



Test Report

Report No: JAT23081702137RR-2

Date: 2023-08-21

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Applicant : Zhuhai Telehof Electrics Co.,Ltd
Address : 3/F ,Phase I , No.6 Jinhua Road, Xiaolin ,Hongqi Township,Jinwan District,Zhuhai City,China
Manufacturer : Zhuhai Telehof Electrics Co.,Ltd
Address : 3/F ,Phase I , No.6 Jinhua Road, Xiaolin ,Hongqi Township,Jinwan District,Zhuhai City,China

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : Surge Protection Device for Information Technology System
Trade Name : Telebahn
Sample Model : See model list and difference
Sample Received Date : 2023-08-12
Testing Period : 2023-08-12 to 2023-08-21
Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.
Test Method : Please refer to next page(s).
Test Result : PASS. Please refer to next page(s).

Signed for and on behalf of



Tim You/ Approved Signatory

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Dongguan Junan Testing & Certification Co., Ltd.

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Model list and difference:

Model	Rating
BS LC../BS SC.. BS LD../BS SD.. /BS L CD../BS SHFD../BS HFD..	UN:5-110V Uc:7V-180VDC IL:0.5-1A limp:2.5kA-5kA(total) In:10kA-20kA ta:1ns R:1-2.2Ω
BS LC..4M/BS SC..4M BS LD..4M/BS SD..4M /BS L CD..4M/BS SHFD..4M/BS HFD..4M/BS RS	UN:5-110V Uc:7V-180VDC IL:0.5-1A limp:2.5kA-5kA(total) In:10kA-20kA ta:1ns R:1-2.2Ω
BS RK SD../BS RK SC.. BS RK C..	UN:5-110V Uc:7V-180VDC IL:0.5-1A limp:0.5kA-1kA(total) In:5kA-10kA ta:1ns R:1-2.2Ω
BS RK 5../BS RK 24.. BS 4RK..	UN:5-110V Uc:7V-180VDC IL:0.5-1A limp:1kA-2kA(total) In:10kA-20kA ta:1ns R:1-5.1Ω
BS LSA../BS LSA X..	UN:5-110V Uc:7V-180VDC IL:0.5-1A limp:1kA-2kA(total) In:5kA-10kA ta:1ns R:1-22Ω
BS TTY../BS AD../BS RS485..	UN:5-110V Uc:7V-180VDC IL:0.5-10A limp:1kA-2kA(total) In:5kA-10kA ta:1ns R:1-4Ω
BS NP 4TP../BS NP 4TP..1X /BS NP 4TP..2X/BS NP 4TP..3X	UN:5-60V Uc:7V-70VDC IL:0.5-1A limp:1kA-2kA(total) In:5kA-10kA ta:1ns Vs:1000Mbit/s

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BS RJ45../BS POE.. /BS RJ11../BS RJ12../BS RMT../	UN:5-60V Uc:7V-70VDC IL:0.5-1A Iimp:1kA-2kA(total) In:5kA-10kA t _A :1ns Vs:1000Mbit/s
BS G../BS GF../BS N..	UN:90-230V Uc:90V-250VDC IL:0.5-10A Iimp:1kA In:5kA-10kA t _A :100ns F:0-6GHz
BS RS...P	UN:5-48V Uc:8V-55VDC IL:0.5-3A In:3kA t _A :1ns F:40MHz
BS PI SCD..M	UN:5-48V Uc:8V-55VDC IL:0.55A In:10kA t _A :1ns fg:67MHz
BS V..IN../BS RJ45..IN../BS VS...	UN:5-60V Uc:7V-70VDC IL:0.5-1A Iimp:1kA-2kA(total) In:5kA-10kA t _A :1ns Vs:1000Mbit/s Power:UN:230/400V Uc:255-380V In:3-5kA I _{max} :6-10kA

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Model list:

