substances		N/A
7.3	Ozone exposure		N/A
7.4	Use of personal safeguards (PPE)		N/A
	Personal safeguards and instructions		—
7.5	Use of instructional safeguards and instructions		N/A
	Instructional safeguard (ISO 7010).....		—
7.6	Batteries.....	(See Annex M)	N/A

8	MECHANICALLY-CAUSED INJURY		P
8.1	General		P

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Clause	Requirement + Test	Result - Remark	Verdict
8.2	Mechanical energy source classifications	Sharp edges and corners and equipment mass are both classified as MS1	P
8.3	Safeguards against mechanical energy sources	No safeguard is required	P
8.4	Safeguards against parts with sharp edges and corners	MS1 no safeguard required	N/A
8.4.1	Safeguards		N/A
8.5	Safeguards against moving parts	No moving parts	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment		N/A
8.5.2	Instructional Safeguard		—
8.5.4	Special categories of equipment comprising moving parts		N/A
8.5.4.1	Large data storage equipment		N/A
8.5.4.2	Equipment having electromechanical device for destruction of media		N/A
8.5.4.2.1	Safeguards and Safety Interlocks.....		N/A
8.5.4.2.2	Instructional safeguards against moving parts		N/A
	Instructional Safeguard		—
8.5.4.2.3	Disconnection from the supply		N/A
8.5.4.2.4	Probe type and force (N).....		N/A
8.5.5	High Pressure Lamps		N/A
8.5.5.1	Energy Source Classification		N/A
8.5.5.2	High Pressure Lamp Explosion Test		N/A
8.6	Stability	Equipment mass < 7.0kg and is classified as MS1	N/A
8.6.1	Product classification		N/A
	Instructional Safeguard		—
8.6.2	Static stability		N/A
8.6.2.2	Static stability test		N/A
	Applied Force		—
8.6.2.3	Downward Force Test		N/A
8.6.3	Relocation stability test		N/A
	Unit configuration during 10° tilt.....		—
8.6.4	Glass slide test		N/A
8.6.5	Horizontal force test (Applied Force)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Position of feet or movable parts		—
8.7	Equipment mounted to wall or ceiling	No wall mounting means	N/A
8.7.1	Mounting Means (Length of screws (mm) and mounting surface)		N/A
8.7.2	Direction and applied force		N/A
8.8	Handles strength	No handle	N/A
8.8.1	Classification		N/A
8.8.2	Applied Force		N/A
8.9	Wheels or casters attachment requirements	No wheels or casters attachment	N/A
8.9.1	Classification		N/A
8.9.2	Applied force.....		—
8.10	Carts, stands and similar carriers	No carts, stands or similar carriers	N/A
8.10.1	General		N/A
8.10.2	Marking and instructions		N/A
	Instructional Safeguard		—
8.10.3	Cart, stand or carrier loading test and compliance		N/A
	Applied force.....		—
8.10.4	Cart, stand or carrier impact test		N/A
8.10.5	Mechanical stability		N/A
	Applied horizontal force (N)		—
8.10.6	Thermoplastic temperature stability (°C)		N/A
8.11	Mounting means for rack mounted equipment		N/A
8.11.1	General		N/A
8.11.2	Product Classification		N/A
8.11.3	Mechanical strength test, variable <i>N</i>		N/A
8.11.4	Mechanical strength test 250N, including end stops		N/A
8.12	Telescoping or rod antennas	(See Annex T)	N/A
	Button/Ball diameter (mm)		—

9	THERMAL BURN INJURY		P
9.2	Thermal energy source classifications	External surfaces classified as TS1	P
9.3	Safeguard against thermal energy sources	No safeguard required	N/A
9.4	Requirements for safeguards		N/A
9.4.1	Equipment safeguard		N/A
9.4.2	Instructional safeguard		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10	RADIATION		P
10.2	Radiation energy source classification		P
10.2.1	General classification		P
10.3	Protection against laser radiation	No laser radiation	N/A
	Laser radiation that exists equipment:		—
	Normal, abnormal, single-fault..... :		N/A
	Instructional safeguard :		—
	Tool..... :		—
10.4	Protection against visible, infrared, and UV radiation	RS1 LED indicator, no safeguard required	N/A
10.4.1	General		N/A
10.4.1.a)	RS3 for Ordinary and instructed persons :		N/A
10.4.1.b)	RS3 accessible to a skilled person..... :		N/A
	Personal safeguard (PPE) instructional safeguard..... :		—
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1 . :		N/A
10.4.1.d)	Normal, abnormal, single-fault conditions :		N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque..... :		N/A
10.4.1.f)	UV attenuation :		N/A
10.4.1.g)	Materials resistant to degradation UV :		N/A
10.4.1.h)	Enclosure containment of optical radiation..... :		N/A
10.4.1.i)	Exempt Group under normal operating conditions :		N/A
10.4.2	Instructional safeguard :		N/A
10.5	Protection against x-radiation	No X-radiation	N/A
10.5.1	X- radiation energy source that exists equipment :		N/A
	Normal, abnormal, single fault conditions		N/A
	Equipment safeguards..... :		N/A
	Instructional safeguard for skilled person :		N/A
10.5.3	Most unfavourable supply voltage to give maximum radiation :		—
	Abnormal and single-fault condition :		N/A
	Maximum radiation (pA/kg)..... :		N/A
10.6	Protection against acoustic energy sources	No acoustic energy source	N/A
10.6.1	General		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
10.6.2	Classification		N/A
	Acoustic output, dB(A)		N/A
	Output voltage, unweighted r.m.s.....		N/A
10.6.4	Protection of persons		N/A
	Instructional safeguards		N/A
	Equipment safeguard prevent ordinary person to RS2.....		—
	Means to actively inform user of increase sound pressure.....		—
	Equipment safeguard prevent ordinary person to RS2.....		—
10.6.5	Requirements for listening devices (headphones, earphones, etc.)		N/A
10.6.5.1	Corded passive listening devices with analog input		N/A
	Input voltage with 94 dB(A) L_{Aeq} acoustic pressure output.....		—
10.6.5.2	Corded listening devices with digital input		N/A
	Maximum dB(A)		—
10.6.5.3	Cordless listening device		N/A
	Maximum dB(A)		—

B	NORMAL OPERATING CONDITION TESTS, ABNORMAL OPERATING CONDITION TESTS AND SINGLE FAULT CONDITION TESTS		P
B.2	Normal Operating Conditions		P
B.2.1	General requirements	(See Test Item Particulars and appended test tables)	P
	Audio Amplifiers and equipment with audio amplifiers.....		N/A
B.2.3	Supply voltage and tolerances		P
B.2.5	Input test	(See appended table B.2.5)	P
B.3	Simulated abnormal operating conditions		P
B.3.1	General requirements	(See appended table B.3)	P
B.3.2	Covering of ventilation openings		P
B.3.3	D.C. mains polarity test		N/A
B.3.4	Setting of voltage selector		N/A
B.3.5	Maximum load at output terminals.....	(See appended table B.3)	P

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Clause	Requirement + Test	Result - Remark	Verdict
B.3.6	Reverse battery polarity		N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.		N/A
B.3.8	Safeguards functional during and after abnormal operating conditions	During an abnormal operating condition that does not lead to a single fault condition, all safeguards are remained effective. After restoration of normal operating conditions, all safeguards are compliance with applicable requirements	P
B.4	Simulated single fault conditions		P
B.4.2	Temperature controlling device open or short-circuited	No such device	N/A
B.4.3	Motor tests	Internal fan	P
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	Motor blocked	P
B.4.4	Short circuit of functional insulation		P
B.4.4.1	Short circuit of clearances for functional insulation		P
B.4.4.2	Short circuit of creepage distances for functional insulation		P
B.4.4.3	Short circuit of functional insulation on coated printed boards	No coated printed board	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors		P
B.4.6	Short circuit or disconnect of passive components		P
B.4.7	Continuous operation of components	No such components	N/A
B.4.8	Class 1 and Class 2 energy sources within limits during and after single fault conditions	During and after a single fault condition, a class 1 or class 2 energy sources did not become a class 3 energy source. For a class 3 energy source, during and after a single fault condition, at least one safeguard continued to comply with the relevant safeguard requirements.	P
B.4.9	Battery charging under single fault conditions	(See Annex M)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
C	UV RADIATION		N/A
C.1	Protection of materials in equipment from UV radiation	No UV radiation	N/A
C.1.2	Requirements		N/A
C.1.3	Test method		N/A
C.2	UV light conditioning test		N/A
C.2.1	Test apparatus		N/A
C.2.2	Mounting of test samples		N/A
C.2.3	Carbon-arc light-exposure apparatus		N/A
C.2.4	Xenon-arc light exposure apparatus		N/A

D	TEST GENERATORS		N/A
D.1	Impulse test generators		N/A
D.2	Antenna interface test generator		N/A
D.3	Electronic pulse generator		N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS		N/A
E.1	Audio amplifier normal operating conditions	Equipment does not contain any audio amplifier	N/A
	Audio signal voltage (V)		—
	Rated load impedance (Ω)		—
E.2	Audio amplifier abnormal operating conditions		N/A

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS		P
F.1	General requirements		P
	Instructions – Language	English	—
F.2	Letter symbols and graphical symbols		P
F.2.1	Letter symbols according to IEC60027-1		P
F.2.2	Graphic symbols IEC, ISO or manufacturer specific		P
F.3	Equipment markings		P
F.3.1	Equipment marking locations	Equipment marking is located on its exterior surface and is readily visible	P
F.3.2	Equipment identification markings		P
F.3.2.1	Manufacturer identification	See the copy of marking plate	—
F.3.2.2	Model identification	See the copy of marking plate	—

