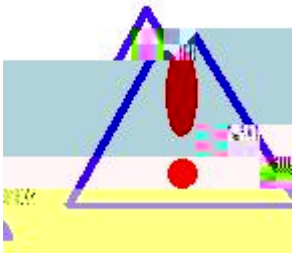
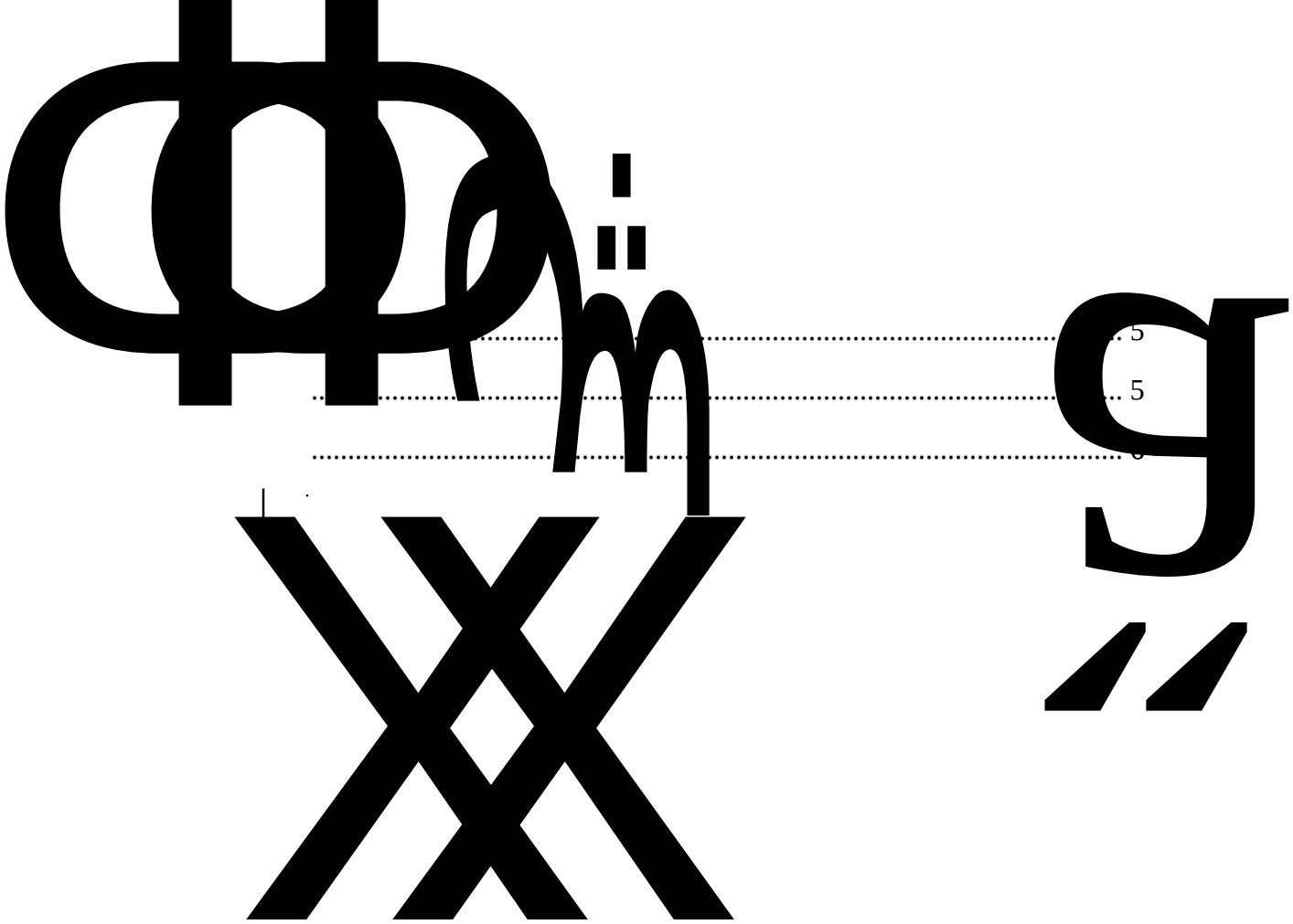