Base with GDT	BS SD 110	BS RK SC 24	BS LD 48/4M
Base without GDT	BS SD 180	BS RK SC 36	BS LD 60/4M
BS LC..Series	BS SD 250	BS RK SC 48	BS LD 180/4M
BS LC 5	BS SCD 24	BS RK SC 110	BS LDD 5/4M
BS LC 12	BS L CD..Series	BS RK SC 180	BS LDD 12/4M
BS LC 24	BS L CD(limp 2.5kA)	BS RK SD..Series	BS LDD 24/4M
BS LC 30	BS L CD(limp 1.5kA)	BS RK SD 5	BS LDD 48/4M
BS LC 36	BS L CD/5V	BS RK SD 12	BS ..HFD../4M Series
BS LC 48	BS L CD/12V	BS RK SD 24	BS SHFD 5/4M
BS LC 60	BS L CD/19V	BS RK SD 36	BS SHFD 12/4M
BS LC 110	BS L CD/24V	BS RK SD 48	BS SHFD 24/4M
BS LC 250	BS L CD/48V	BS RK SD 110	BS SHFD 48/4M
BS LC 280	BS L CD/60V	BS RK SD 180	BS HFD 5/4M
BS LC 500	BS L CD/110V	BS RK SD 5-M	BS HFD 12/4M
BS LD..Series	BS L CD F(24V)	BS RK SD 12-M	BS HFD 24/4M
BS LD 5	BS TC-ID..	BS RK SD 24-M	BS HFD 48/4M
BS LD 12	BS TC-ID 5	BS RK SD 48-M	BS SC 24-4M
BS LD 24	BS TC-ID 12	BS RK SD 110-M	BS LS CD 24/4M
BS LD 30	BS TC-ID 24	BS RK SD 48/0	BS LCD../4M Series
BS LD 36	BS SHFD..Series	BS RKW...Series	BS LCD 5/4M
BS LD 48	BS SHFD 5	BS RKW SHFD 5-2	BS LCD 12/4M
BS LD 60	BS SHFD 12	BS RKW SHFD 12-2	BS LCD 24/4M
BS LD 110	BS SHFD 24	BS RKW SHFD 24-2	BS LCD 48/4M
BS LD 250	BS SHFD 36	BS RK SHFD 5	BS LCD 60/4M
BS LD 280	BS SHFD 48	BS RKW SHFD 12	BS LCD 180/4M
BS LD 500	BS SHFD 60	BS RKW SHFD 24	BS RS485../4M Series
BS SC..Series	BS SHFD 110	BS RKW HFD 5	BS RS485 5/4M
BS SC 5	BS SHFD 180	BS RKW HFD 12	BS L B 4M
BS SC 12	BS HFD..Series	BS RKW HFD 24	BS SCY 110/4M
BS SC 15	BS HFD 5	BS RK C...Series	BS SCY 250/4M
BS SC 24	BS HFD 12	BS RK C 5	BS LC../2M Series
BS SC 30	BS HFD 24	BS RK C 12	BS LC 5/2M
BS SC 48	BS HFD 48	BS RK C 24	BS LC 12/2M
BS SC 60	BS HFD 60	BS RK C 48	BS LC 24/2M
BS SC 110	BS HFD 110	BS RK C 60	BS LC 48/2M
BS SC 180	BS HFD 180	BS LC../4M Series	BS LC 60/2M
BS SC 250	BS S..Series	BS LC 5/4M	BS LC 180/2M
BS SC 110/11	BS S 12	BS LC 12/4M	BS LD../2M Series
BS SD..Series	BS S 24	BS LC 24/4M	BS LD 5/2M
BS SD 5	BS S 48	BS LC 48/4M	BS LD 12/2M
BS SD 12	BS S 60	BS LC 60/4M	BS LD 24/2M