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Clause	Requirement + Test	Result - Remark	Verdict
F.3.3	Equipment rating markings		P
F.3.3.1	Equipment with direct connection to mains		P
F.3.3.2	Equipment without direct connection to mains		N/A
F.3.3.3	Nature of supply voltage	Symbol “  ” provided	—
F.3.3.4	Rated voltage	100-240V	—
F.3.3.4	Rated frequency	50-60Hz	—
F.3.3.6	Rated current or rated power	1.5A	—
F.3.3.7	Equipment with multiple supply connections	No multiple supply connections	N/A
F.3.4	Voltage setting device	No voltage setting device	N/A
F.3.5	Terminals and operating devices	No terminals and operating devices	N/A
F.3.5.1	Mains appliance outlet and socket-outlet markings	No mains appliance outlet and socket-outlet	N/A
F.3.5.2	Switch position identification marking		P
F.3.5.3	Replacement fuse identification and rating markings	Fuse locations on power supply unit and markings: In "Live" marked F1: "T5AL 250V" and F2&F3 "T10AL 250V"silk screened to PCB adjacent to each fuse	P
F.3.5.4	Replacement battery identification marking.....		N/A
F.3.5.5	Terminal marking location		P
F.3.6	Equipment markings related to equipment classification		P
F.3.6.1	Class I Equipment		P
F.3.6.1.1	Protective earthing conductor terminal	Symbol  used.	P
F.3.6.1.2	Neutral conductor terminal		P
F.3.6.1.3	Protective bonding conductor terminals		P
F.3.6.2	Class II equipment (IEC60417-5172)		N/A
F.3.6.2.1	Class II equipment with or without functional earth		N/A
F.3.6.2.2	Class II equipment with functional earth terminal marking		N/A
F.3.7	Equipment IP rating marking	IPX0	—
F.3.8	External power supply output marking		N/A
F.3.9	Durability, legibility and permanence of marking		P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
F.3.10	Test for permanence of markings	After test the markings clearly legible, not possible to be removed, no curling.	P
F.4	Instructions		P
	a) Equipment for use in locations where children not likely to be present - marking		N/A
	b) Instructions given for installation or initial use		P
	c) Equipment intended to be fastened in place		N/A
	d) Equipment intended for use only in restricted access area		N/A
	e) Audio equipment terminals classified as ES3 and other equipment with terminals marked in accordance F.3.6.1		N/A
	f) Protective earthing employed as safeguard		P
	g) Protective earthing conductor current exceeding ES 2 limits		N/A
	h) Symbols used on equipment		P
	i) Permanently connected equipment not provided with all-pole mains switch		N/A
	j) Replaceable components or modules providing safeguard function		P
F.5	Instructional safeguards		N/A
	Where "instructional safeguard" is referenced in the test report it specifies the required elements, location of marking and/or instruction		N/A

G	COMPONENTS		P
G.1	Switches		P
G.1.1	General requirements	Consider	P
G.1.2	Ratings, endurance, spacing, maximum load	250V, 16A	P
G.2	Relays		N/A
G.2.1	General requirements	No relays	N/A
G.2.2	Overload test		N/A
G.2.3	Relay controlling connectors supply power		N/A
G.2.4	Mains relay, modified as stated in G.2		N/A
G.3	Protection Devices		P
G.3.1	Thermal cut-offs	No thermal cut-offs	N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)		N/A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)		N/A
G.3.1.2	Thermal cut-off connections maintained and secure		N/A
G.3.2	Thermal links		N/A
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal links	N/A
G.3.2.1b)	Thermal links tested as part of the equipment		N/A
	Aging hours (H)..... :		—
	Single Fault Condition..... :		—
	Test Voltage (V) and Insulation Resistance (Ω) . :		—
G.3.3	PTC Thermistors	No PTC thermistors	N/A
G.3.4	Overcurrent protection devices	Approved fuse provided	P
G.3.5	Safeguards components not mentioned in G.3.1 to G.3.4		N/A
G.3.5.1	Non-resettable devices suitably rated and marking provided		N/A
G.3.5.2	Single faults conditions :	(See appended Table B.4)	N/A
G.4	Connectors		P
G.4.1	Spacing	Output terminal: ES1	P
G.4.2	Mains connector configuration :	Comply with IEC 60320-1	P
G.4.3	Plug is shaped that insertion into mains socket-outlets or appliance coupler is unlikely		P
G.5	Wound Components		P
G.5.1	Wire insulation in wound components :	Considered in internal power supply unit test	—
G.5.1.2 a)	Two wires in contact inside wound component, angle between 45° and 90°	Considered in internal power supply unit test	P
G.5.1.2 b)	Construction subject to routine testing		N/A
G.5.2	Endurance test on wound components		N/A
G.5.2.1	General test requirements		N/A
G.5.2.2	Heat run test		N/A
	Time (s)..... :		—
	Temperature (°C)..... :		—
G.5.2.3	Wound Components supplied by mains		N/A
G.5.3	Transformers		P

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Clause	Requirement + Test	Result - Remark	Verdict
G.5.3.1	Requirements applied (IEC61204-7, IEC61558-1/-2, and/or IEC62368-1)..... :	Considered in internal power supply unit test	N/A
	Position :		—
	Method of protection :		—
G.5.3.2	Insulation		N/A
	Protection from displacement of windings :		—
G.5.3.3	Overload test..... :		N/A
G.5.3.3.1	Test conditions		N/A
G.5.3.3.2	Winding Temperatures testing in the unit		N/A
G.5.3.3.3	Winding Temperatures - Alternative test method		N/A
G.5.4	Motors		N/A
G.5.4.1	General requirements	Fan only	N/A
	Position :		—
G.5.4.2	Test conditions		N/A
G.5.4.3	Running overload test		N/A
G.5.4.4	Locked-rotor overload test		N/A
	Test duration (days) :		—
G.5.4.5	Running overload test for d.c. motors in secondary circuits		N/A
G.5.4.5.2	Tested in the unit		N/A
	Electric strength test (V) :		—
G.5.4.5.3	Tested on the Bench - Alternative test method; test time (h) :		N/A
	Electric strength test (V) :		—
G.5.4.6	Locked-rotor overload test for d.c. motors in secondary circuits		N/A
G.5.4.6.2	Tested in the unit		N/A
	Maximum Temperature :		N/A
	Electric strength test (V) :		N/A
G.5.4.6.3	Tested on the bench - Alternative test method; test time (h)..... :		N/A
	Electric strength test (V) :		N/A
G.5.4.7	Motors with capacitors		N/A
G.5.4.8	Three-phase motors		N/A
G.5.4.9	Series motors		N/A
	Operating voltage :		—
G.6	Wire Insulation		P

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Clause	Requirement + Test	Result - Remark	Verdict
G.6.1	General	Approved TIW used in transformer T1 (see Annex J)	P
G.6.2	Solvent-based enamel wiring insulation		N/A
G.7	Mains supply cords		N/A
G.7.1	General requirements	Not provided	N/A
	Type		—
	Rated current (A)		—
	Cross-sectional area (mm ²), (AWG)		—
G.7.2	Compliance and test method		N/A
G.7.3	Cord anchorages and strain relief for non-detachable power supply cords		N/A
G.7.3.2	Cord strain relief		N/A
G.7.3.2.1	Requirements		N/A
	Strain relief test force (N)		—
G.7.3.2.2	Strain relief mechanism failure		N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm) ... :		—
G.7.3.2.4	Strain relief comprised of polymeric material		N/A
G.7.4	Cord Entry		N/A
G.7.5	Non-detachable cord bend protection		N/A
G.7.5.1	Requirements		N/A
G.7.5.2	Mass (g)		—
	Diameter (m)		—
	Temperature (°C)		—
G.7.6	Supply wiring space		N/A
G.7.6.2	Stranded wire		N/A
G.7.6.2.1	Test with 8 mm strand		N/A
G.8	Varistors		P
G.8.1	General requirements	Considered in internal power supply unit test	P
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire		N/A
G.8.3.2	Varistor overload test	(See appended table B.3)	N/A
G.8.3.3	Temporary overvoltage	(See appended table B.3)	N/A
G.9	Integrated Circuit (IC) Current Limiters		N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No IC current limiters	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.9.1 b)	Limiters do not have manual operator or reset		N/A
G.9.1 c)	Supply source does not exceed 250 VA :		—
G.9.1 d)	IC limiter output current (max. 5A)..... :		—
G.9.1 e)	Manufacturers' defined drift :		—
G.9.2	Test Program 1		N/A
G.9.3	Test Program 2		N/A
G.9.4	Test Program 3		N/A
G.10	Resistors		N/A
G.10.1	General requirements	No such resistors	N/A
G.10.2	Resistor test		N/A
G.10.3	Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable		N/A
G.10.3.1	General requirements		N/A
G.10.3.2	Voltage surge test		N/A
G.10.3.3	Impulse test		N/A
G.11	Capacitor and RC units		P
G.11.1	General requirements	Considered in internal power supply unit test. Approved X-cap. and Y-cap. used	P
G.11.2	Conditioning of capacitors and RC units		P
G.11.3	Rules for selecting capacitors		P
G.12	Optocouplers		P
	Optocouplers comply with IEC 60747-5-5:2007 Spacing or Electric Strength Test (specify option and test results) :	Considered in internal power supply unit test	P
	Type test voltage Vini :	Considered	—
	Routine test voltage, Vini,b :	Considered	—
G.13	Printed boards		P
G.13.1	General requirements		P
G.13.2	Uncoated printed boards	The insulation between conductors on the outer surfaces of an uncoated printed board is compliant with the minimum requirements of clearances (5.4.2) and creepage distances (5.4.3).	P
G.13.3	Coated printed boards		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
G.13.4	Insulation between conductors on the same inner surface		N/A
	Compliance with cemented joint requirements (Specify construction)		—
G.13.5	Insulation between conductors on different surfaces		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		—
G.13.6	Tests on coated printed boards		N/A
G.13.6.1	Sample preparation and preliminary inspection		N/A
G.13.6.2a)	Thermal conditioning		N/A
G.13.6.2b)	Electric strength test		N/A
G.13.6.2c)	Abrasion resistance test		N/A
G.14	Coating on components terminals		N/A
G.14.1	Requirements	(See G.13)	N/A
G.15	Liquid filled components		N/A
G.15.1	General requirements	No LFC	N/A
G.15.2	Requirements		N/A
G.15.3	Compliance and test methods		N/A
G.15.3.1	Hydrostatic pressure test		N/A
G.15.3.2	Creep resistance test		N/A
G.15.3.3	Tubing and fittings compatibility test		N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test		N/A
G.15.4	Compliance		N/A
G.16	IC including capacitor discharge function (ICX)		N/A
a)	Humidity treatment in accordance with sc5.4.8 – 120 hours	No ICX	N/A
b)	Impulse test using circuit 2 with $U_c =$ to transient voltage		N/A
C1)	Application of ac voltage at 110% of rated voltage for 2.5 minutes		N/A
C2)	Test voltage		—
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest resistance specified by manufacturer		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
D2)	Capacitance		—
D3)	Resistance		—

H	CRITERIA FOR TELEPHONE RINGING SIGNALS		N/A
H.1	General		N/A
H.2	Method A		N/A
H.3	Method B		N/A
H.3.1	Ringling signal		N/A
H.3.1.1	Frequency (Hz)		—
H.3.1.2	Voltage (V)		—
H.3.1.3	Cadence; time (s) and voltage (V)		—
H.3.1.4	Single fault current (mA):		—
H.3.2	Tripping device and monitoring voltage		N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with		N/A
H.3.2.2	Tripping device		N/A
H.3.2.3	Monitoring voltage (V)		—

