

HZ-1400









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+Ê@ +j

12.1



2.2

2.2.1



2.2.3

:

“ ”

( ) “ ” “

”

2.2.4

1

2 “ ”

3

4

5 (

)

3.1 12.1

3.2 XP

3.3

3.4

3.5 20

3.6

3.7

4.1	400MHz
4.2	1 2
4.3	0.5m(100m/us)
4.4	≤20m
4.5	≤60km
4.6	≤ ± 0.5 ×L+1m L
4.7	220VAC ± 10% 50Hz/60Hz 10000mAH
4.8	-25 65 ≤90
4.9	428L × 350W × 230H
4.10	10kg





6.1

6.1.1

6.1.2

6.1.3 Q

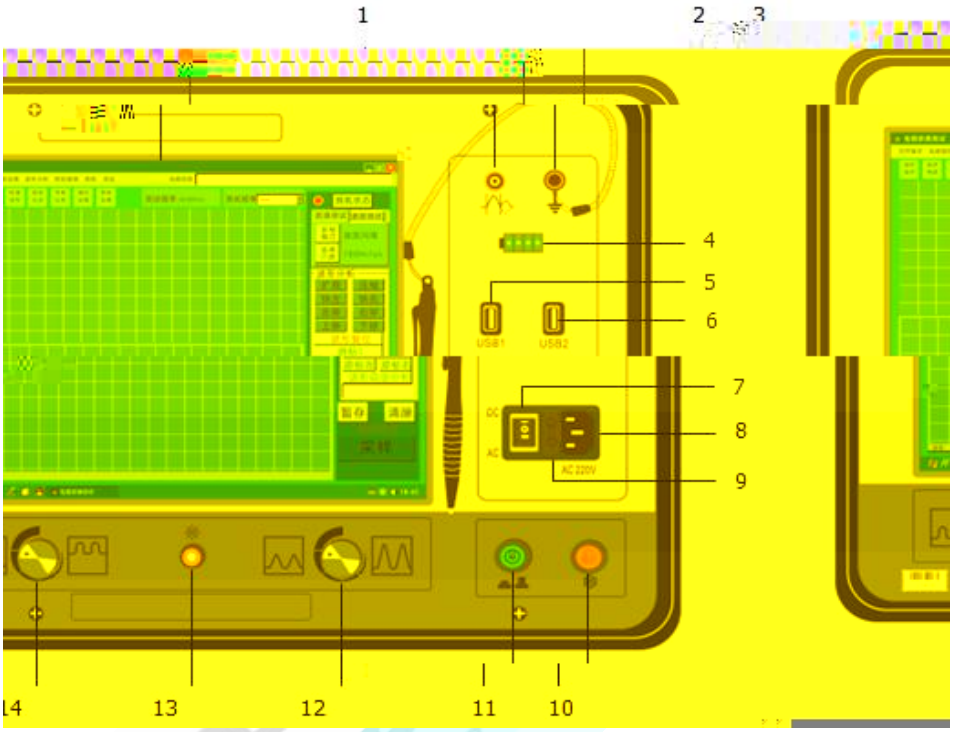
6.1.4 Q

6.1.5

6.1.6

	1		Q	1	
	1			1	
Q	1			1	

6.2



6.2.1 12.1

6.2.2

6.2.3

6.2.4 4

6.2.5 USB-1 USB

6.2.6 USB-2 USB

6.2.7 “ I ” AC220V

“ II ” “ 8 ” AC220V

“ 0 ”

6.2.8 220VAC

6.2.9 220VAC

6.2.10

6.2.11 /

6.2.12

6.2.13

6.2.14

6.3

6.3.1

3.1.1

Windows 512 10G

3.1.2

1>net framework4.0 dotNetFx40_Client_x86_x64.exe

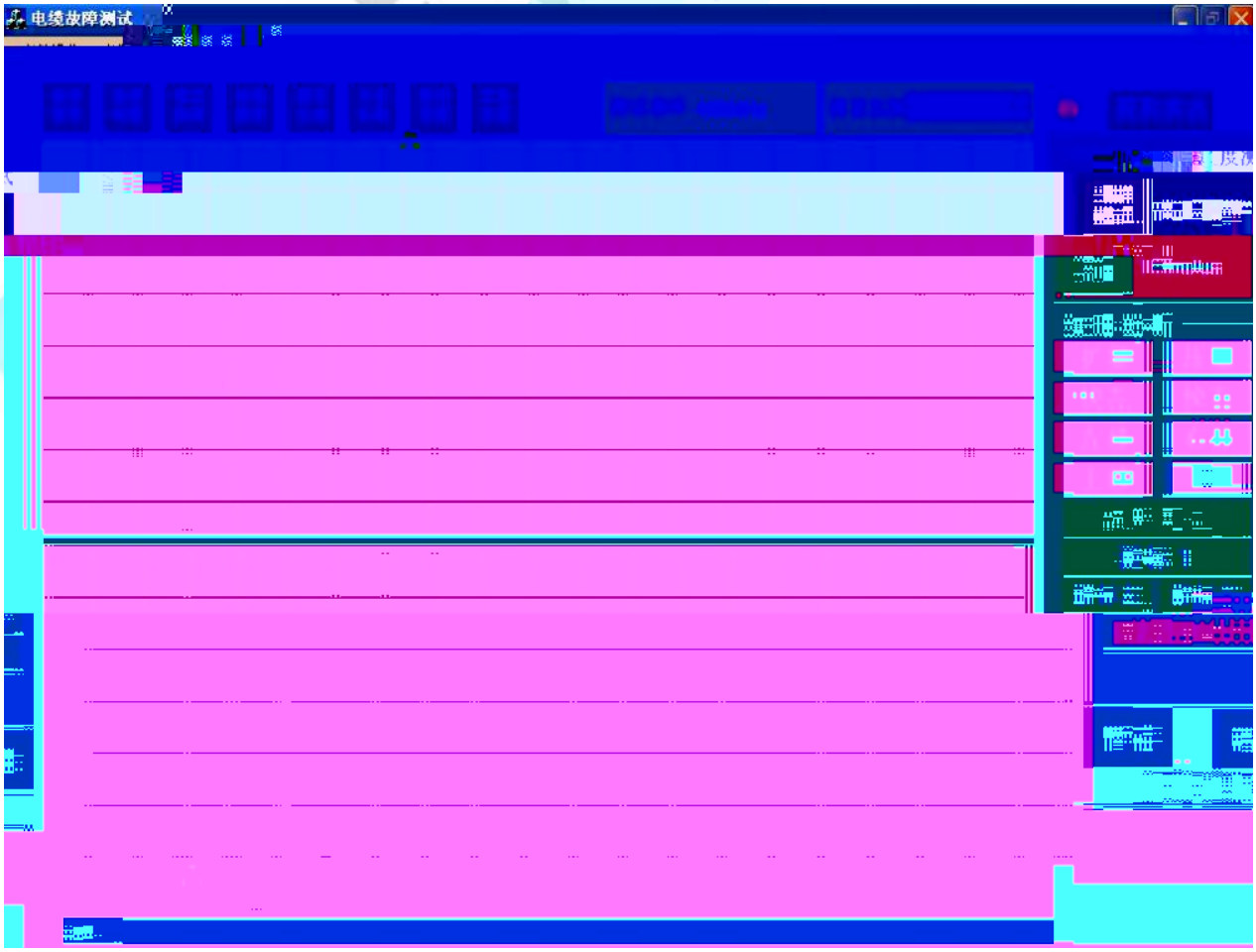
2>office 2003/2007

3>pdf

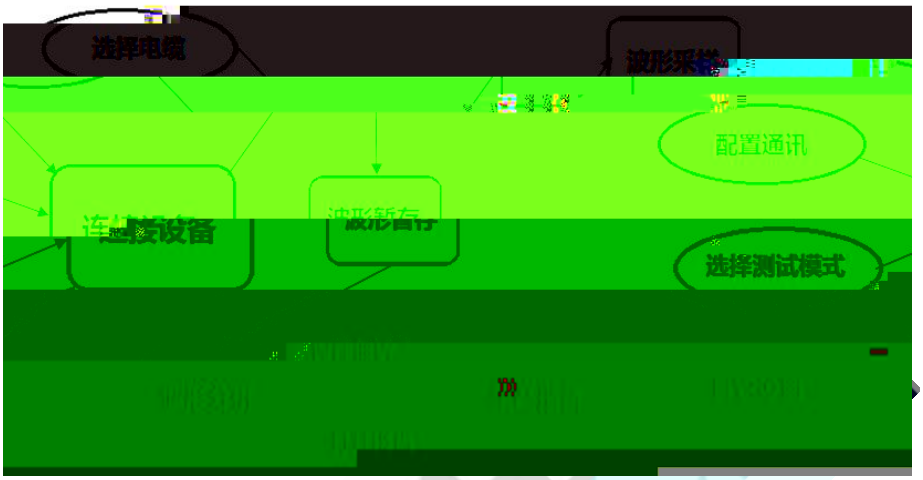
4>QQ

6.3.2

3.1 “ ”