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BS SD 24	BS S 180	BS LD.../4M Series	BS LD 60/2M
BS SD 30	BS RK SC..Series	BS LD 5/4M	BS LD 180/2M
BS SD 48	BS RK SC 5	BS LD 12/4M	BS LDD 5/2M
BS SD 60	BS RK SC 12	BS LD 24/4M	BS LDD 24/2M
BS..HFD../2M Series	BS 4RK S 110	BS RK 48 RS-II	BS LSA 10G 110
BS SHFD 5/2M	BS 4RK S 180	BS RK 48 RS-ID	BS LSA 10G 110S
BS HFD 5/2M	BS RK 5...Series	BS RK 48 ST-II	BS LSA 1G 110
BS SHFD 24/2M	BS RK 5 TR-II	BS RK 48 ST-ID	BS TVSS...Series
BS HFD 24/2M	BS RK 5 TR-ID	BS RK 60...Series	BS TVSS 10/G48
BS 4RK SC...Series	BS RK 5 TR-DI	BS RK 60 ST-II	BS TVSS 10/G5
BS 4RK SC 5	BS RK 5 TR-DD	BS RK 60 ST-ID	BS TVSS 20/G48
BS 4RK SC 12	BS RK 5 TC-II	BS RK 60 ST-DI	BS TVSS 20/G5
BS 4RK SC 24	BS RK 5 TC-ID	BS RK 60 ST-DD	BS RJ45...(4P) Series
BS 4RK SC 48	BS RK 5 TC-DI	BS RK 60 ST-II F	BS RJ45 5V (4P)
BS 4RK SC 60	BS RK 5 TC-DD	BS RK 60 ST-ID F	BS RJ45 24V (4P)
BS 4RK SC 180	BS RK 5 RS-II	BS RK 60 ST-DI F	BS RJ45 48V (4P)
BS 4RK SD...Series	BS RK 5 RS-ID	BS RK 60 ST-DD F	BS RJ45G 5 (4P)
BS 4RK SD 5	BS RK 5 RS-II F	BS SCD 6A-38 DI	BS RJ45G 24 (4P)
BS 4RK SD 12	BS RK 12...Series	BS SCD 6A-38 DD	BS RJ45G 48 (4P)
BS 4RK SD 24	BS RK 12 ST-3	BS TTY...Series	BS NP 4TP...Series
BS 4RK SD 48	BS RK 12 ST-3 DI	BS TTY 5	BS NP 4TP 5V
BS 4RK SD 60	BS RK 12 ST-3-DD	BS TTY 12	BS NP 4TP 24V
BS 4RK SD 110	BS RK 24...Series	BS TTY 24	BS NP 4TP 48V
BS 4RK SD 180	BS RK 24 ST-II	BS TTY 32	BS NP 4TP G5
BS 4RK SCD...Series	BS RK 24 ST-ID	BS TTY 110	BS NP 4TP G24
BS 4RK SCD 5	BS RK 24 ST-DI	BS AD..Series	BS NP 4TP G48
BS 4RK SCD 12	BS RK 24 ST-DD	BS AD 24	BS NP 4TP E1000 5V
BS 4RK SCD 24	BS RK 24 ST-II F	BS AD 24 S	BS NP 4TP E1000 5V M
BS 4RK SCD 48	BS RK 24 ST-ID F	BS RS485...Series	BS NP 4TP 1X...Series
BS 4RK SCD 60	BS RK 24 ST-DI F	BS RS485 5	BS NP 4TP 1X 5V
BS 4RK SCD 110	BS RK 24 ST-DD F	BS ALD 36	BS NP 4TP 1X 24V
BS 4RK SDD...Series	BS RK 24 TR-II	BS ALD 60	BS NP 4TP 1X 48V
BS 4RK SDD 5	BS RK 24 TR-ID	BS LSC...Series	BS NP 4TP 1X E1000 5V
BS 4RK SDD 24	BS RK 24 TR-DI	BS LSA C5L	BS NP 4TP 1X E1000 12V
BS 4RK SDD 48	BS RK 24 TR-DD	BS LSA C12L	BS NP 4TP 1X E1000 24V
BS 4RK SHFD...Series	BS RK 24 ST-3	BS LSA C24L	BS NP 4TP 1X E1000 5V M
BS 4RK SHFD 5	BS RK 24 ST-3 DD	BS LSA C48L	BS NP 4TP 1X G5
BS 4RK SHFD 12	BS RK 24 ST-3 DI	BS LSA C60L	BS NP 4TP 1X G24
BS 4RK SHFD 24	BS RK 24 ST-II LT	BS LSA C110L	BS NP 4TP 1X G48
BS 4RK SHFD 48	BS RK 24 PA-II	BS LSA C5R	BS NP 4TP 2X...Series
BS 4RK HFD...Series	BS RK 24 PA-ID	BS LSA C12R	BS NP 4TP 2X 5V
BS 4RK HFD 5	BS RK 24 RS-II	BS LSA C24R	BS NP 4TP 2X 24V
BS 4RK HFD 12	BS RK 24 RS-ID	BS LSA D110R	BS NP 4TP 2X 48V
BS 4RK HFD 24	BS RK 24 TR-DI F	BS LSA D250R	BS NP 4TP 2X E1000 5V