J	INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION		P
	General requirements	Considered in internal power supply unit test. Approved TIW used	P

K	SAFETY INTERLOCKS		N/A
K.1	General requirements		N/A
K.2	Components of safety interlock safeguard mechanism	(See Annex G)	N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance	(See appended table B.4)	N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test	(See appended table 5.4.11)	N/A

L	DISCONNECT DEVICES		P
L.1	General requirements	A disconnect device by an appliance coupler	P
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment	Disconnect both poles simultaneously	P
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		P
L.8	Multiple power sources		P

M	EQUIPMENT CONTAINING BATTERIES AND THEIR PROTECTION CIRCUITS		N/A
M.1	General requirements		N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A
M.2.2	Compliance and test method (identify method)...		N/A
M.3	Protection circuits		N/A
M.3.1	Requirements		N/A
M.3.2	Tests		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
M.3.3	Compliance	(See appended Tables and Annex M and M.4)	N/A
M.4	Additional safeguards for equipment containing secondary lithium battery		N/A
M.4.1	General		N/A
M.4.2	Charging safeguards		N/A
M.4.2.1	Charging operating limits		N/A
M.4.2.2a)	Charging voltage, current and temperature.....	(See Table M.4)	—

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Clause	Requirement + Test	Result - Remark	Verdict
M.4.2.2 b)	Single faults in charging circuitry	(See Annex B.4)	—
M.4.3	Fire Enclosure		N/A
M.4.4	Endurance of equipment containing a secondary lithium battery		N/A
M.4.4.2	Preparation		N/A
M.4.4.3	Drop and charge/discharge function tests		N/A
	Drop		N/A
	Charge		N/A
	Discharge		N/A
M.4.4.4	Charge-discharge cycle test		N/A
M.4.4.5	Result of charge-discharge cycle test		N/A
M.5	Risk of burn due to short circuit during carrying		N/A
M.5.1	Requirement		N/A
M.5.2	Compliance and Test Method (Test of P.2.3)		N/A
M.6	Prevention of short circuits and protection from other effects of electric current		N/A
M.6.1	Short circuits		N/A
M.6.1.1	General requirements		N/A
M.6.1.2	Test method to simulate an internal fault		N/A
M.6.1.3	Compliance (Specify M.6.1.2 or alternative method)		N/A
M.6.2	Leakage current (mA)		N/A
M.7	Risk of explosion from lead acid and NiCd batteries		N/A
M.7.1	Ventilation preventing explosive gas concentration		N/A
M.7.2	Compliance and test method		N/A
M.8	Protection against internal ignition from external spark sources of lead acid batteries		N/A
M.8.1	General requirements		N/A
M.8.2	Test method		N/A
M.8.2.1	General requirements		N/A
M.8.2.2	Estimation of hypothetical volume V_z (m ³ /s)		—
M.8.2.3	Correction factors		—
M.8.2.4	Calculation of distance d (mm)		—
M.9	Preventing electrolyte spillage		N/A
M.9.1	Protection from electrolyte spillage		N/A
M.9.2	Tray for preventing electrolyte spillage		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
M.10	Instructions to prevent reasonably foreseeable misuse (Determination of compliance: inspection, data review; or abnormal testing)		N/A

N	ELECTROCHEMICAL POTENTIALS		N/A
	Metal(s) used		—

O	MEASUREMENT OF CREEPAGE DISTANCES AND CLEARANCES		P
	Figures O.1 to O.20 of this Annex applied	Considered	—

P	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		P
P.1	General requirements		P
P.2.2	Safeguards against entry of foreign object		N/A
	Location and Dimensions (mm)		—
P.2.3	Safeguard against the consequences of entry of foreign object		P
P.2.3.1	Safeguards against the entry of a foreign object	No any hazardous voltage in openings 5° vertical projection	P
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts		N/A
P.2.3.2	Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard)		N/A
P.3	Safeguards against spillage of internal liquids	No such liquids	N/A
P.3.1	General requirements		N/A
P.3.2	Determination of spillage consequences		N/A
P.3.3	Spillage safeguards		N/A
P.3.4	Safeguards effectiveness		N/A
P.4	Metallized coatings and adhesive securing parts	No such constructions	N/A
P.4.2 a)	Conditioning testing		N/A
	Tc (°C)		—
	Tr (°C)		—
	Ta (°C)		—
P.4.2 b)	Abrasion testing	(See G.13.6.2)	N/A
P.4.2 c)	Mechanical strength testing	(See Annex T)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRING		P
Q.1	Limited power sources	For USB output terminal (see Table Q.1)	P
Q.1.1 a)	Inherently limited output		N/A
Q.1.1 b)	Impedance limited output		P
	- Regulating network limited output under normal operating and simulated single fault condition		P
Q.1.1 c)	Overcurrent protective device limited output		N/A
Q.1.1 d)	IC current limiter complying with G.9		N/A
Q.1.2	Compliance and test method		P
Q.2	Test for external circuits – paired conductor cable	No such external circuits	N/A
	Maximum output current (A)		—
	Current limiting method		—

R	LIMITED SHORT CIRCUIT TEST		N/A
R.1	General requirements		N/A
R.2	Determination of the overcurrent protective device and circuit		N/A
R.3	Test method Supply voltage (V) and short-circuit current (A).		N/A

S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (°C)		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material		—

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Clause	Requirement + Test	Result - Remark	Verdict
	Wall thickness (mm)		—
	Conditioning (°C)		—
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		—
	Wall thickness (mm)		—
	Conditioning (test condition), (°C)		—
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A

T	MECHANICAL STRENGTH TESTS		P
T.1	General requirements		P
T.2	Steady force test, 10 N	Considered for construction check	P
T.3	Steady force test, 30 N		N/A
T.4	Steady force test, 100 N	After test, no damaged	P
T.5	Steady force test, 250 N	After test, no damaged	P
T.6	Enclosure impact test		P
	Fall test	After test, no damaged	P
	Swing test	After test, no damaged	P
T.7	Drop test		N/A
T.8	Stress relief test.....		N/A
T.9	Impact Test (glass)		N/A
T.9.1	General requirements		N/A

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
T.9.2	Impact test and compliance		N/A
	Impact energy (J)		—
	Height (m).....		—
T.10	Glass fragmentation test	(See sub-clause 4.4.4.9)	N/A
T.11	Test for telescoping or rod antennas	No telescoping or rod antennas	N/A
	Torque value (Nm)		—

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
U.1	General requirements	No CRTs	N/A
U.2	Compliance and test method for non-intrinsically protected CRTs		N/A
U.3	Protective Screen	(See Annex T)	N/A

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)		P
V.1	Accessible parts of equipment		P
V.2	Accessible part criterion		P

IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.8.5	TABLE: Lithium coin/button cell batteries mechanical test result		N/A
Test position	Surface tested	Force (N)	Duration force applied (s)
Supplementary information:			

5.2	Table: Classification of electrical energy sources						P
5.2.2.2 – Steady State Voltage and Current conditions							
No.	Supply Voltage (V/Hz)	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				U (Vrms or Vpk)	I (Apk or Arms)	Hz	
1	264/50	External accessed operate port to earth	Normal	0V	-	-	ES1
			Abnormal	-	-	-	-
			Single fault:	-	-	-	-
2	264/50	USB output “+” to “-”	Normal	5V	-	-	ES1
			Abnormal	-	-	-	-
			Single fault:	-	-	-	-

Supplementary information:

- SC - Short-circuited; OC - Open-circuited.

- #: Current ($U_2 / 500$ peak value) is measured using the measuring network specified in Figure 4, IEC 60990:1999.

- @: Current ($U_3 / 500$ peak value) is measured using the measuring network specified in Figure 5, IEC 60990:1999.

5.2.2.3 - Capacitance Limits

No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters		ES Class
				Capacitance, nF	Upk (V)	
1	264/50	Input terminal (Primary input filter circuits)	L to N	CX1= 220nF	374	ES3
			L to earth	-	-	-
			N to earth	-	-	-

5.2.2.4 - Single Pulses

No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				Duration (ms)	Upk (V)	lpk (mA)	
			Normal				
			Abnormal				
			Single fault – SC/OC				

5.2.2.5 - Repetitive Pulses

No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Parameters			ES Class
				Off time (ms)	Upk (V)	lpk (mA)	
			Normal				
			Abnormal				
			Single fault – SC/OC				

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:
1) SC=Short Circuit, OC=Open Circuit.

5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Temperature measurements					P
	Supply voltage (V)	264/50	90/60	264/50	90/60	—
	Ambient T _{min} (°C)	35.0	35.0	35.0	35.0	—
	Ambient T _{max} (°C)	35.0	35.0	35.0	35.0	—
	T _{ma} (°C)	45.0				—
Maximum measured temperature T of part/at:		T (°C)				Allowed T _{max} (°C)
EUT power supply by:		Power A port		Power B port		-
Input wire		36.9	37	36.7	36.8	105
AC inlet		43.2	45.3	43.4	45.1	--
ZV1 Varistor for PSU		51.9	63.9	52.1	63.8	85
L1 transformer coil for PSU		58.3	79.6	59.5	83.1	120
P1 Opto-coupler for PSU		52.4	51.8	52.7	52.1	100
C1 capacitor for PSU		60.0	69.1	60.5	69.3	105
C9 capacitor for PSU		53.8	53.0	53.9	53.3	105
CY1 capacitor for PSU		54.5	55.7	54.6	55.6	125
PCB near HS2 for PSU		56.7	63.9	57.2	64.7	130
PCB near HS1 for PSU		66.5	65.2	69.9	68.1	130
T1 coil for PSU		65.0	64.2	65.7	64.5	110
T1 core for PSU		72.0	71.0	72.3	71.5	110
Output wire		44.9	48.0	45.3	48.5	105
PCB near C33		52.7	54.1	52.8	54.0	130
PCB near U22		71.7	72.1	71.5	72.2	130
T2 signal transformer		52.7	53.5	52.8	53.6	90
DC fan 1		44.3	45.4	45.2	45.1	70
DC fan 2		45.6	46.7	45.0	45.9	70
DC fan 3		47.2	48.0	47.7	48.3	70
DC fan 4		36.1	36.6	36.4	36.7	70
Metal enclosure outside		35.6	38.7	35.9	38.5	70
Switch		38.7	35.5	38.5	35.7	85
Ambient		35.0	35.0	35.0	35.0	--

Supplementary information:
PSU: Power supply unit.

Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

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Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

5.4.1.10.2	TABLE: Vicat softening temperature of thermoplastics		N/A
Penetration (mm)			—
Object/ Part No./Material	Manufacturer/t rademark	T softening (°C)	
supplementary information:			

5.4.1.10.3	TABLE: Ball pressure test of thermoplastics			N/A
Allowed impression diameter (mm)	≤ 2 mm			—
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)	
-				
Supplementary information:				
1) T1/LF1 bobbin is phenolic material, no test required.				