6.4



6.5

6.5.1

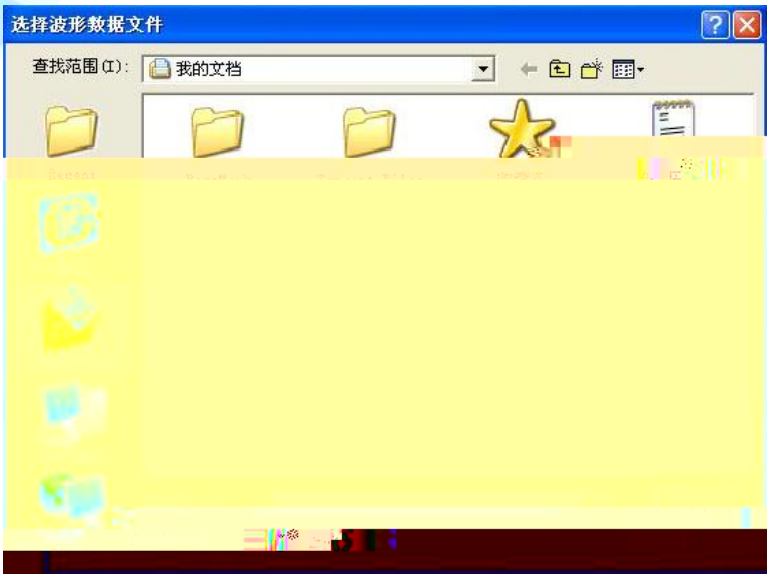
6.5.1.1

6.5.1.2

6.5.1.3

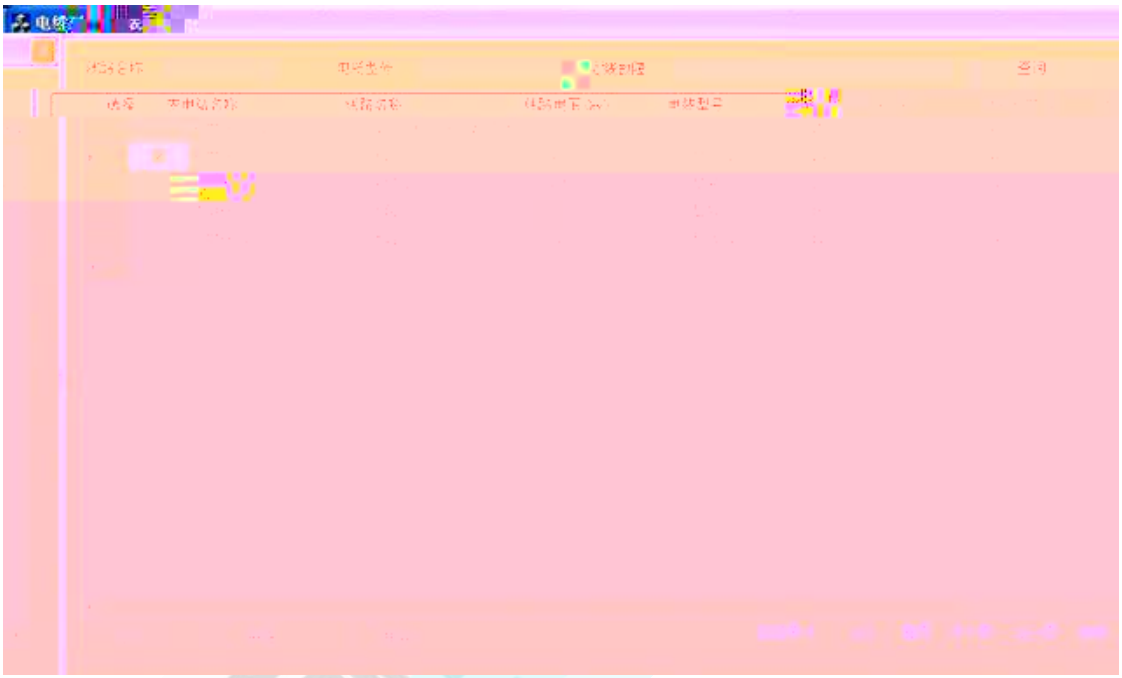
→ “

”



6.5.2.2

“ ” “ ”



6.5.2.3

“ ”

“ ”


电缆列表
线路名称:
查询
选择
支电站名称
电缆长度(m)
电缆接
支电站_1
支电站_2
支电站_3
支电站_4
200
1:无
5500
1:接头
455
1:接头
8888
2230
修改
新增
添加电缆信息
支电站名称:
支电站_1
线路名称:
线路_1
电缆型号:
型号_1
电缆介质:
156
m/us
线路电压:
55
kv
电缆长度:
5500
m
电缆接头:
接头1:
接头1
新增电缆接头
接头
接头2
电缆故障:
故障1:
故障1
新增电缆故障
故障
故障2
故障
保存
取消

6.5.2.4

“ ”



6.5.3

6.5.3.1

COM1



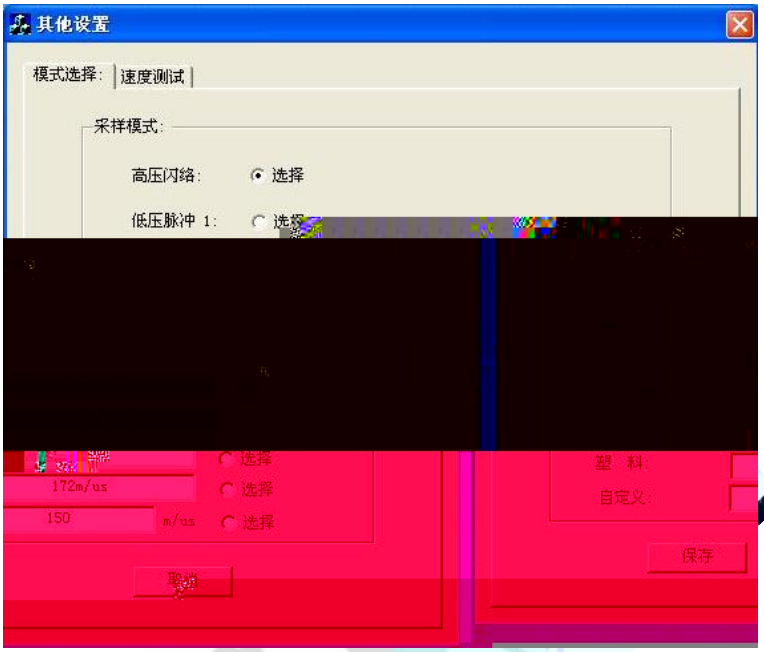
6.5.3.2

A

a

1 2

160,156,170,172m/us m/us

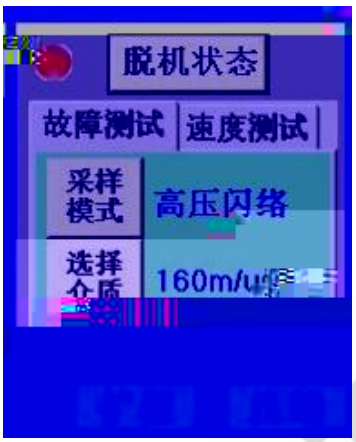

其他设置
模式选择：
速度测试
采样模式：
高压闪络：
选择
低压脉冲 1：
选择
172m/us
150
m/us
选择
选择
选择
塑 料：
自定义：
保存
取消

B

m


其他设置
模式选择：
速度测试
采样模式
低压脉冲 1：
选择
低压脉冲 2：
选择
测量长度
长度：
1000
m
保存
取消

C



6.5.3.3

1

2



6.5.3.4



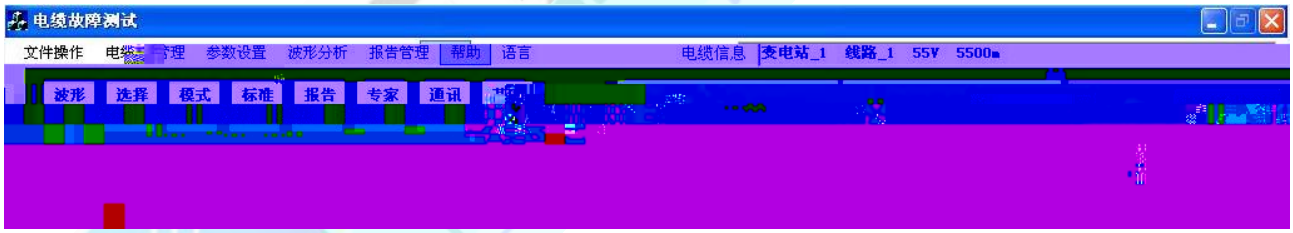
6.5.4

6.5.4.1

a “ ”



b. “ ”



6.5.4.2

6.5.3.1

6.5.4.3

6.5.3.4

6.5.4.4

6.5.3.2

6.5.4.5

“ ”

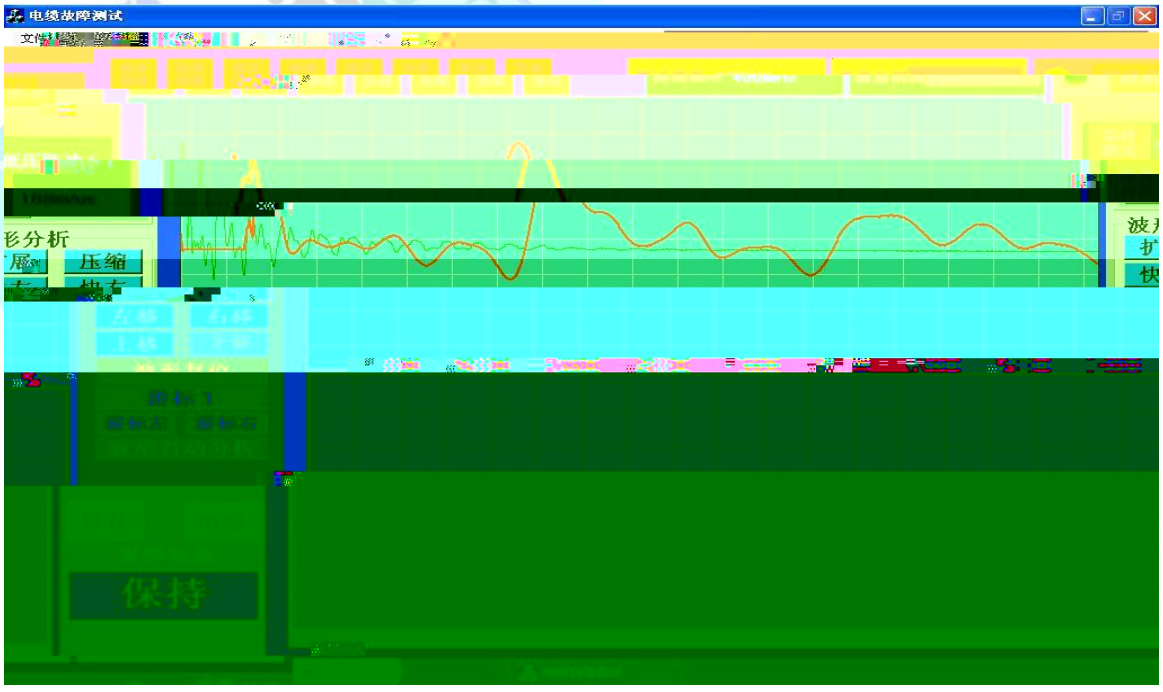
“ ” “ ”