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BS 4RK HFD 48	BS RK 32...Series	BS LSA D24R	BS NP 4TP 2X E1000 12V
BS 4RK S...Series	BS RK 32 TR-DD	BS LSA C110L S	BS NP 4TP 2X E1000 24V
BS 4RK S 5	BS RK 32 TR-DI	BS LSA X...Series	BS NP 4TP 2X E1000 5V M
BS 4RK S 12	BS RK 48...Series	BS LSA X C110	BS NP 4TP 2X G5
BS 4RK S 24	BS RK 48 ST-3	BS LSA X D250R	BS NP 4TP 2X G24
BS 4RK S 48	BS RK 48 ST-3 DI	BS LSA X C110S	BS NP 4TP 2X G48
BS 4RK S 60	BS RK 48 ST-3 DD	BS LSA X C280S	BS NP 4TP 3X...Series
BS NP 4TP 3X 5V	BS RJ45 NI(A)	BS GC N	BS V 2IN1/12V
BS NP 4TP 3X 24V	BS RJ45 NI(B)	BS BNC G	BS V 2IN1/48V
BS NP 4TP 3X 48V	BS POE...Series	BS G UHF	BS V 3IN1/24V
BS NP 4TP 3X G5	BS POE 5V	BS L4J N	BS V 3IN1/220V
BS NP 4TP 3X G24	BS POE 7.5V	BS L4JY N	BS V 3IN1/12V
BS NP 4TP 3X G48	BS POE 7.5V(A)	BS GC NS	BS V 3IN1/48V
BS NP 4TP 3X E1000 5V	BS POE 7.5V(B)	BS G TNC	BS VS 3IN1/24V(A)
BS NP 4TP 3X E1000 12V	BS POE 5V/16	BS G SMA	BS VS 3IN1/12V(A)
BS NP 4TP 3X E1000 24V	BS POE 48V(A)	BS N GC	BS VS 3IN1/48V(A)
BS NP 4TP 3X E1000 5V M	BS POE 5V-K(A)	BS N GC(F/F)	BS VS 3IN1/24V(B)
BS RJ45G 48(A)-15	BS POE 48V-K(A)	BS BNC GA	BS VS 3IN1/12V(B)
BS RJ45G 48(A)-8	BS MJ8 POE	BS G NG	BS VS 3IN1/48V(B)
BS NP 15	BS MJ8 5V	BS BNC GF	BS RJ45 V 2 IN 1 S(12V)
BS RJ11 110 3X	BS MJ8 24V	BS G NA	BS RJ45 V 2 IN 1/12V
BS BNC 5V/8	BS RJ45E WP	BS GH BNC	BS RJ45 V 2 IN 1/24V
BS 8BNC 5V	BS ELP...WP Series	BS GH N	BS RJ45 V 2 IN 1 S(24V)
BS 16BNC 5V	BS ELP 48 WP	BS L4 NA	BS RJ45 V 2 IN 1/48V
BS 24BNC 5V	BS LCD/24 WP	BS GF CTV	BS RJ45 V 2 IN 1 S(48V)
BS RJ45G...Series	BS TC TN/JP	BS GF CTV S	BS RJ45 V 2 IN 1/220V
BS RJ45G 5(A)	BS RMT...Series	BS L47/16 A	BS RJ45 V 2 IN 1 S(220V)
BS RJ45G 5(B)	BS RMT 24V(A)	BS L47/16 B	BS RJ45 V 2 IN 1/K
BS RJ45G 12(A)	BS RMT 24V(B)	BS G SMA(F/F)	BS RJ45 V 2 IN 1/DIN
BS RJ45G 12(B)	BS RMT 12V(A)	BS N GB	BS SD TC1
BS RJ45G 24(A)	BS RMT 12V(B)	BS RS..Series	E-3
BS RJ45G 24(B)	BS RJ11...Series	BS RS 9P	E-5
BS RJ45G 48(A)	BS RJ11 110(A)	BS RS 9PA	E-10
BS RJ45G 48(B)	BS RJ11 110(B)	BS RS 15P	E-3a
BS RJ45G 48(A1)	BS RJ11 110 D(A)	BS RS 25P	E-5a
BS RJ45G 48 D(A)	BS RJ11 111 D(B)	BS RS 37P	E-10a
BS RJ45G 48(E)	BS RJ11 110(A)+LED	BS RS 37P A	C-10
BS RJ45G 60(A)	BS RJ11 110(B)+LED	BS PI...Series	L-10
BS RJ45G 60(B)	BS RJ12 110(A)	BS PI SCD 24 M	T-1
BS RJ45G 48-90W(A)	BS RJ12 110(B)	BS PI SCD 35 M	T-2
BS RJ45...Series	BS BNC....Series	BS PI SCD 48 M	T-3
BS RJ45 5V(A)	BS CAB-V	BS PI SCD 24 M-2	T-4
BS RJ45 5V(B)	BS BNC 5V(AB)	BS PI SCD 35 M-2	R-10a
BS RJ45 5V M(A)	BS BNC 5V(A)	BS PI SCD 48 M-2	R-10b
BS RJ45 5V M(B)	BS BNC 5V(B)	BS PI SCD 24 M-S	PET-16