5.4.2.2, 5.4.2.4 and 5.4.3	TABLE: Minimum Clearances/Creepage distance							P
Clearance (cl) and creepage distance (cr) at/of/between:	Up (V)	U r.m.s. (V)	Frequenc y (kHz) ¹	Required cl (mm)	cl (mm) ²	Required ³ cr (mm)	cr (mm)	
Basic/supplementary								
Primary to metal enclosure	2000	240	<1	1.27	3.0	2.4	3.0	
Primary to SELV circuit (connected earth)	2000	240	<1	1.27	3.0	2.4	2.6	
Reinforce/double								
Primary to SELV circuit (not connected earth)	2000	240	<1	2.54	7.7	4.8	7.7	
Supplementary information:								

5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage				P
	Overvoltage Category (OV):				II
	Pollution Degree:				2
Clearance distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)		
Primary to metal enclosure	2500V	1.5	3.0		
Primary to SELV circuit (connected earth)	2500V	1.5	2.6		
Primary to SELV circuit (not connected earth)	4000V	3.0	7.7		
Supplementary information:					

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Clause	Requirement + Test	Result - Remark	Verdict
5.4.2.4	TABLE: Clearances based on electric strength test		N/A
Test voltage applied between:		Required cl (mm)	Test voltage (kV) peak/ r.m.s. / d.c.
			Breakdown Yes / No
Supplementary information:			

5.4.4.2, 5.4.4.5 c) 5.4.4.9	TABLE: Distance through insulation measurements				N/A
Distance through insulation di at/of:	Peak voltage (V)	Frequency (kHz)	Material	Required DTI (mm)	DTI (mm)
Supplementary information:					

5.4.9	TABLE: Electric strength tests			P
Test voltage applied between:		Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
L&N to Metal enclosure		AC	1500	No
L&N to Accessible part(connected earth)		AC	1500	No
L&N to Accessible part(disconnected earth)		AC	3000	No
Supplementary information:				

5.5.2.2	TABLE: Stored discharge on capacitors				P
Supply Voltage (V/Hz)	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (V) (after 2 seconds)	ES Classification
264/50	L to N	N	-	8	ES1
		S (RX1 opened)	-	14	ES1
Supplementary information: X-capacitors installed for testing are: - bleeding resistor rating: 392KΩ. - ICX: CX1=0.22uF. Notes: A. Test Location: Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth B. Operating condition abbreviations: N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition C. The resistor passed G.10.1 and G.10.2 of IEC62368-1 test, so no need to perform discharge test under single fault condition					

5.6.6.2	TABLE: Resistance of protective conductors and terminations				P
Accessible part	Test current (A)	Duration (min)	Voltage drop (V)	Resistance (mΩ)	
Earthing terminal to metal enclosure	32	2	--	16	
Supplementary information:					

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Clause	Requirement + Test	Result - Remark	Verdict
5.7.2.2, 5.7.4	TABLE: Earthed accessible conductive part		P
Supply voltage (V/Hz)..... :		-	—
Location	Test conditions specified in 6.1 of IEC 60990 or Fault Condition No in IEC 60990 clause 6.2.2.1 through 6.2.2.8, except for 6.2.2.7		Touch current (mA)
	Fault conditions:		
	6.2.2.1 (Earth open) (For reference only)		0.278mA
	* 6.2.2.2 (Neutral open)		--
	6.2.2.3 (phase conductor faulted to earth, for IT system)		--
	6.2.2.4 (each phase conductor open, for three-phase equipment)		--
	6.2.2.5 (each phase faulted to earth or each phase conductor open, for single-phase equipment for use on IT system or on three-phase delta system)		--
	6.2.2.6 (each delta-leg centre-earthed, for three-phase equipment for use on centre-earthed delta supply system)		--
Supplementary Information: [1] Supply voltage is the anticipated maximum Touch Voltage. [2] Earthed neutral conductor [Voltage differences less than 1% or more]. [3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3. [4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable. [5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.			

6.2.2 Table: Electrical power sources (PS) measurements for classification						P
Source	Description	Measurement	Max Power after 3 s	Max Power after 5 s ^{*)}	PS Classification	
Load circuits	USB output “+” to “-”	Power (W) :	-	4.44	PS1	
		V _A (V) :	-	4.99		
		I _A (A) :	-	0.890		
Power source circuits		Power (W) :	-	7.99	PS1 (Fault condition: U22 Pin 1-2 SC)	
		V _A (V) :	-	4.99		
		I _A (A) :	-	1.561		
Load circuits & Power source circuits	All internal primary circuits	Power (W) :	-	-	# PS3	
		V _A (V) :	-	-		
		I _A (A) :	-	-		
Supplementary Information: 1) #: Manufacturer declare: All circuits inside the equipment enclosure are declared as of PS3.						

IEC 62368-1				
Clause	Requirement + Test	Result - Remark		Verdict
6.2.3.1	Table: Determination of Potential Ignition Sources (Arcing PIS)			P
Location	Open circuit voltage After 3 s (V _p)	Measured r.m.s current (I _{rms})	Calculated value (V _p x I _{rms})	Arcing PIS? Yes / No
All circuits (exclude the output terminal)	-	-	-	Yes
Supplementary information: 1) An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V _p) and normal operating condition rms current (I _{rms}) is greater than 15. 2) Assumption: All circuits inside the equipment enclosure are declared as arcing PIS.				

6.2.3.2	Table: Determination of Potential Ignition Sources (Resistive PIS)				P
Circuit Location (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
All circuits (include output terminal)	-	-	-	-	Yes
Supplementary Information: 1) A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter. If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification. 2) A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault. 3) Assumption: All circuits inside the equipment enclosure are declared as resistive PIS.					

8.5.5	TABLE: High Pressure Lamp		N/A
Description	Values	Energy Source Classification	
Lamp type		—	
Manufacturer		—	
Cat no.		—	
Pressure (cold) (MPa)		MS_	
Pressure (operating) (MPa)		MS_	
Operating time (minutes)		—	
Explosion method		—	
Max particle length escaping enclosure (mm) .:		MS_	
Max particle length beyond 1 m (mm).....:		MS_	
Overall result			
Supplementary information:			

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Clause	Requirement + Test					Result - Remark	Verdict
B.2.5	TABLE: Input test						P
U (V)	I (A)	I rated (A)	P (W)	P rated (W)	Fuse No.	I fuse (A)	Condition/status
Power supply by Power A (Power B disconnected)							
90V/50Hz	0.815	--	45.93	--	F1	0.815	Max. normal load
90V/60Hz	0.813	--	45.95	--	F1	0.813	Max. normal load
100V/50Hz	0.745	1.5	45.24	--	F1	0.745	Max. normal load
100V/60Hz	0.745	1.5	45.26	--	F1	0.745	Max. normal load
240V/50Hz	0.355	1.5	44.14	--	F1	0.355	Max. normal load
240V/60Hz	0.353	1.5	44.24	--	F1	0.353	Max. normal load
264V/50Hz	0.323	--	44.43	--	F1	0.323	Max. normal load
264V/60Hz	0.329	--	44.35	--	F1	0.329	Max. normal load
Power supply by Power B (Power A disconnected)							
90V/50Hz	0.825	--	45.82	--	F1	0.825	Max. normal load
90V/60Hz	0.822	--	45.78	--	F1	0.822	Max. normal load
100V/50Hz	0.748	1.5	45.24	--	F1	0.748	Max. normal load
100V/60Hz	0.745	1.5	45.18	--	F1	0.745	Max. normal load
240V/50Hz	0.356	1.5	44.26	--	F1	0.356	Max. normal load
240V/60Hz	0.356	1.5	44.31	--	F1	0.356	Max. normal load
264V/50Hz	0.331	--	44.49	--	F1	0.331	Max. normal load
264V/60Hz	0.333	--	44.44	--	F1	0.333	Max. normal load
Power supply by Power B (Power A connected: 17.1W)							
90V/50Hz	0.505	--	28.35	--	F1	0.505	Max. normal load
90V/60Hz	0.506	--	28.23	--	F1	0.506	Max. normal load
100V/50Hz	0.462	1.5	28.03	--	F1	0.462	Max. normal load
100V/60Hz	0.465	1.5	27.97	--	F1	0.465	Max. normal load
240V/50Hz	0.234	1.5	27.88	--	F1	0.234	Max. normal load
240V/60Hz	0.236	1.5	27.90	--	F1	0.236	Max. normal load
264V/50Hz	0.221	--	28.10	--	F1	0.221	Max. normal load
264V/60Hz	0.222	--	28.13	--	F1	0.222	Max. normal load
Power supply by Power A (Power B connected: 27.9W)							
90V/50Hz	0.307	--	16.86	--	F1	0.307	Max. normal load
90V/60Hz	0.306	--	16.83	--	F1	0.306	Max. normal load
100V/50Hz	0.279	1.5	16.79	--	F1	0.279	Max. normal load
100V/60Hz	0.281	1.5	16.83	--	F1	0.281	Max. normal load
240V/50Hz	0.160	1.5	17.05	--	F1	0.160	Max. normal load
240V/60Hz	0.165	1.5	17.07	--	F1	0.165	Max. normal load
264V/50Hz	0.154	--	17.18	--	F1	0.154	Max. normal load
264V/60Hz	0.158	--	17.16	--	F1	0.158	Max. normal load
Supplementary information:							

IEC 62368-1								
Clause	Requirement + Test				Result - Remark			Verdict
B.3	TABLE: Abnormal operating condition tests							P
Ambient temperature (°C)					See below			—
Power source for EUT: Manufacturer, model/type, output rating ..					-			—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
Ventilation openings	Blocked	240	88mins	F1	0.356	Type K	T1 winding: 90.3°C Metal enclosure: 46.6°C Ambient: 35.0°C	Duration the test, no fire, no hazards occur.
Fan	Blocked	240	81mins	F1	0.350	Type K	T1 winding: 70.5°C Metal enclosure: 38.2°C Ambient: 35.0°C	Duration the test, no fire, no hazards occur
USB port	Overload	240	60mins	F1	0.347	--	--	After short circuit, USB output drop to 0V immediately. Duration the test, no fire, no hazards occur.
USB port	Short circuit	240	60mins	F1	0.361	--	--	The overload current is 0.87A, when load current exceeds to 0.87A, the USB output drop to 0V. Duration the test, no fire, no hazards occur.
LAN port	Overload	240	60mins	F1	0.356	--	--	Duration the test, no fire, no hazards occur.