6.5.4.6

“ ”

“ ” “ ”



6.5.4.7

a “ ” “ 1 ”

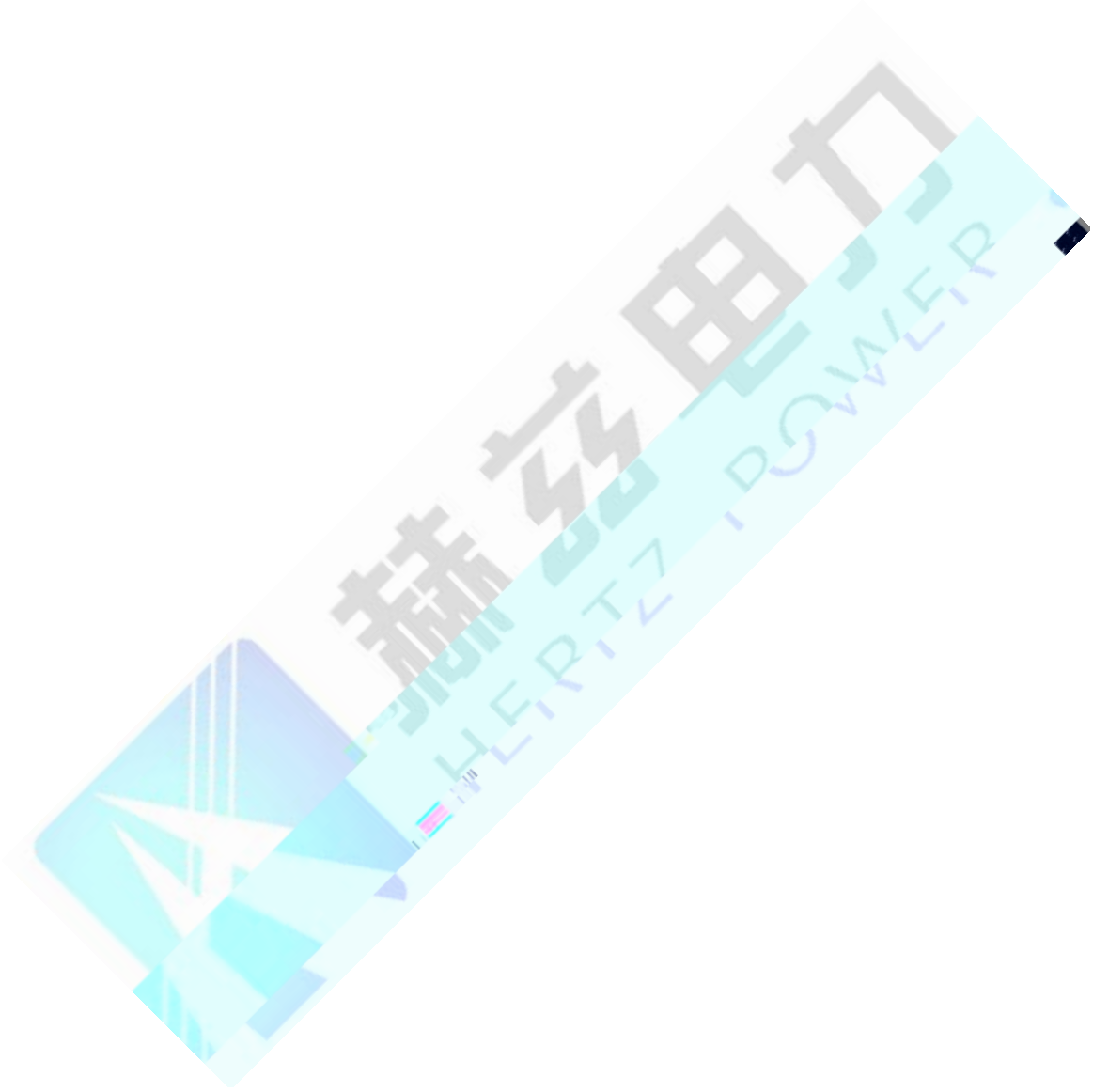
“ 2 ” “ 1 ” “ 2 ”

b “ 1 ” “ 2 ” “ 1 ”

“ 2 ”

6.5.4.8

a



l “ ”

6.5.4.11

a “ .txt ”

b

c

“ ” “ ”

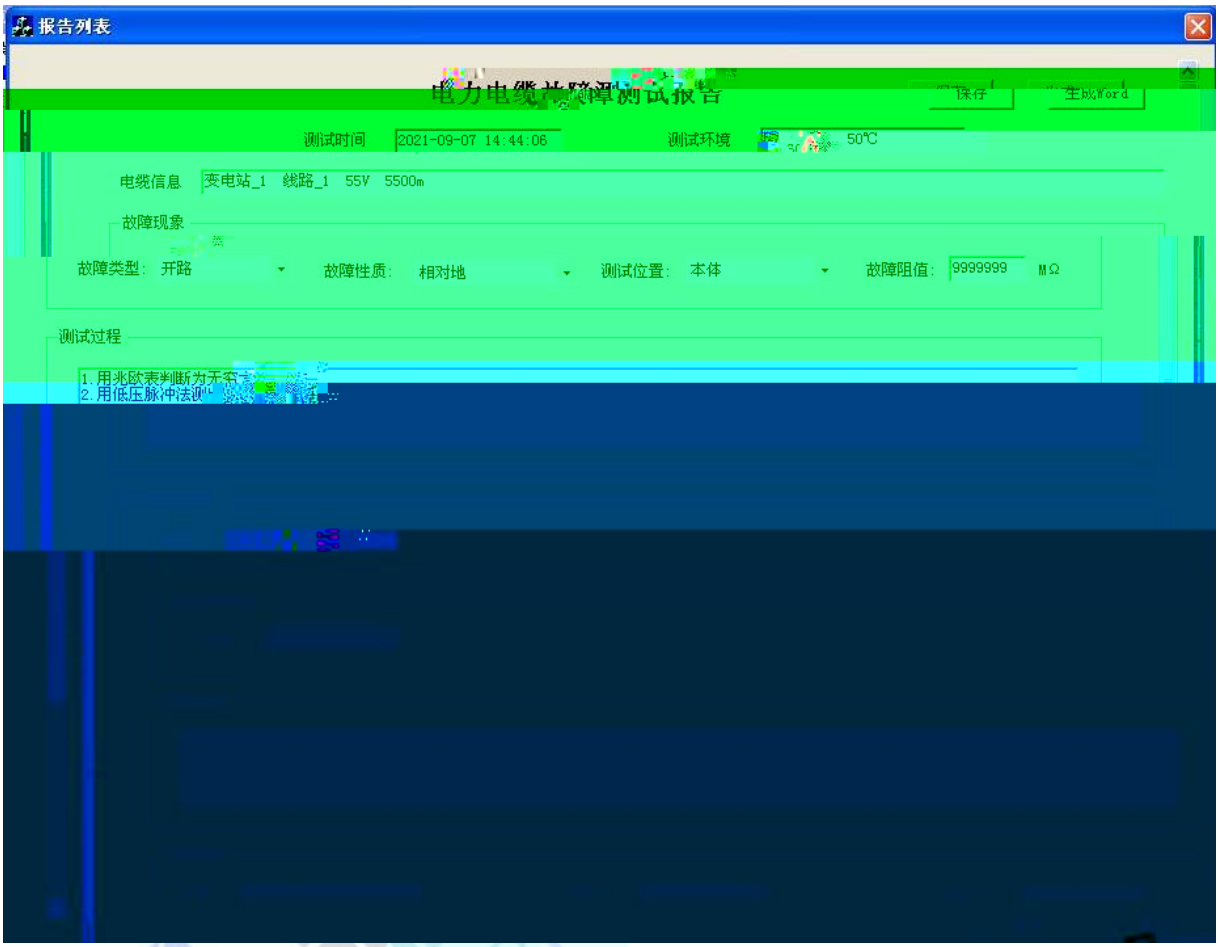


“ ”



6.5.4.12

“ ”



1.

word

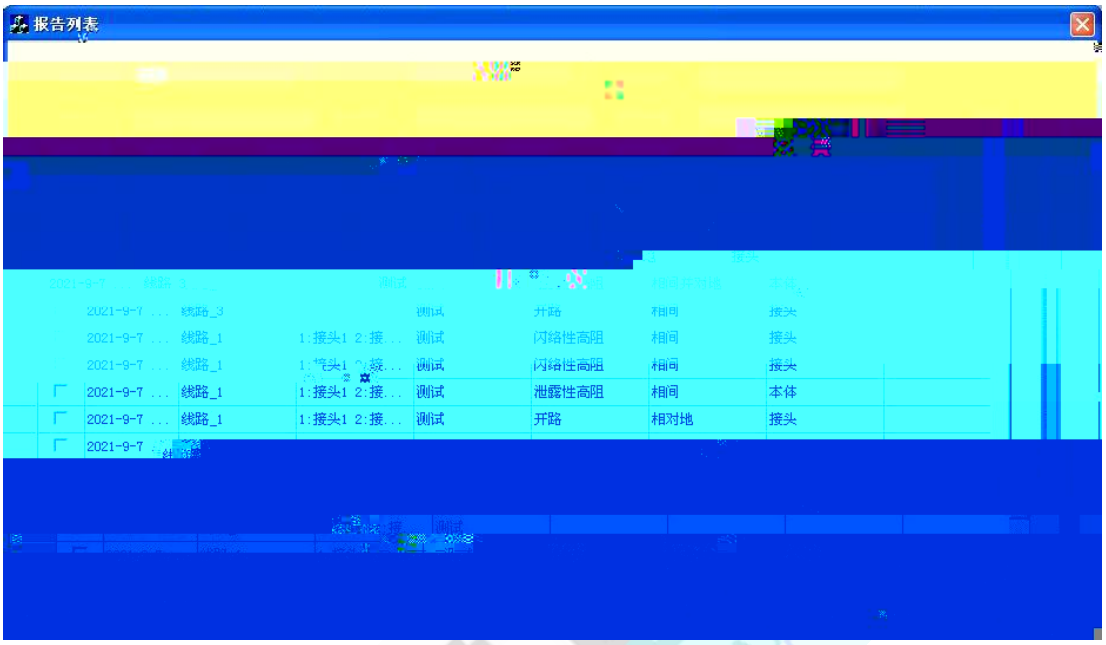
2.