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BS RJ45 E1000 5V(A)	BS V BNC(A)	BS PI SCD 35 M-S	R-...series
BS RJ45 E1000 5V(B)	BS V BNC(B)	BS PI SCD 48 M-S	BS L4 7/16
BS RJ45 24V(A)	BS BNC 12V(A)	BS CLE RJ45G 48 WP	BS F 1.6/5.6
BS RJ45 24V(B)	BS CTV 24(A)	BS LC 24/4M-PG-IP67	CAMCAR Series
BS RJ45 24V-K(A)	BS CTV 24(B)	BS 3LP-IP67-...	DVR Series
BS RJ45 24V-K(B)	BS G...Series	BS 5LP-IP67-...	BS..Ex
BS RJ45 IN...Series	BS G BNC	BS V 2IN1/24V	BS PI SCD 230/24 M
BS RJ45 NI 48	BS G N	BS V 2IN1/220V	

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Description
1	Metal plate
2	Bucket
3	Label
4	Resistance
5	Shell

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Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium(Cd)	--	--	--	--	--
Lead(Pb)	--	--	--	--	--
Mercury(Hg)	--	--	--	--	--
Hexavalent Chromium (CrVI)	--	--	--	--	--
PBBs	--	--	--	--	--
PBDEs	--	--	--	--	--
Dibutyl Phthalate (DBP)	--	--	--	--	--
Butyl benzyl phthalate (BBP)	--	--	--	--	--
Di-(2-ethylhexyl) Phthalate (DEHP)	--	--	--	--	--
Diisobutyl phthalate (DIBP)	--	--	--	--	--

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Note:

1. mg/kg= ppm
2. N.D.= Not Detected(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5. When Cr (VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr (VI). Since Cr (VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr (VI). When Cr (VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr (VI) in the coating layer. Unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr (VI) results represent status of the sample at the time of testing.