IEC 62368-1								
Clause	Requirement + Test					Result - Remark		Verdict
B.3	TABLE: Abnormal operating condition tests							P
Ambient temperature (°C)						See below		—
Power source for EUT: Manufacturer, model/type, output rating .. :						-		—
Component No.	Abnormal Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
GE port	Overload	240	60mins	F1	0.356	--	--	Duration the test, no fire, no hazards occur.
CONSOLE port	Overload	240	60mins	F1	0.356	--	--	Duration the test, no fire, no hazards occur.
Supplementary information:								
1) OL: overload. 2) The Hi-pot test conducted successfully after the completion of fault condition test. 3) Output terminal does not exceed ES1 limits. 4) Temperature limits under the fault condition: <ul style="list-style-type: none"> • Power Transformer: 165°C • Enclosure outside: 87°C 								

B.4 TABLE: Fault condition tests									P
Ambient temperature (°C)						25 (except specified)		—	
Power source for EUT: Manufacturer, model/type, output rating .. :						-		—	
Component No.	Fault Condition	Supply voltage, (V)	Test time	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation	
U13 Pin 1-2	Short circuit	240	10mins	F1	0.317	--	--	Duration the test, no fire, no hazards occur.	
C315	Short circuit	240	10mins	F1	0.311	--	--	Duration the test, no fire, no hazards occur.	
U15 Pin 1-2	Short circuit	240	10mins	F1	0.315	--	--	Duration the test, no fire, no hazards occur.	
C317	Short circuit	240	10mins	F1	0.311	--	--	Duration the test, no fire, no hazards occur.	

IEC 62368-1								
Clause	Requirement + Test					Result - Remark		Verdict
C4	Short circuit	240	10mins	F1	0.018	--	--	Duration the test, no fire, no hazards occur.
C2	Short circuit	240	10mins	F1	0.017	--	--	Duration the test, no fire, no hazards occur.
U19 Pin 1-2	Short circuit	240	10mins	F1	0.310	--	--	Duration the test, no fire, no hazards occur.
C333	Short circuit	240	10mins	F1	0.311	--	--	Duration the test, no fire, no hazards occur.
U27 Pin 2-3	Short circuit	240	10mins	F1	0.315	--	--	Duration the test, no fire, no hazards occur.
C215	Short circuit	240	10mins	F1	0.309	--	--	Duration the test, no fire, no hazards occur.
U12 Pin 1-2	Short circuit	240	10mins	F1	0.319	--	--	Duration the test, no fire, no hazards occur.
C299	Short circuit	240	10mins	F1	0.311	--	--	Duration the test, no fire, no hazards occur.
C40	Short circuit	240	10mins	F1	0.310	--	--	Duration the test, no fire, no hazards occur.
C33	Short circuit	240	10mins	F1	0.310	--	--	Duration the test, no fire, no hazards occur.
U6 Pin 1-2	Short circuit	240	10mins	F1	0.309	--	--	Duration the test, no fire, no hazards occur.
U7 Pin 1-2	Short circuit	240	10mins	F1	0.312	--	--	Duration the test, no fire, no hazards occur.
C31	Short circuit	240	10mins	F1	0.307	--	--	Duration the test, no fire, no hazards occur.

IEC 62368-1								
Clause	Requirement + Test					Result - Remark		Verdict
U8 Pin 1-2	Short circuit	240	10mins	F1	0.311	--	--	Duration the test, no fire, no hazards occur.
C32	Short circuit	240	10mins	F1	0.307	--	--	Duration the test, no fire, no hazards occur.
Supplementary information: 1) OL: overload. SC: short circuit. 2) The Hi-pot test conducted successfully after the completion of fault condition test. 3) Output terminal does not exceed ES1 limits. 4) #: Test repeated with all alternate sources and results were same. 5) Temperature limits under the fault condition: <ul style="list-style-type: none"> Power Transformer: 165°C Enclosure outside: 87°C 								

Annex M	TABLE: Batteries								N/A
The tests of Annex M are applicable only when appropriate battery data is not available									-
Is it possible to install the battery in a reverse polarity position?									-
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition									
Test results:									Verdict
- Chemical leaks									-
- Explosion of the battery									-
- Emission of flame or expulsion of molten metal									-
- Electric strength tests of equipment after completion of tests									-
Supplementary information:									

Annex M.4	Table: Additional safeguards for equipment containing secondary lithium batteries	N/A
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IEC 62368-1			
Clause	Requirement + Test	Result - Remark	Verdict

Battery/Cell No.	Test conditions	Measurements			Observation
		U	I (A)	Temp (C)	
	Normal				
	Abnormal				
	Single fault –SC/OC				

Supplementary Information:

Battery identification	Charging at T_{lowest} (°C)	Observation	Charging at $T_{highest}$ (°C)	Observation

Supplementary Information:

Annex Q.1	TABLE: Circuits intended for interconnection with building wiring (LPS)	P
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Note: Measured UOC (V) with all load circuits disconnected:

Output Circuit	Components	U _{oc} (V)	I _{sc} (A)		S (VA)	
			Meas.	Limit	Meas.	Limit
USB output	Normal operation	4.99	0.890	8	4.44	100
	U22 Pin 1-2 SC	4.99	1.561	8	7.99	100

Supplementary Information:

T.2, T.3, T.4, T.5	TABLE: Steady force test	P
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Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Internal components	-	-	10	5	*
Top enclosure (above PSU)	Metal	Min. 1.5	100	5	*
Bottom enclosure (under PSU)	Metal	Min. 1.5	100	5	*
Side enclosure (near PSU)	Metal	Min. 1.5	100	5	*

Supplementary information:

* During and after the application of the test force, clearance and creepage distances were not reduced below their required values; there was no rupture, leaks or loosening of any connection or part.

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Clause	Requirement + Test	Result - Remark	Verdict

T.6, T.9	TABLE: Impact tests			P
Part/Location	Material	Thickness (mm)	Vertical distance (mm)	Observation
Top enclosure (above PSU)	Metal	Min. 1.5	1300	
Bottom enclosure (under PSU)	Metal	Min. 1.5	1300	*
Side enclosure (near PSU)	Metal	Min. 1.5	1300	*

Supplementary information:

* During and after the application of the test force, clearance and creepage distances were not reduced below their required values; there was no rupture, leaks or loosening of any connection or part.

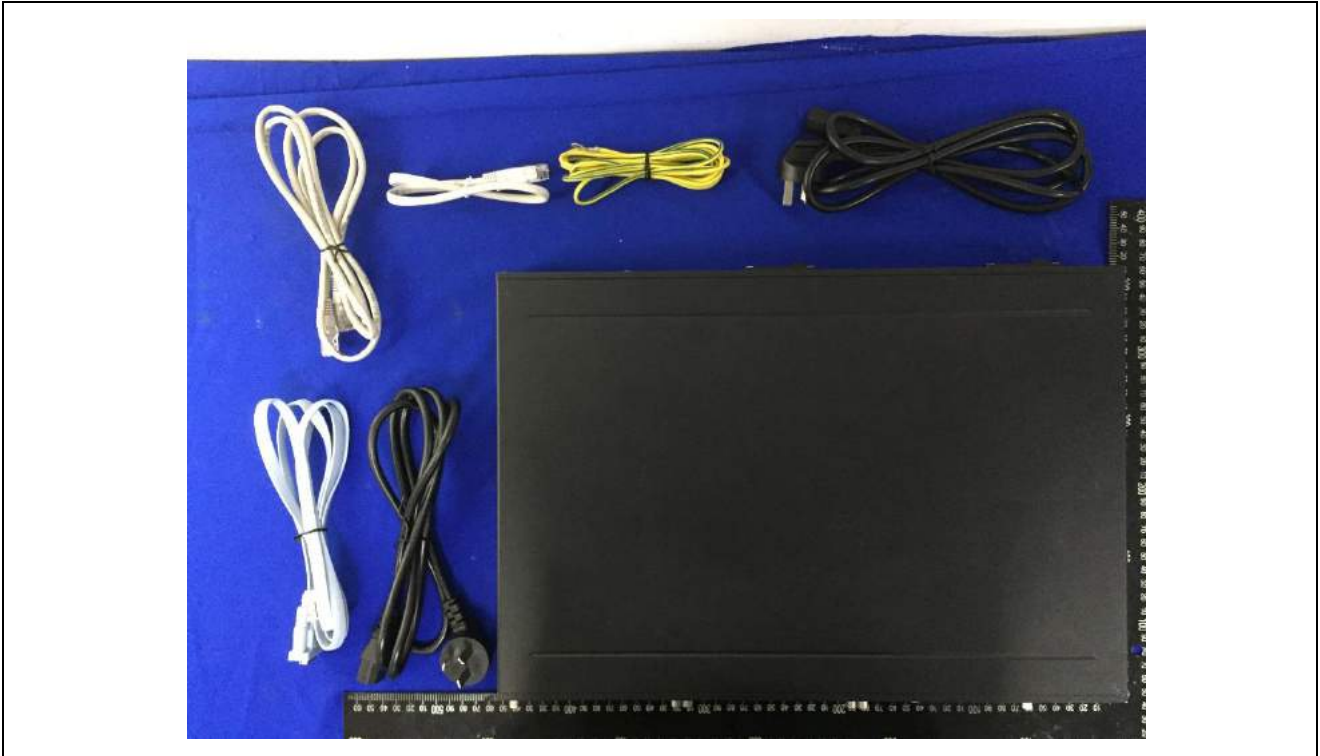
T.7	TABLE: Drop tests			N/A
Part/Location	Material	Thickness (mm)	Drop Height (mm)	Observation

Supplementary information:

T.8	TABLE: Stress relief test				N/A
Part/Location	Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation

Supplementary information:

Details of: Overview 01



Details of: Overview 02

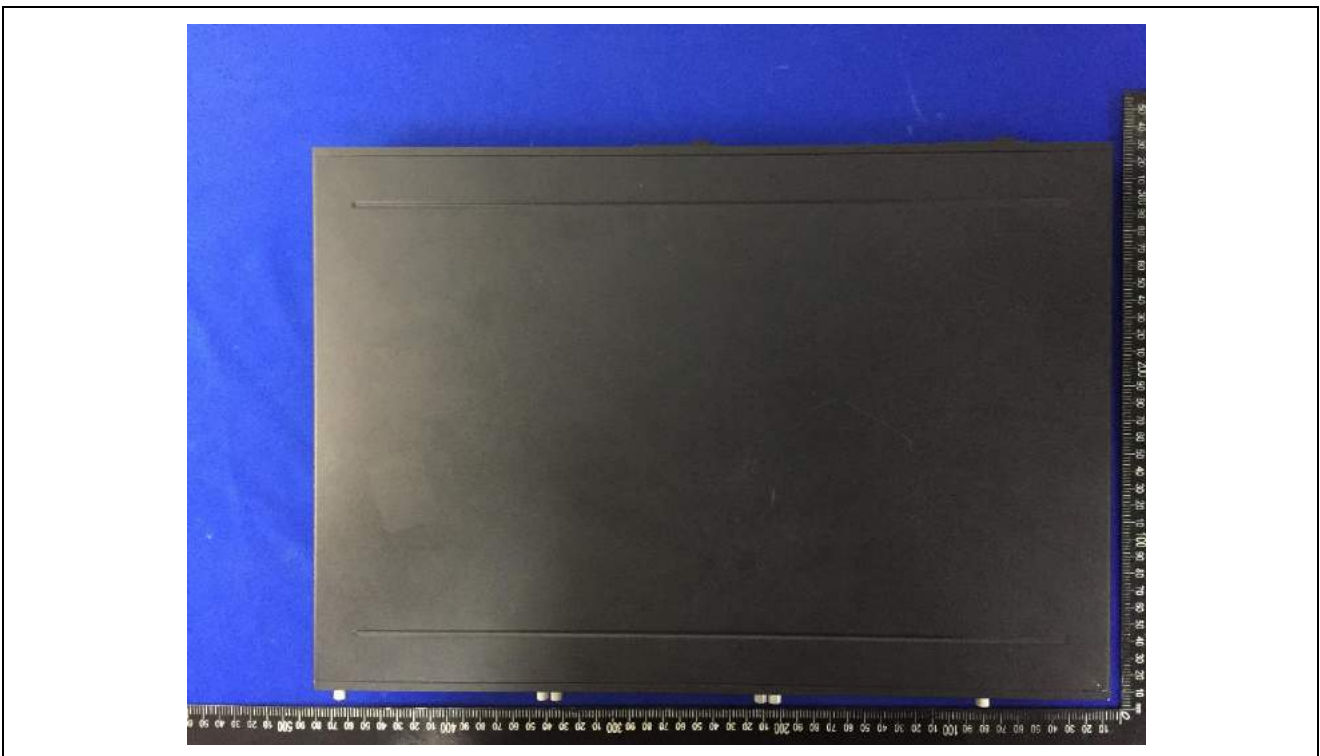
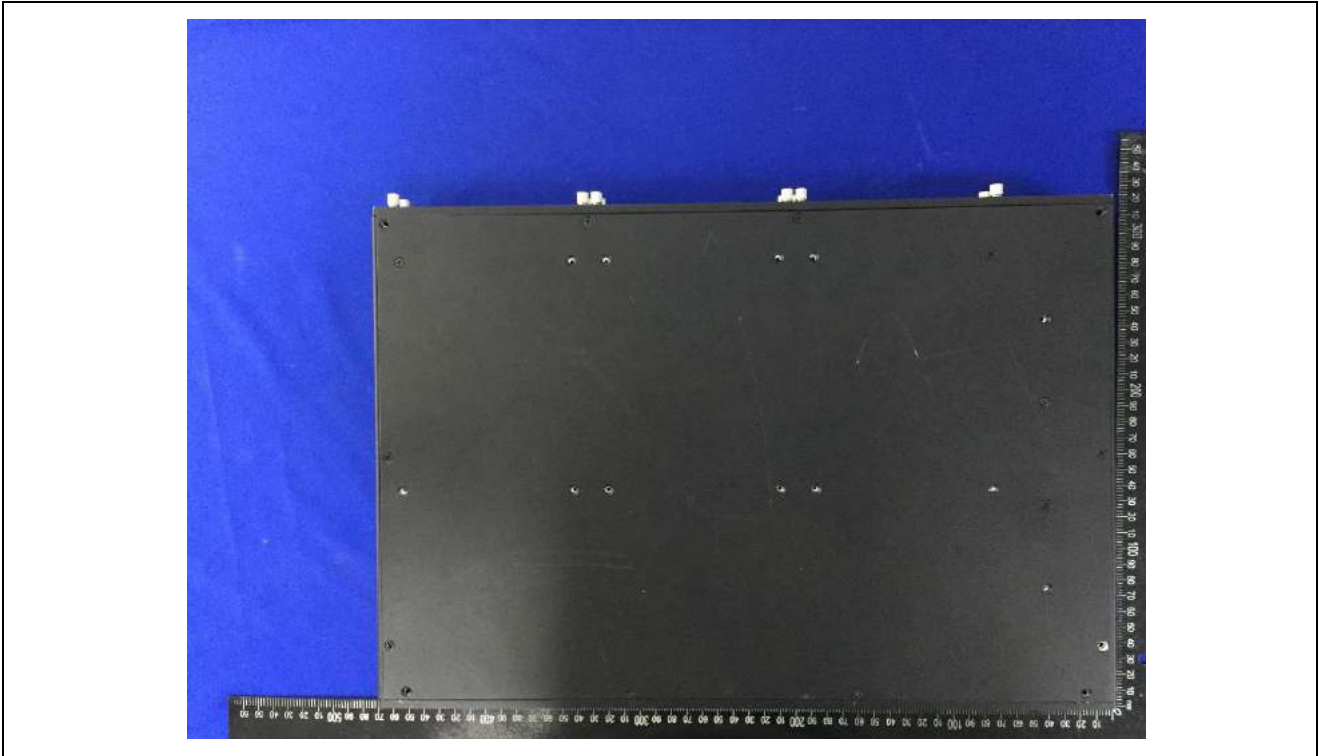