6.5.5

6.5.5.1

15 “ ”

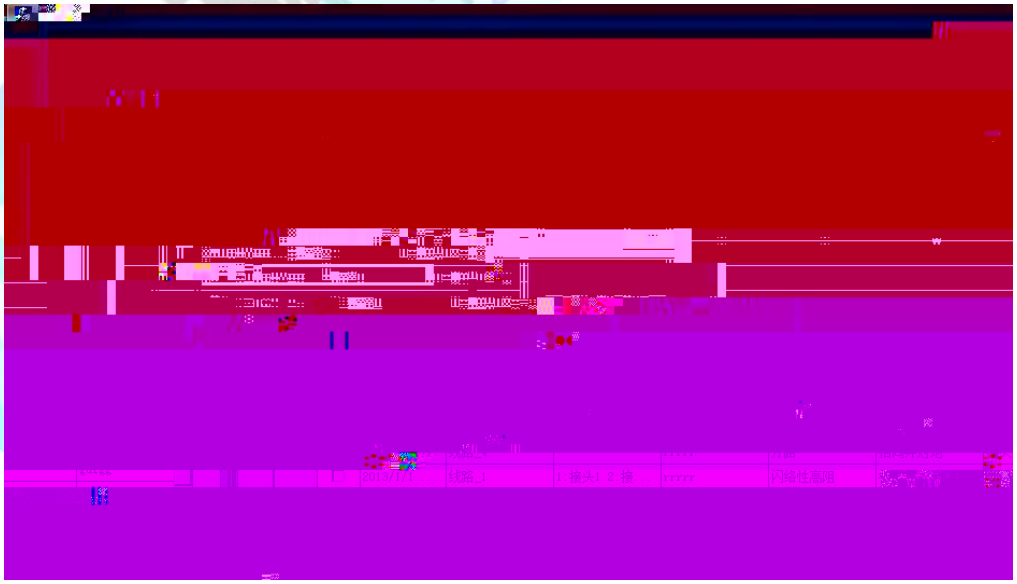
“ ” “ ” “ ”


报告列表
2021-9-7 ... 线路_3 测试 开路 相同 接头
2021-9-7 ... 线路_1 1:接头1 2:接... 测试 闪络性高阻 相同 接头
2021-9-7 ... 线路_1 1:接头1 2:接... 测试 闪络性高阻 相同 接头
2021-9-7 ... 线路_1 1:接头1 2:接... 测试 泄露性高阻 相同 本体
2021-9-7 ... 线路_1 1:接头1 2:接... 测试 开路 相对地 接头
2021-9-7 ...

6.5.5.2

6.5.5.3

a



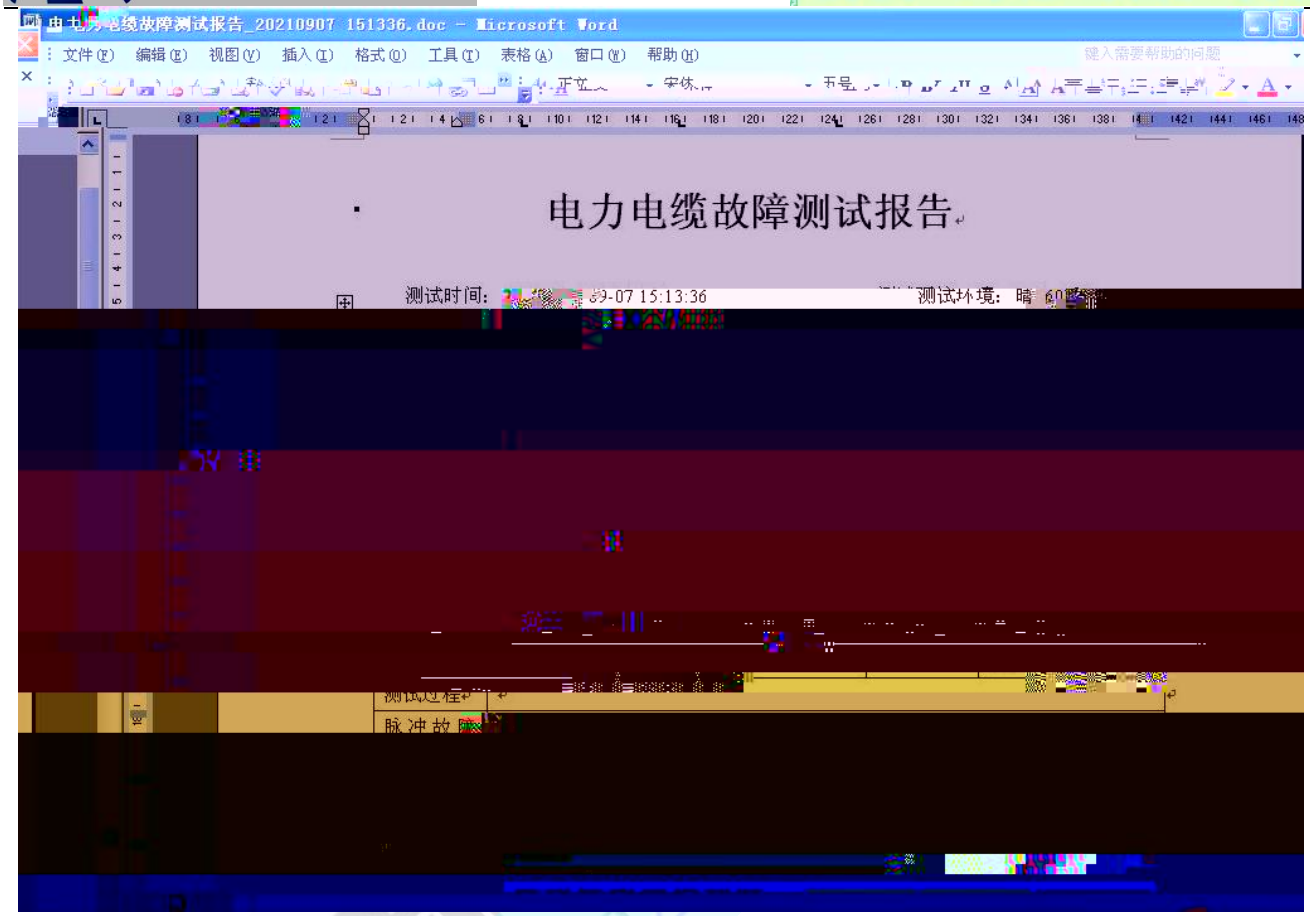
b “ ”

“ ”


报告列表
测试时间：
2021-09-07
--
2021-09-07
线路名称：

c “ ” word


报告列表
故障现象
故障性质：
相对地
测试位置：
本体
测试总结
1. 用兆欧表判断为无穷大
2. 用低压脉冲法测出760米开路
脉冲故障波形
波形：
闪络故障波形
波形：
故障分析
测试设备
主机：



6.5.6

6.5.7

6.5.8

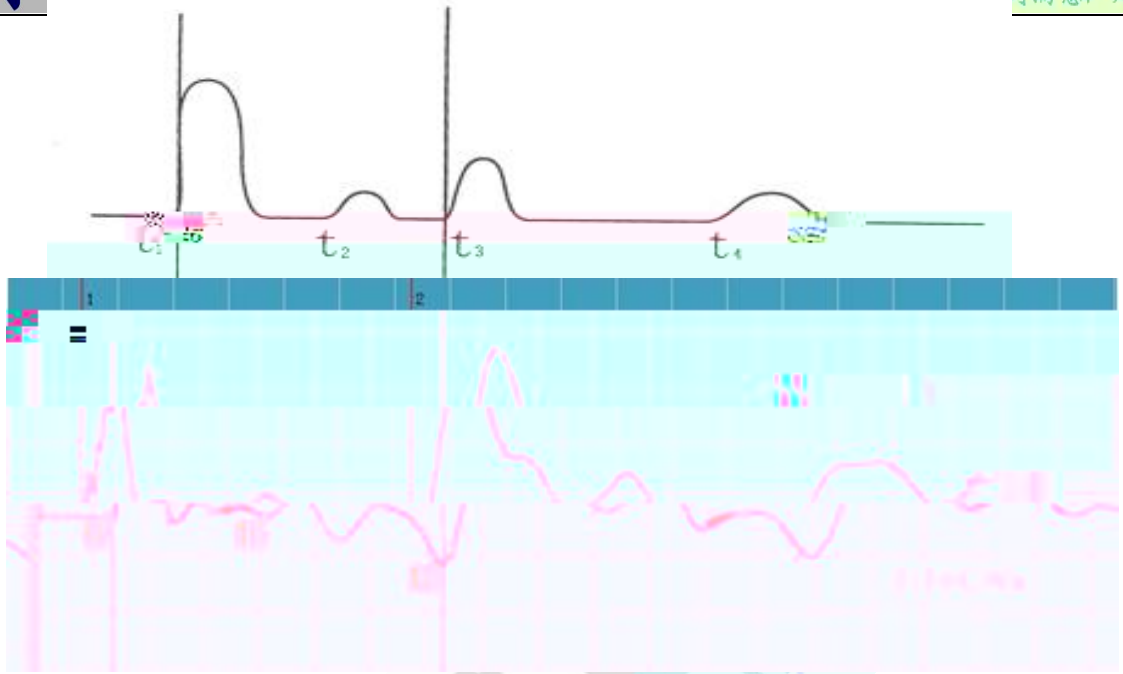
“ ”