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Test Report

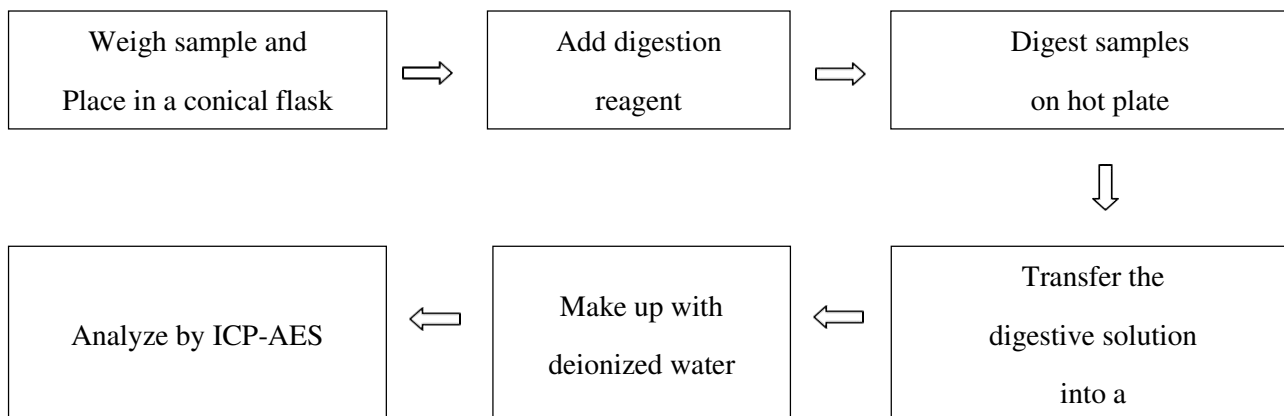
Report No: JAT23081702137RR-2

Date: 2023-08-21

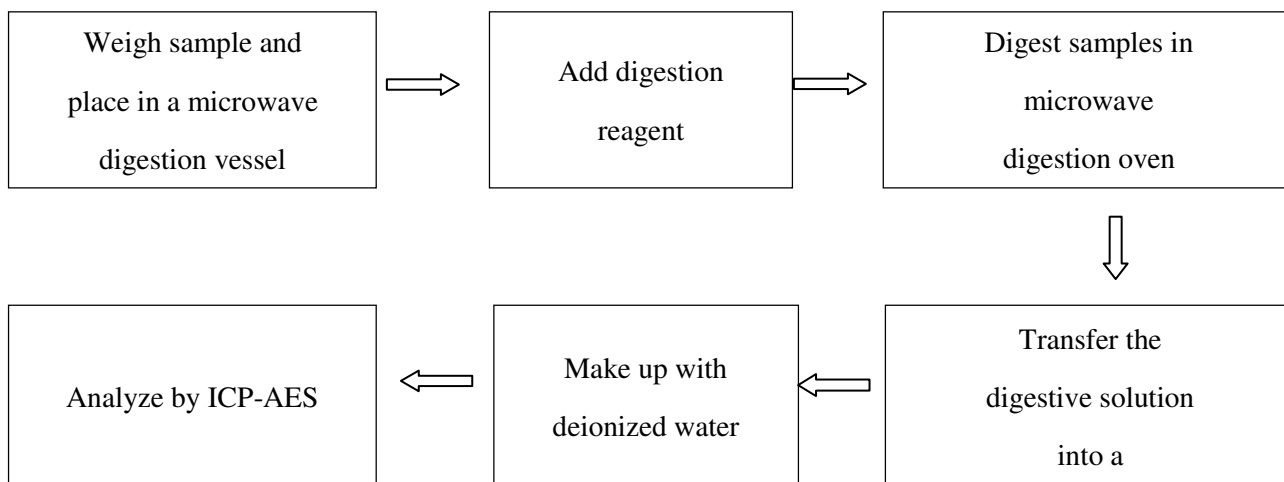
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Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