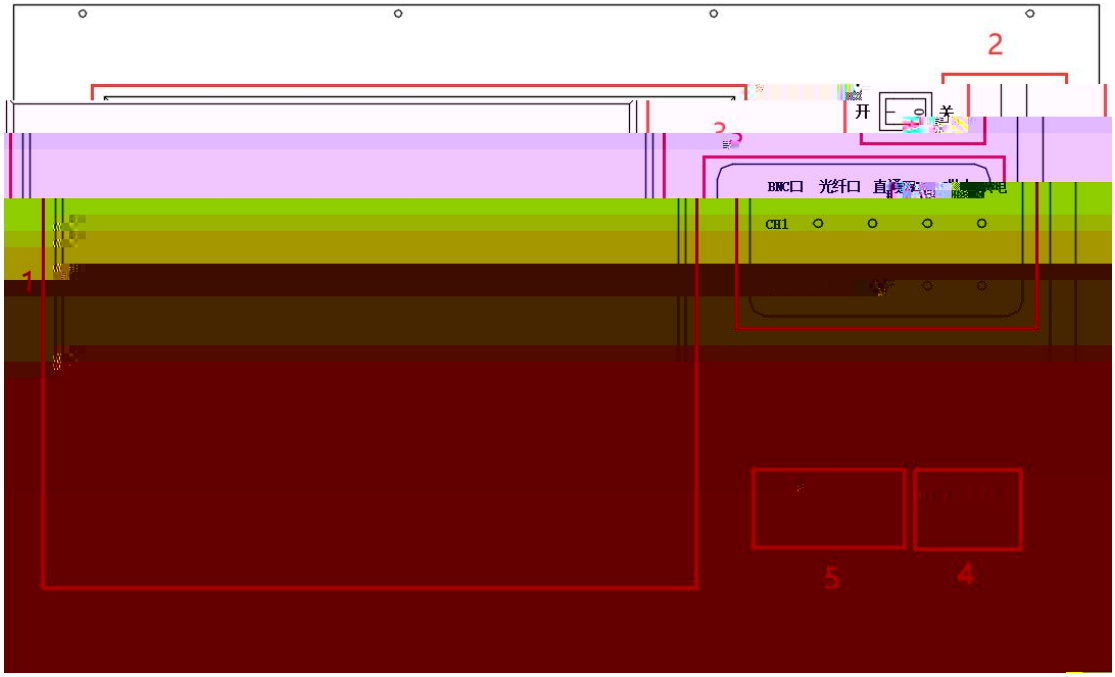


2 10M 12bit -40dB -20dB 0dB 20dB 40dB 60dB 6 3dB 10kHz 1MHz 10kHz 1MHz 10kHz 20kHz 40kHz 80kHz 100kHz 200kHz 300kHz 400kHz
10% 0.1pC~100,000p<