6.5.9

6.5.10

6.6

6.6.1



t1 ( ) t2

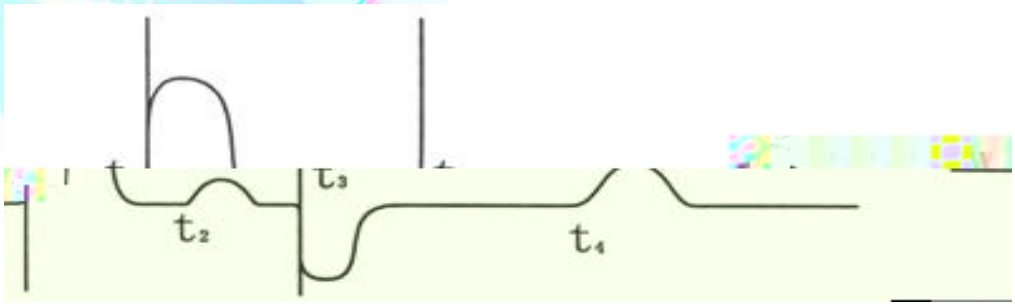
( ) t3

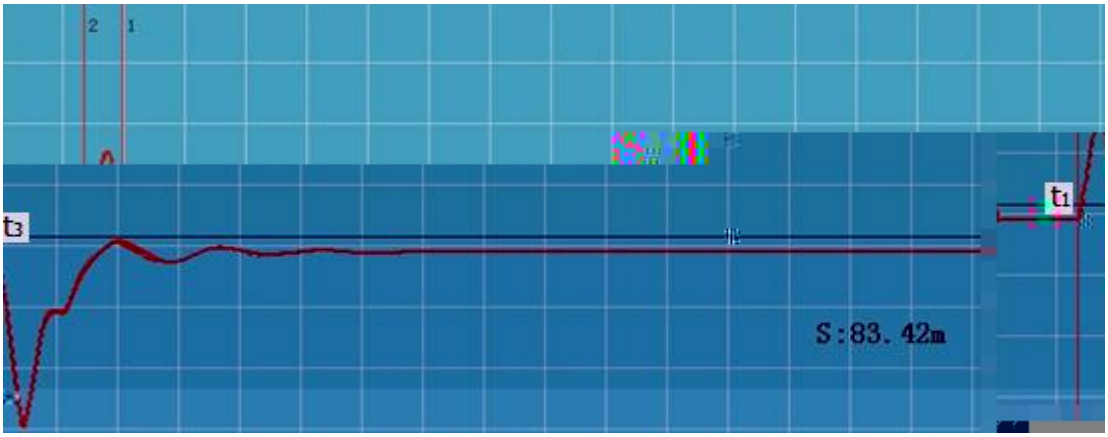
( ) t4

t4 t3

S=

6.6.2



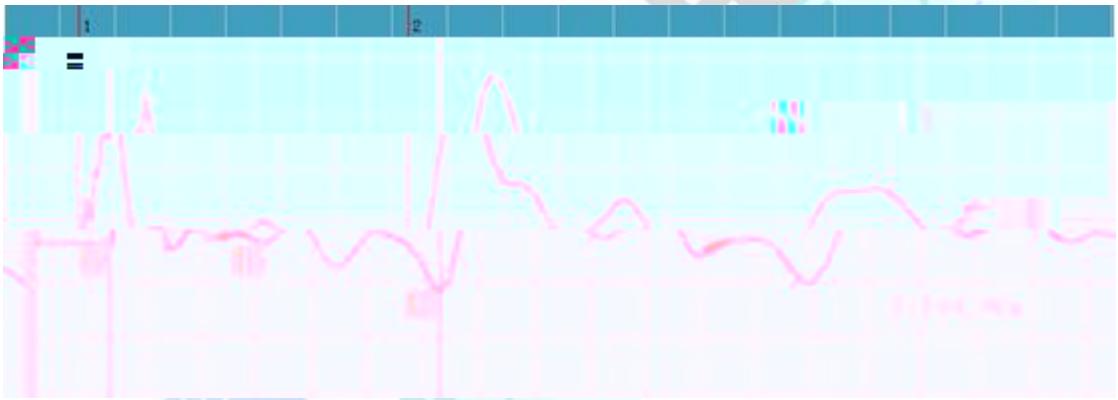


t1 ( ) t2

t3

( ) t4

6.6.3



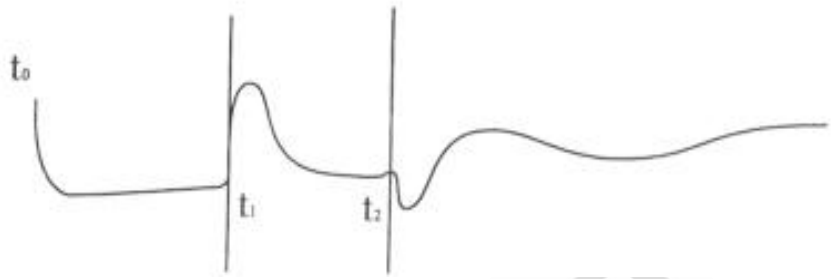
t_1 ( ) t_2

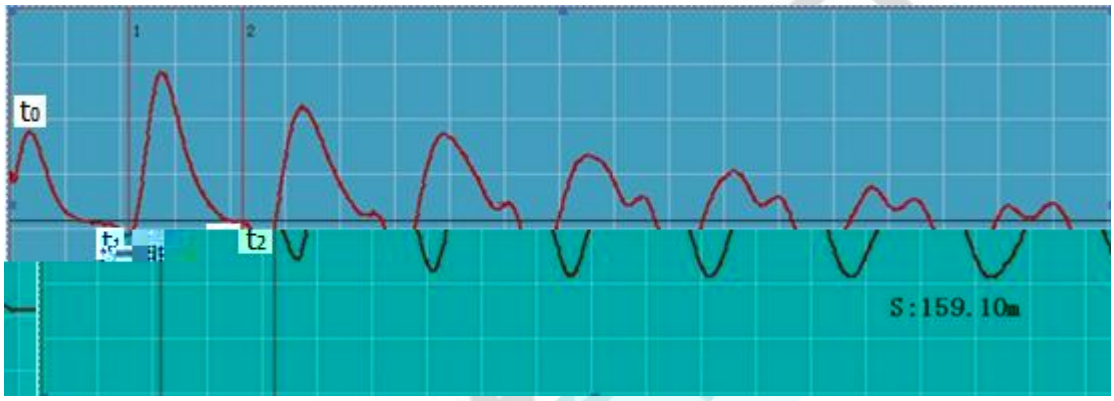
t_3 ( )

( ) t_4 ( )

t_4 t_3

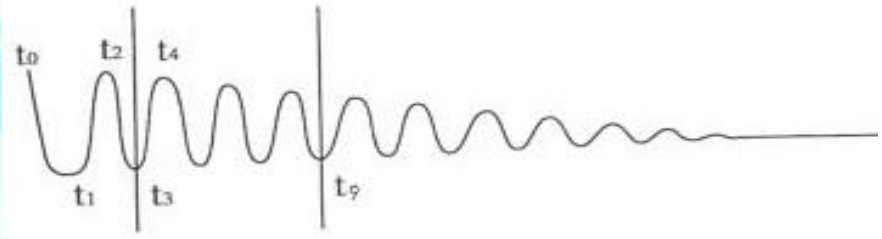
6.6.5





t0 t1 t2

6.6.6



t0

t_3 t_9

S t_3 t_9 n(n=6)(

)

7.2.2 “ -

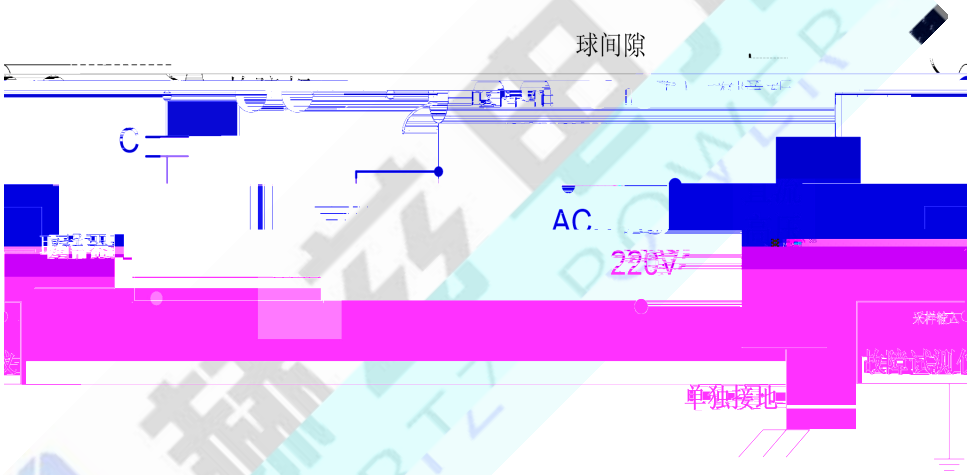
1 -172m/us ”