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Test Report

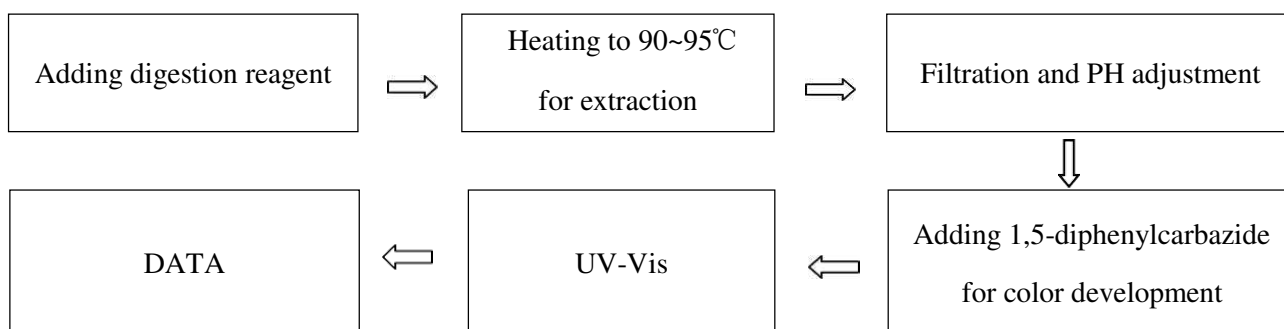
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Date: 2023-08-21

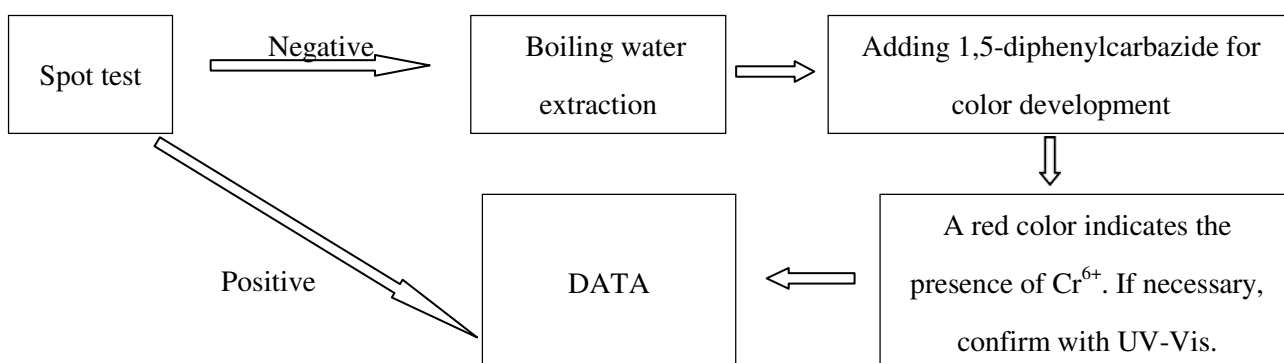
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3. Test for Chromium (VI) Content