	128GB
	Windows Xp
	-10 45 ≤95%
	× × 474mm × 288mm × 370mm
	15.8kg

4.1

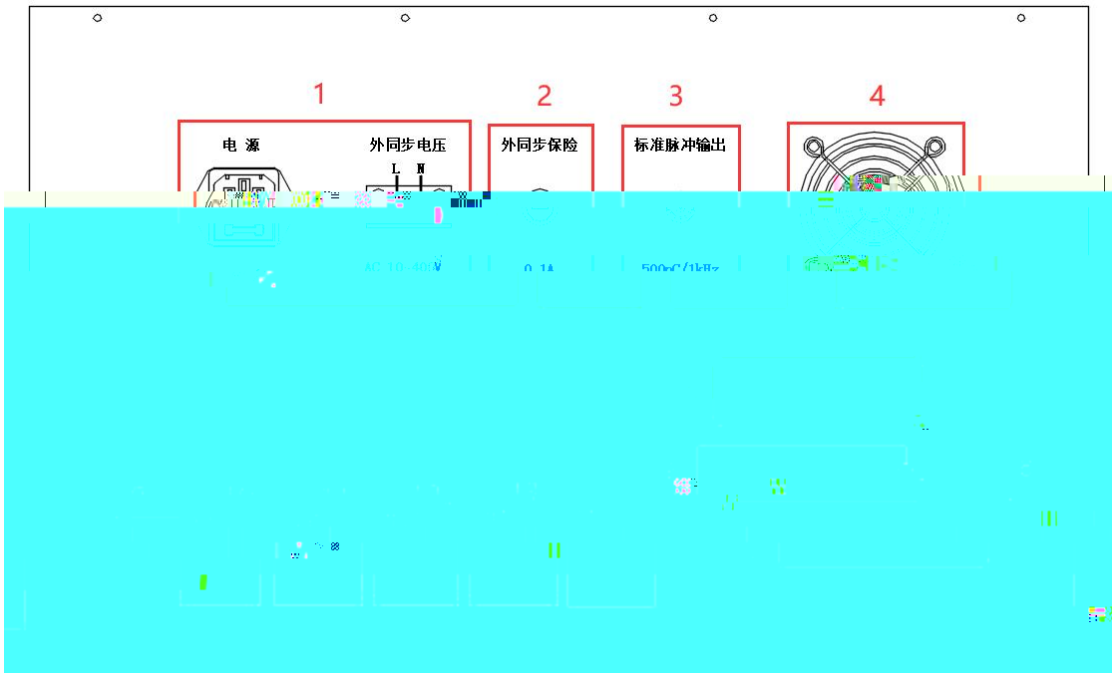
4.1.1



4.1

1		
2		
3	2	
4		
5	USB	USB

4.1.2

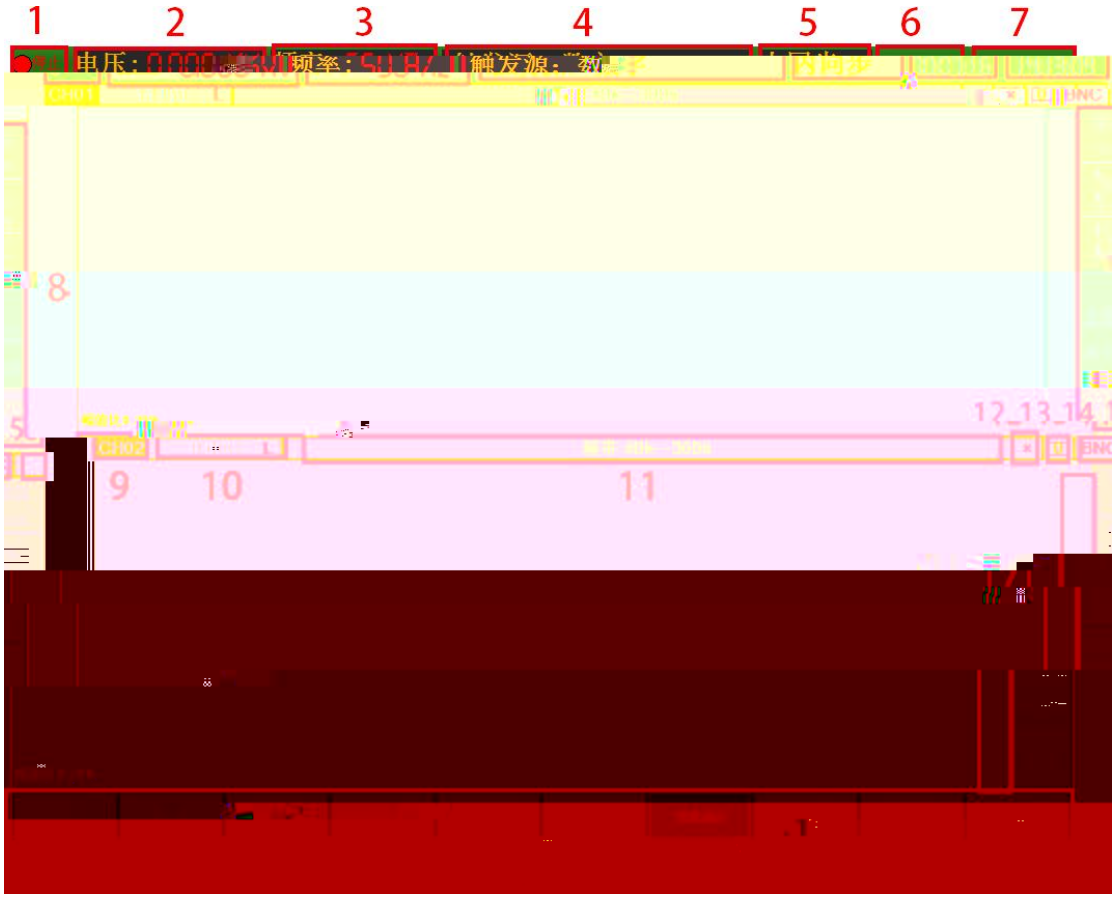


4.2