“

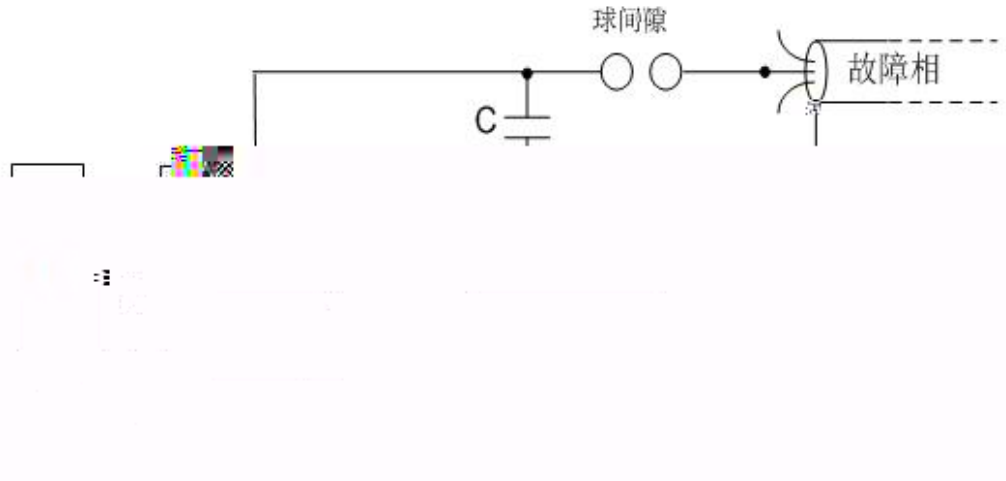
” 6 -

7.3

7.3.1



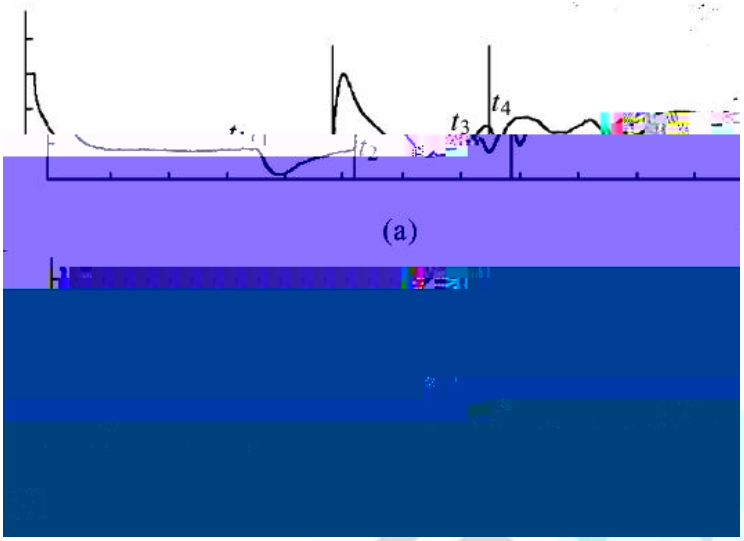
+ + +



+ + + +







1

2

2005 8 29

10kV

2500V 56MΩ

2320m 2300m

2 m" Ɒ

15kV “

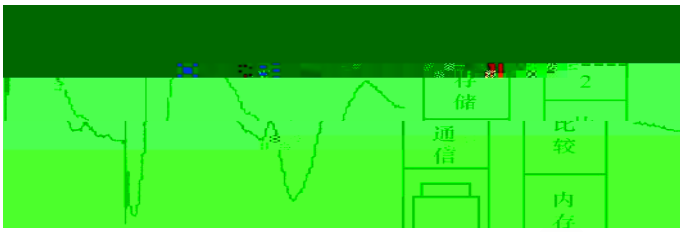
”