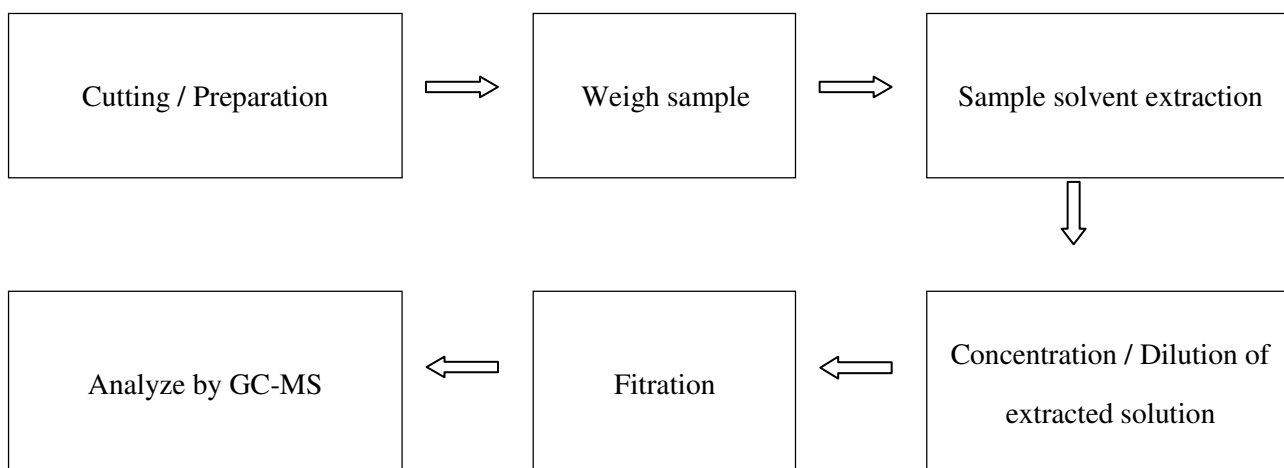
Nonmetal material



Metal material



4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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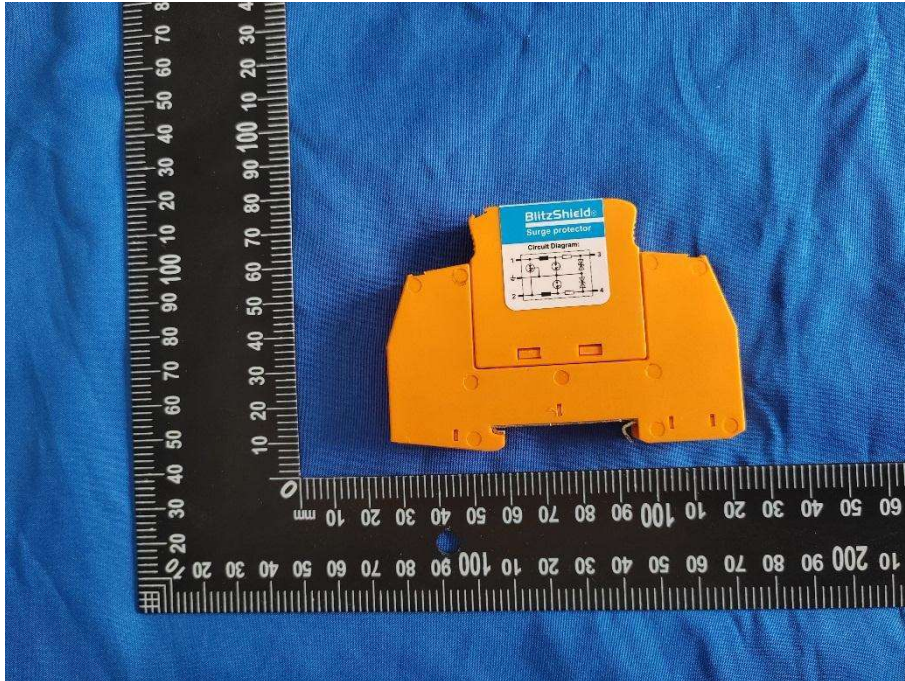
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Sample Photo:



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