Photo documentation

Details of: Overview 03



Details of: Port view 01



Photo documentation

Details of: Port view 02



Details of: Enclosure openings view 01

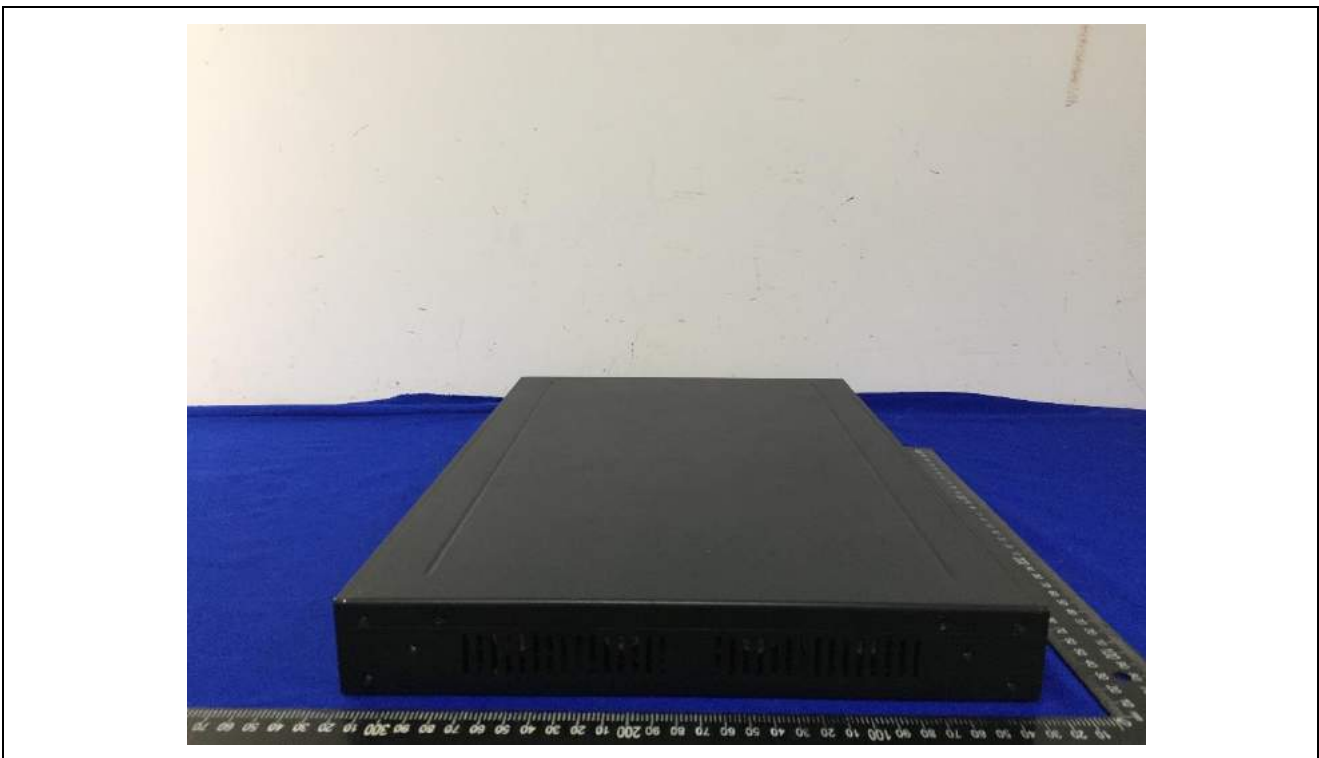


Photo documentation

Details of: Enclosure openings view 02

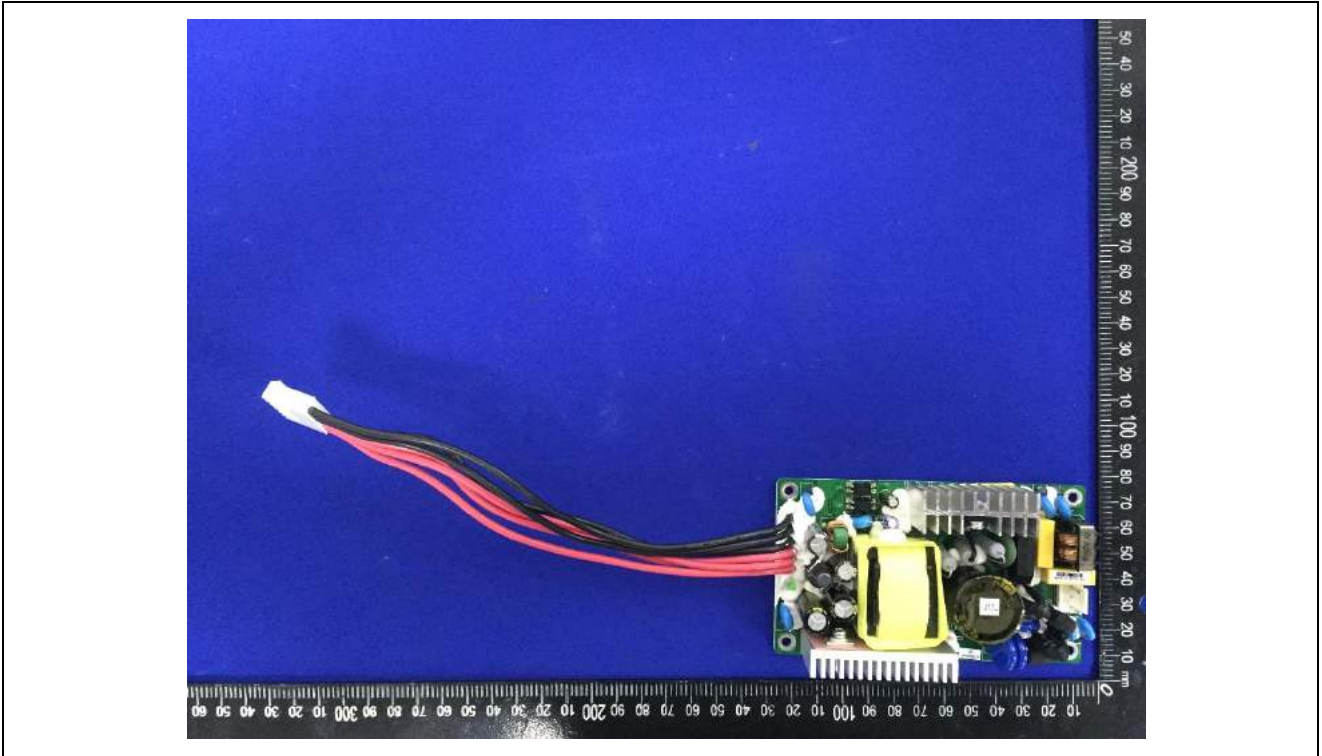


Details of: Internal view 01



Photo documentation

Details of: Power supply unit view 01



Details of: Power supply unit view 02

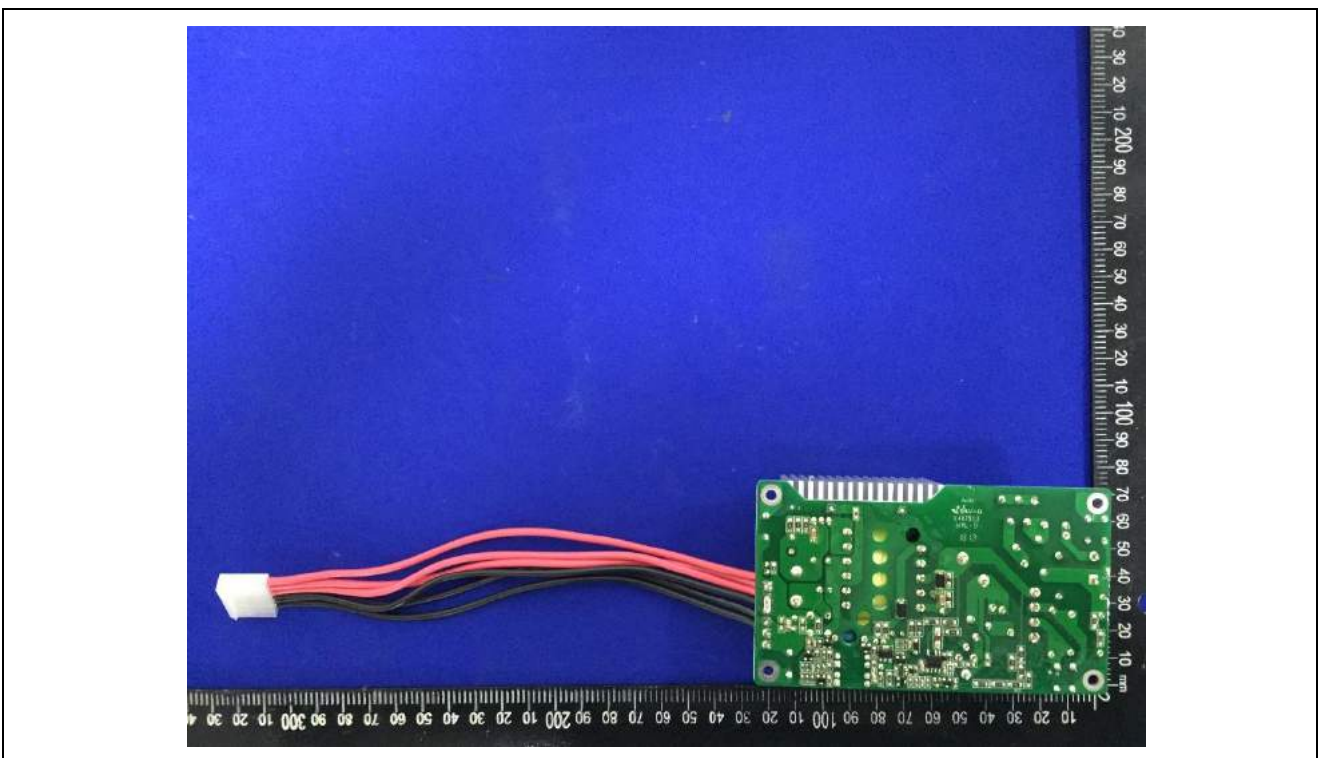
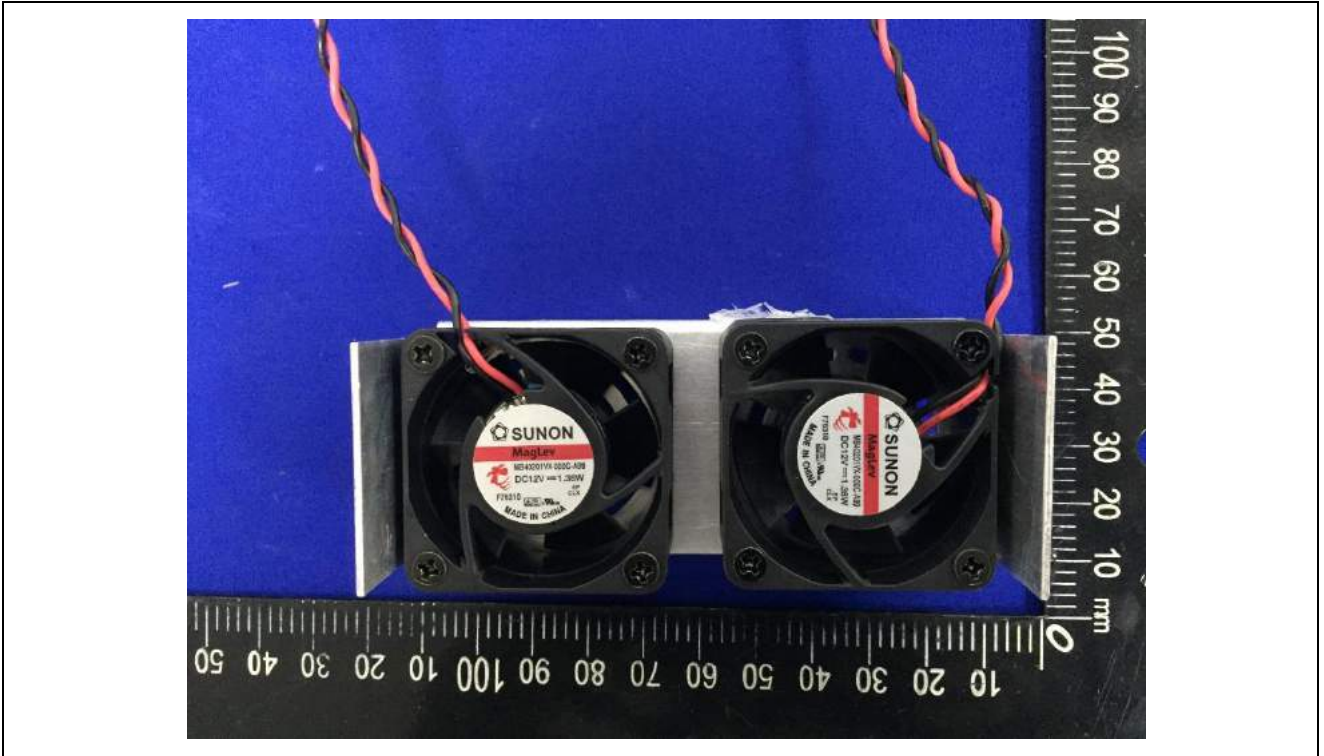