25kV

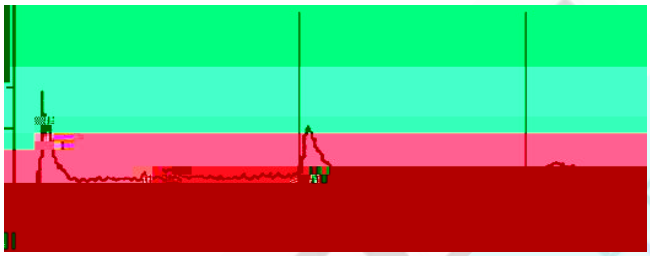
2 a v t2

+e t3 t4

a



b



c

a 25kV b 25kV c 25kV

2

3

2001 12 30

10kV

2500V 15MΩ

430m 423m

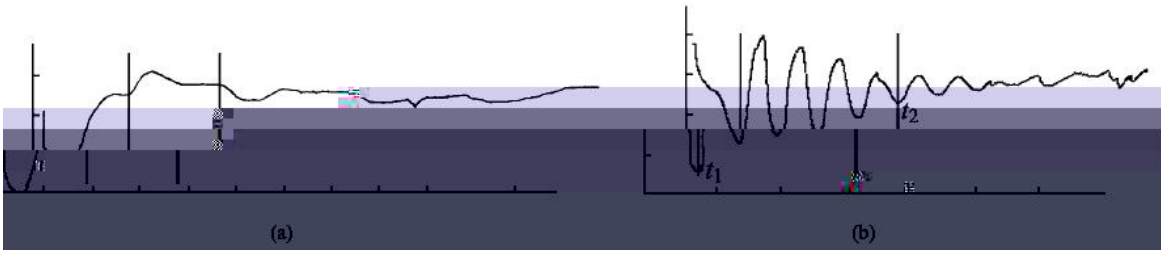
3

CVF 12kV 3 a

25kV 3 b

t1 t2 70m

8.7m



3

4

1997 11 3

10kV

2500V A 28MΩ

1330m 1325m

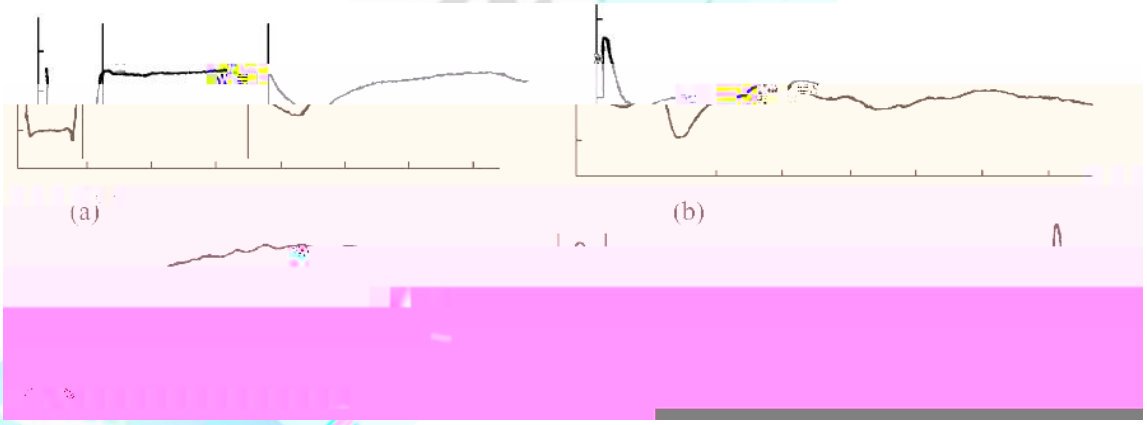
4

1325m 4 a

12kV 4 b

20kV 4 c

4 d 112m



a b 12kV

C 20kV D

4

5

2005 6 12

10kV

1000V 25MΩ

734m 730m

5

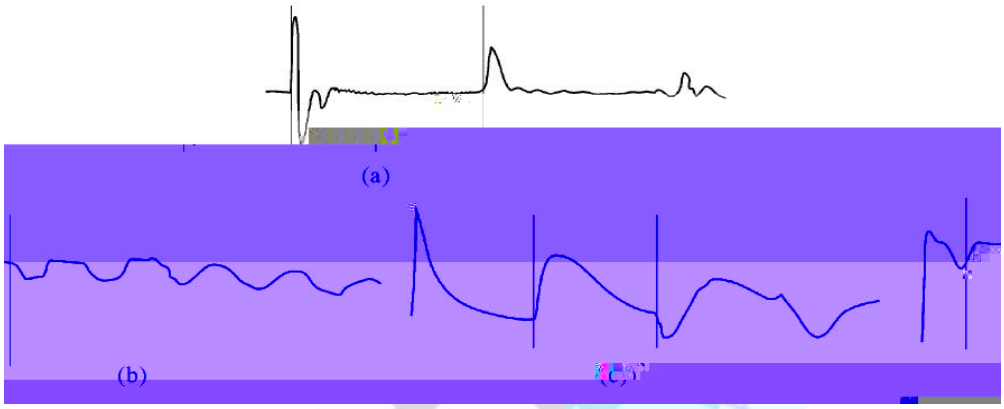
5 a 730m

12kV

5 b

18kV

5 c 365m



a b 12kV C 18kV

5

6

2003 2 13

10kV

2500V 85MΩ

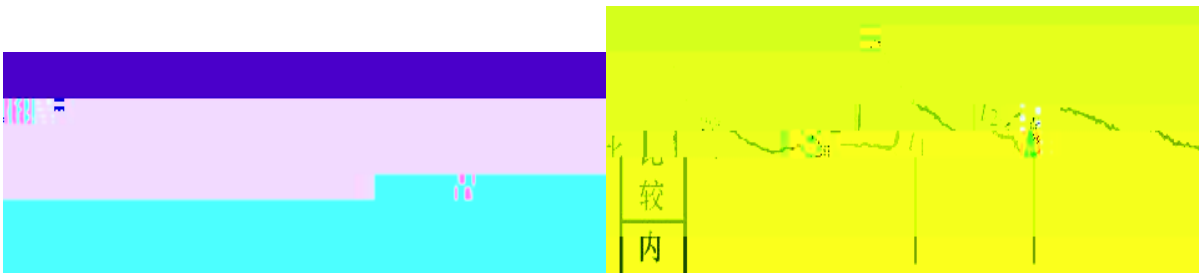
800m 790m

6

20kV 6 a

25kV 6 b

t1 t2 660m



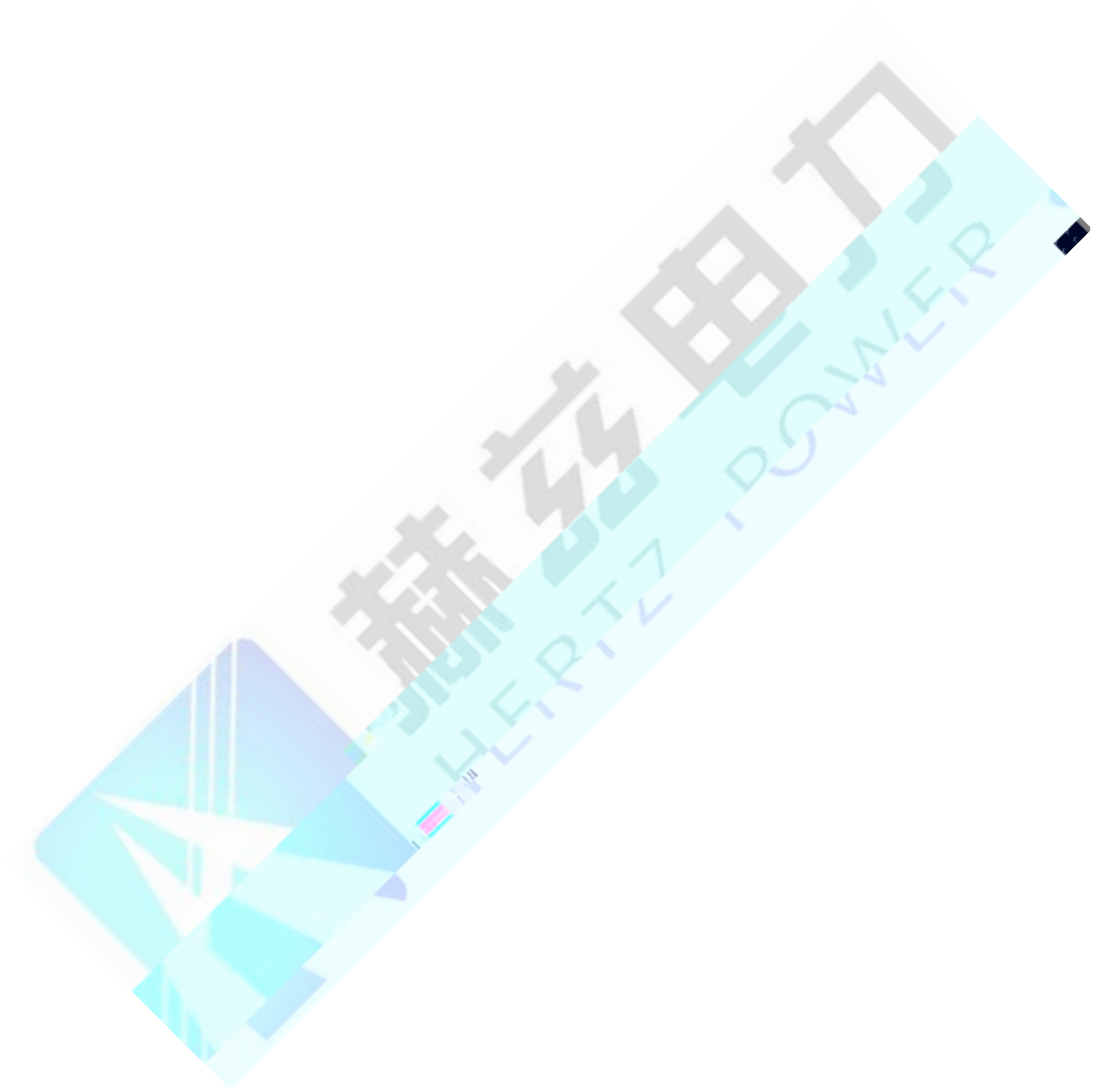
a b



8

A 8 a t0 t1

930m t0 t2 /1



10

19

10kV

5000V 65MΩ

m

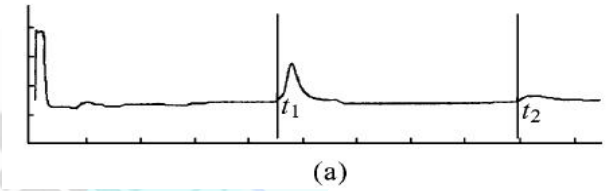
400m 380m

m 10

380m 10 a

21kV 10 b

271m 10 c 265m



(a)



a b 21kV

c 21kV



0 10 3

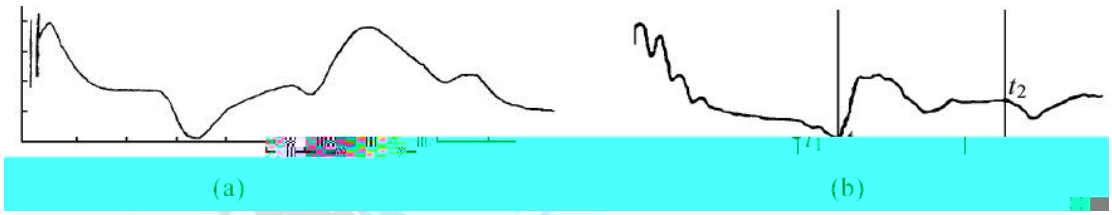
465m 450m

13

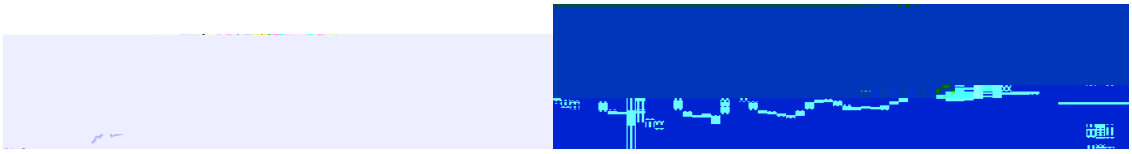
CVF 20kV 13 a

30kV 13 b 392m

50m



a CVF 20kV b CVF -¥F ¡



(a) (b)