1		
2		0.1A
3		
4		
5	1 2	
6	1 2	
7	1 2	
8		
9	/	/
10	RS232	RS232
11	VGA	
12	USB	USB
13	RJ45	

4.2

4.2.1



4.3

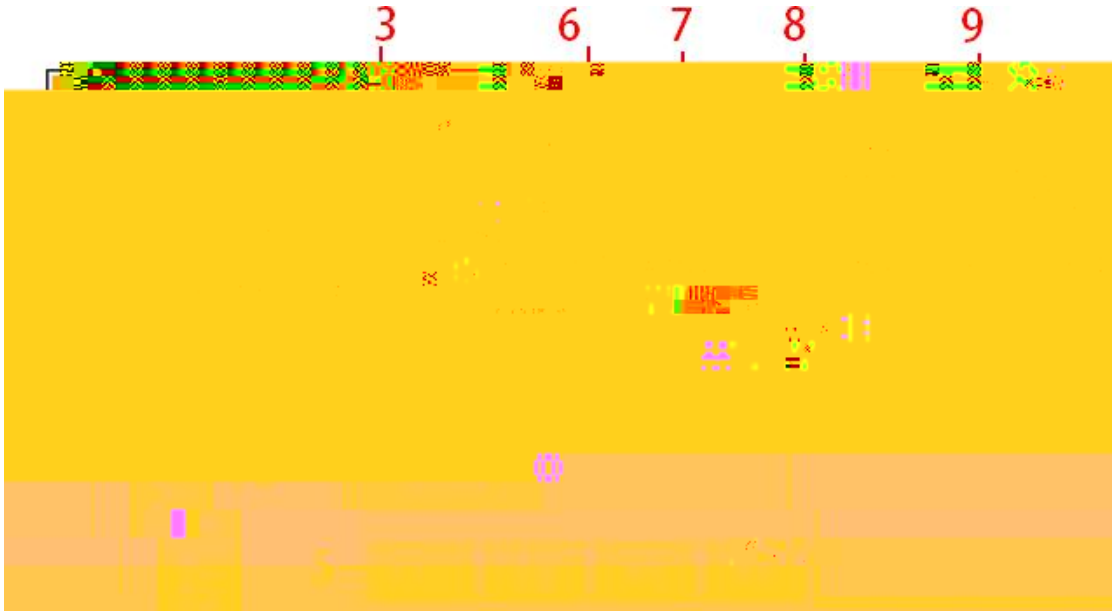
1	/	
2		
3		
4		
5		
6		
7		
8		

9
10
11
12

“

"