Photo documentation

Details of: Fan view 01



Details of: Fan view 02

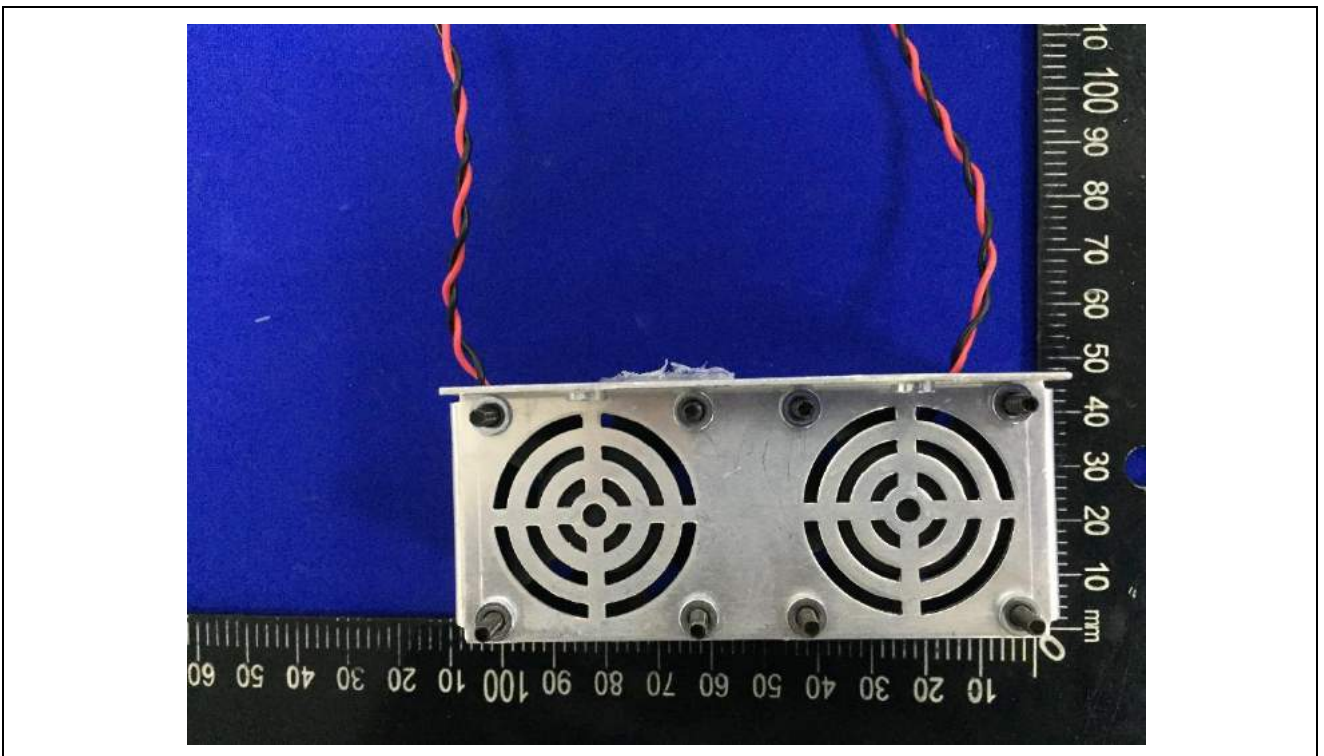


Photo documentation

Details of: PCB view 01



Details of: PCB view 02



Photo documentation

Details of: PCB view 03

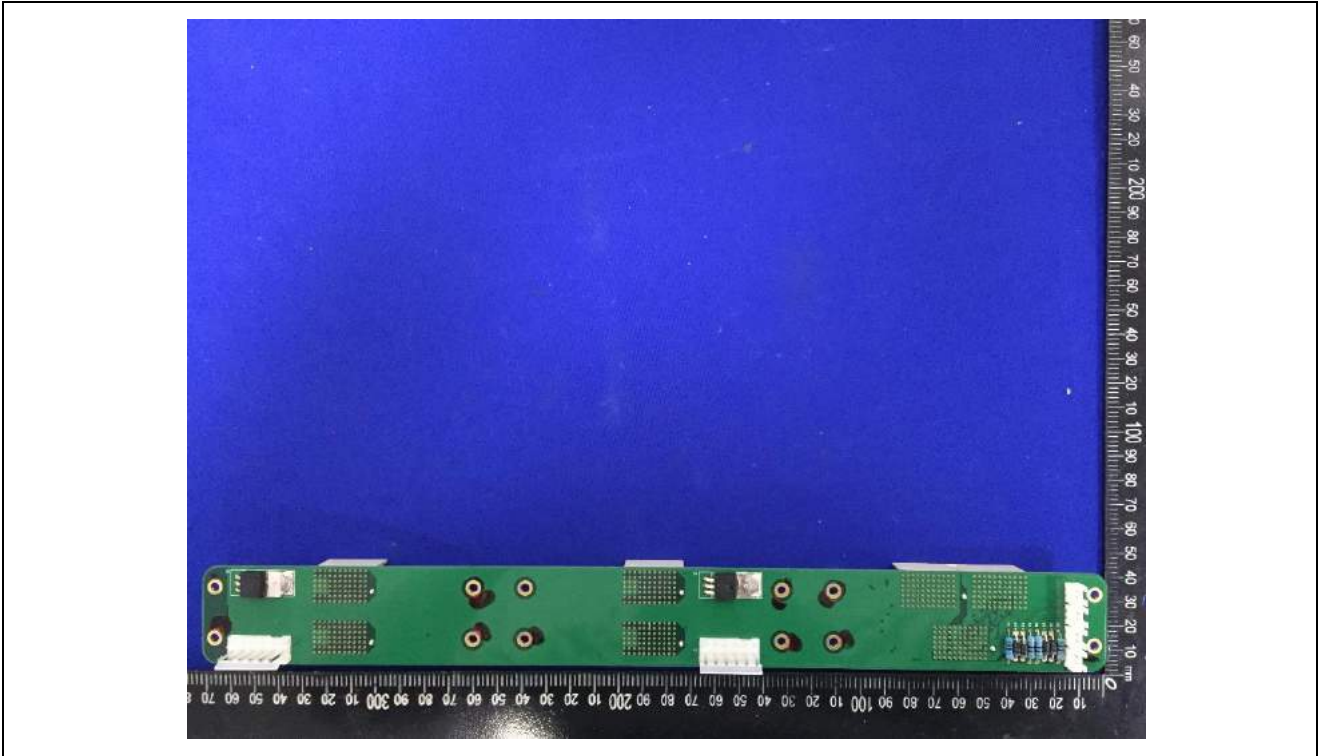


Details of: PCB view 04

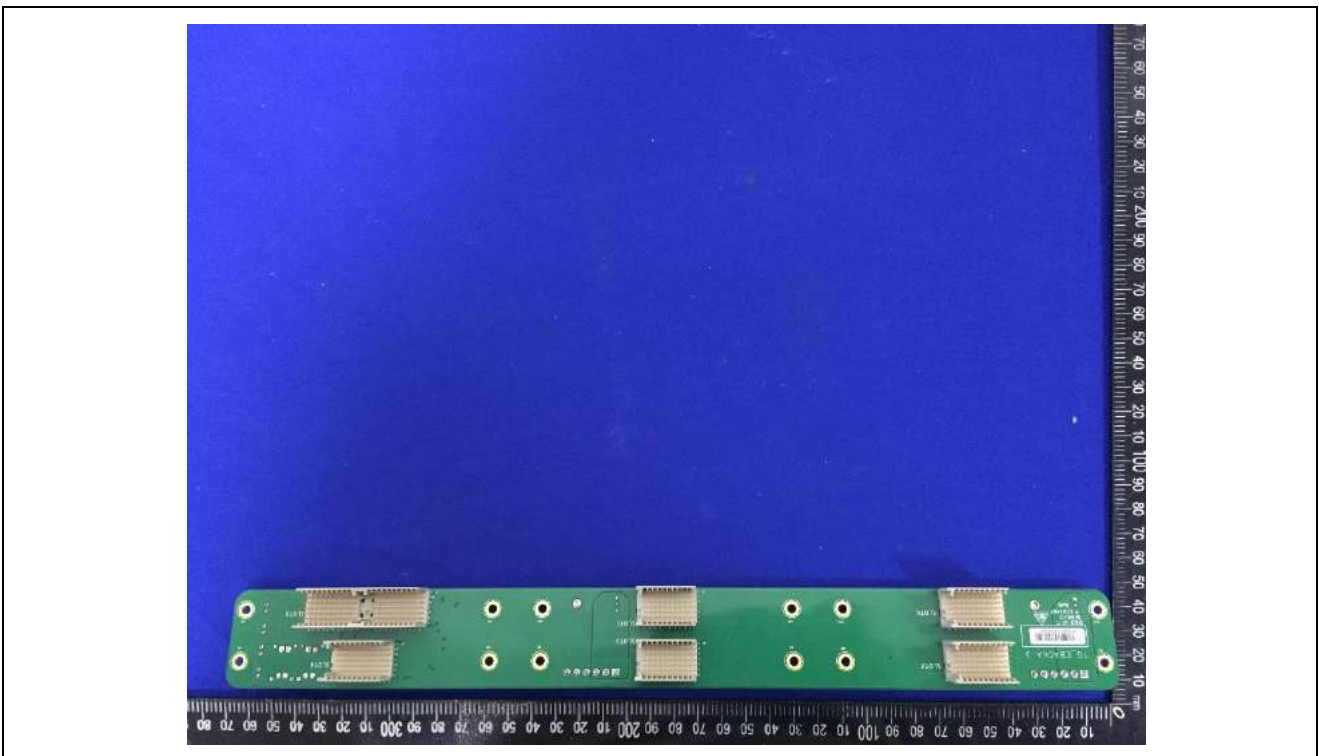


Photo documentation

Details of: PCB view 05



Details of: PCB view 06



--- END OF TEST REPORT ---



EU Declaration of Conformity

(No. CE-04302496)

We **Huawei Technologies Co., Ltd.**

**Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C**

declare under our own responsibility that the product

Name/Trademark Server/HUAWEI

Model

H22H-05, 2288H V5, FusionServer 2288H V5

comply with the following directives and regulations:

- **2014/35/EU (Low Voltage Directive)**
- **2014/30/EU (EMC Directive)**
- **2011/65/EU (RoHS Directive)**
- **(EU) No 617/2013(ERP Regulation)**

For the evaluation of the compliance with these Directives and Regulations, the following standards/requirements were applied:

Safety	IEC 60950-1:2005(2nd Edition)+A1:2009 and/or EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
EMC	EN 55032:2012/AC:2013 CISPR 32:2012 EN 55032:2015 CISPR 32:2015 EN 55024:2010 CISPR 24:2010 EN 55024:2010+A1:2015 CISPR 24:2010+A1:2015 ETSI EN 300 386 V1.6.1:2012 ETSI EN 201 468 V1.4.1:2014 EN61000-3-2:2014 EN61000-3-3:2013 EN61000-6-2:2005 EN61000-6-4:2006+A1:2010
RoHS	EN 50581: 2012

CE Marking Date: Aug 28, 2018

Responsible for making this declaration is the:

Manufacturer Authorised representative established within the EU

Person responsible for making this declaration

Print name/Title : Zhang Fang Regulation Compliance Manager

China, Shenzhen Aug 30, 2018
(Place) (Date)

Zhang Fang
(Signature)



Shenzhen Zhongjian Nanfang Testing Co., Ltd.

VERIFICATION OF CONFORMITY

Verification No: CCISE180405801V
Applicant: SHENZHEN DINSTAR Co., Ltd.
Address of Applicant: 9F, Guoxing Building, Changxing Road, Nanshan District,
Shenzhen, Guangdong, P.R. China
Product Name: Trunk Gateway
Model No.: MTG2000

Sufficient samples of the product have been tested and found to be in conformity with

Applicable standards: EN 55032:2015
EN 55035:2017
EN 61000-3-2:2014
EN 61000-3-3:2013

**As shown in the
Test report number(s):** CCISE180405801

This verification of Conformity has been granted to the applicant based on the results of the tests, performed by laboratory of Shenzhen Zhongjian Nanfang Testing Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and Directive 2014/30/EU. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Bruce Zhang

Laboratory Manager 27 Jun., 2018

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Shenzhen Zhongjian Nanfang Testing Co., Ltd.

VERIFICATION OF CONFORMITY

Verification No: CCISS180703301V
Applicant: SHENZHEN DINSTAR Co., Ltd.
Address of Applicant: 9F, Guoxing Building, Changxing Road, Nanshan District, Shenzhen, Guangdong, P.R.China.
Product Name: Trunk Gateway
Model No.: MTG2000

Sufficient samples of the product have been tested and found to be in conformity with

Applicable standards: EN 62368-1:2014/A11:2017

As shown in the
Test report number(s): CCISS180703301

This verification of conformity has been granted to the applicant based on the results of the tests, performed by laboratory of Shenzhen Zhongjian Nanfang Testing Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and Safety Directive 2014/35/EU. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Bruce Zhang

Laboratory Manager

01 Aug., 2018



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