a 25kV b 25kV

14

15

2003 12 22

10kV

2500V 250MΩ

1550m 1535m

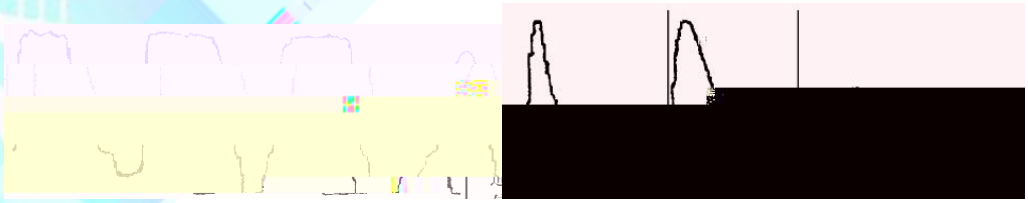
ZVGF

15

ZVGF 20kV

15 a

15 b 768m



a b

a 20kV b

15

16

1998 10 11

10kV

2500V 45MΩ

850m 843m

16

16 a

16 b 729m



a CVF b CVF

16

17

1997 8 13

10kV

2500V 15MΩ

650m 648m

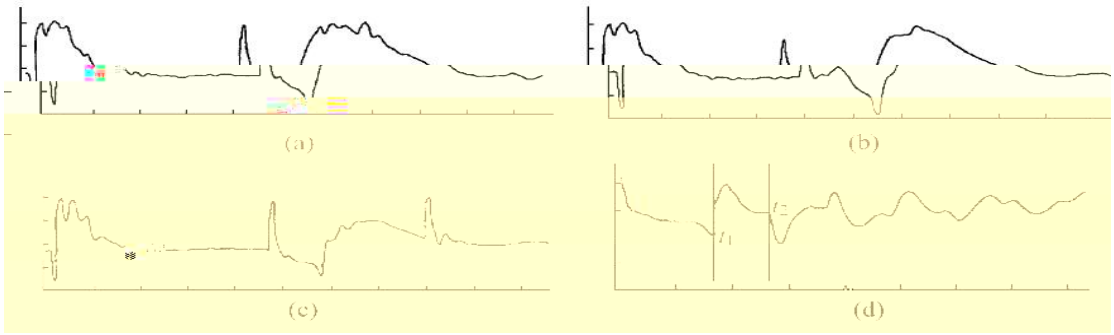
17

30kV

17 a b c

15kV 17 d

620m



a b c 30kV d 15kV

17

18

03 0 3

2001 3 26

10kV

2500V 55MΩ 1

1225m

18

18

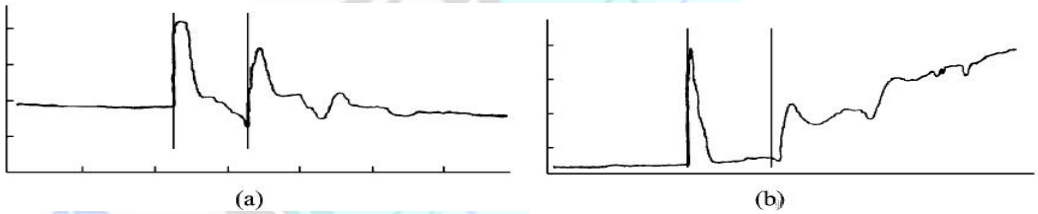
55kV

18 a 1225m

18 b 1200m

1200m

20kV

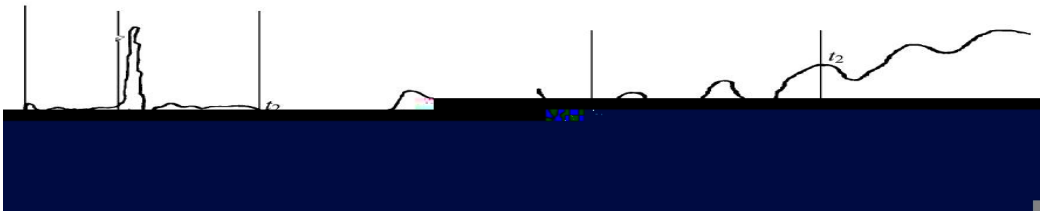


a b

18

19

2003 4 3



a b 3kV

19

20

2001 12 7

10kV

2500V 400MΩ

1560m 1550m

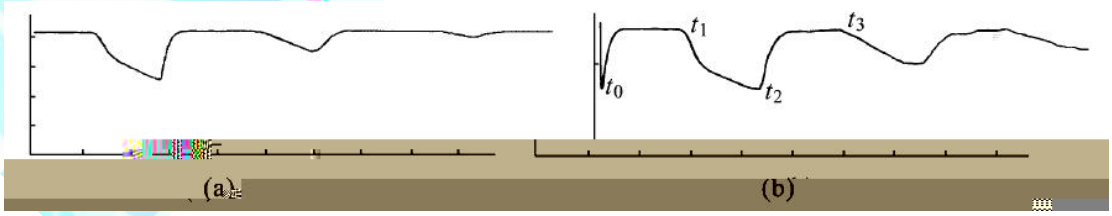
20

ZVF 23kV

20 a

32kV 20 b

t0 t1 560m t1 t0 t2 t1 t3 t2



a 23kV b 32kV

20

21

1999 11 3

10kV

2500V 18MΩ

1200m 1187m



24 m" Î Ê

24

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S

Ê ì "m Ì Ê

Ê ì "mV00ES

2500V 120MΩ

2310m 2300m

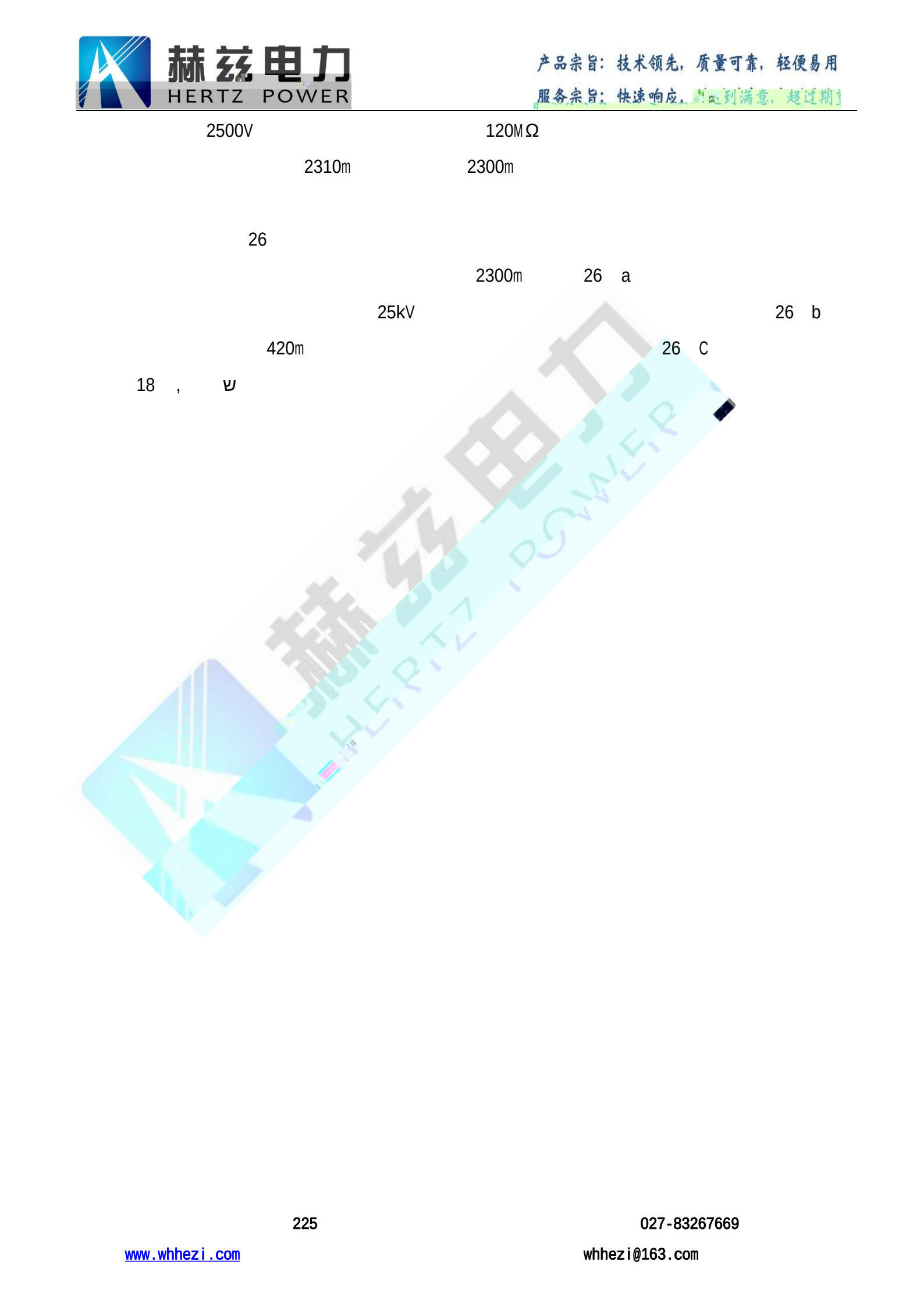
26

2300m 26 a

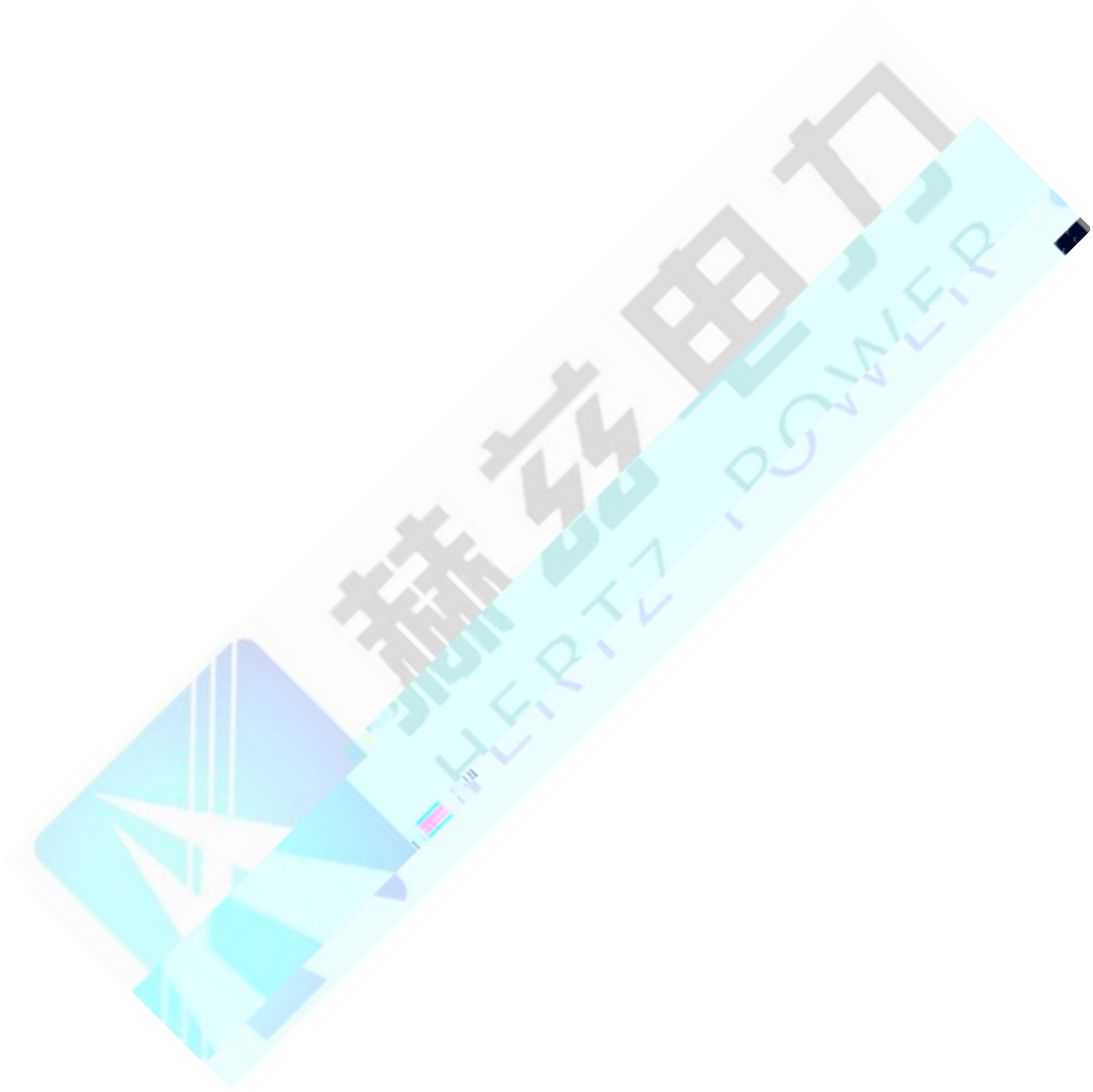
25kV 26 b

420m 26 C

18 , ש



25kV 27 c 1350m



2.1

2.1.1

a)

b)

c)

d) ÐÆE Ð ñb@ñ8 P 0ÁE,pF‘ëô_"q9• 0



5

6 “ ” AC 220V “0 ”

7 220VAC

8 220VAC

9

10

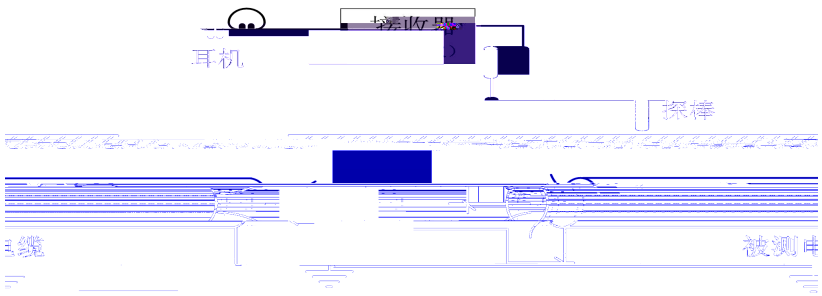
2.2

3.1

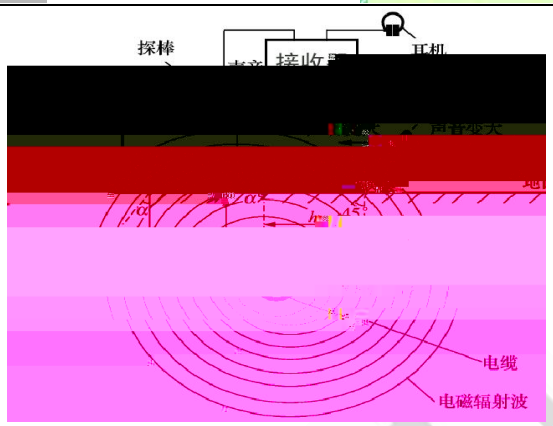
3.1.1

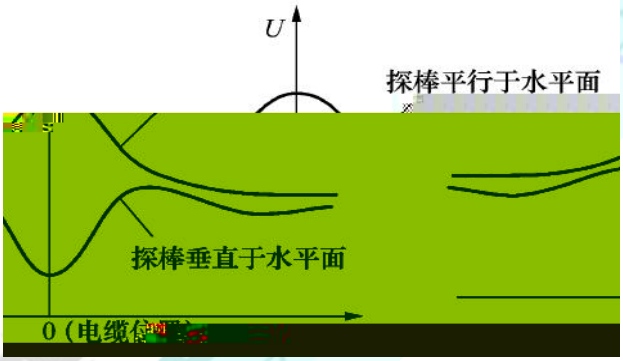
a)

b) “ ” “ ”






探棒
电缆
电磁辐射波


U
探棒平行于水平面
探棒垂直于水平面
0（电缆位置）

1

2

3

4 2μF（1±10 ）/35kV

5 0.006 1kHz

6 RC 7500MΩ·uF

7 1.1-1.5Un·2s 2Un·2s

8 -25-40 1000m

“

” “ ”

Ê 2