4.2.2

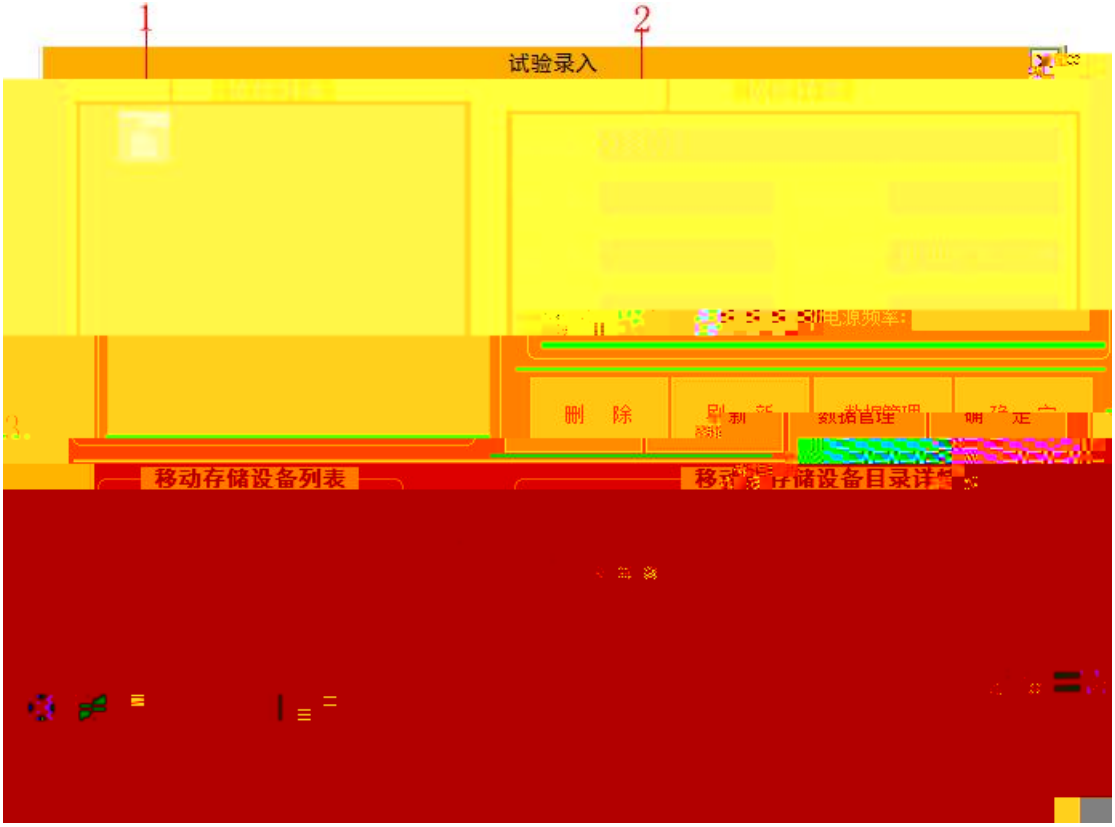


4.4

1		CH01 CH02 “ ” “ ” “ ”
2		
3		1 3 5 7 10 15 20 25 IEC 1 IEC

		2 IEC 3 IEC 1 IEC 2 IEC 3
4		
5		....
6		2
7	/ /	BNC
8		“ ”
9		
10		

4.2.3



4.5

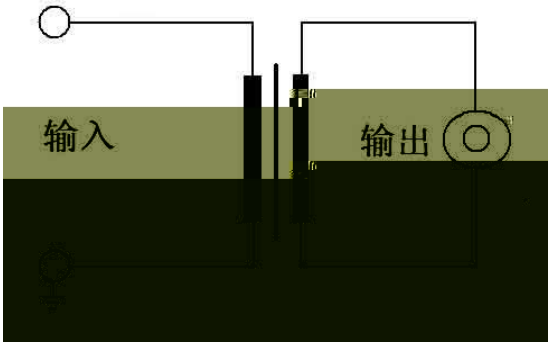
1		
2		
3		

4		
5		->U U
6		U

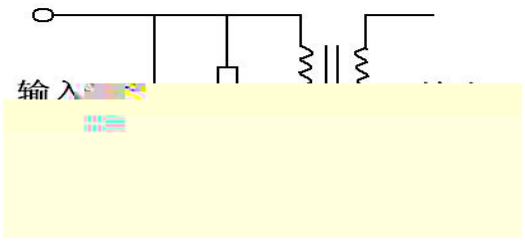
4.3

4.3.1

PD RLC



4.6



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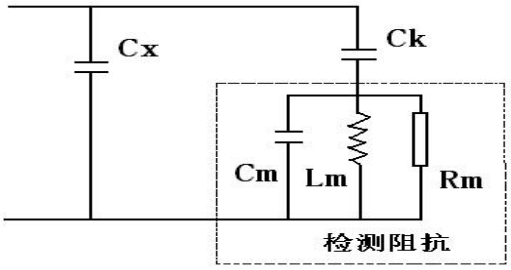


4.8 RLC

1 4-8 RLC Cx

Ck Cx

Δu Ck I

q

RLC Lm Cm

Rm Cx Ck Lm

(Lm Cm

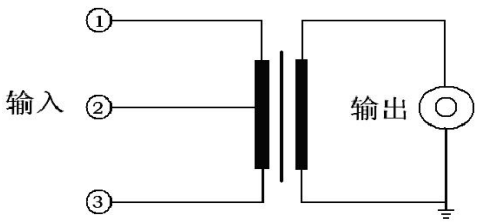
) (

Ct (Ct´))

1/2 √

Ct = Cx*Ck/(Cx+Ck)

2



4.9

3

PD 7 (Ct´

Ct (Ct´)

C_K Γ C_X Ct

1

(RMS)

Ct´

1	6pF-25pF-100pF	0.01pc	30mA	0.25A
	25pF-100pF-400pF	0.02pc	60mA	0.5A
	100pF-400pF-1500pF	0.04pc	120mA	1A
	400pF-1500pF-6000pF	0.08pc	250mA	2A
	1500pF-6000pF-0.025			

10

5.1

5.1.1

a)

b) 220V AC220V

c)

d) 50

e)

3

5.1.2

50

5.5

10kHz 20kHz 40kHz
80kHz 100kHz 200kHz 300kHz 400kHz
40-200kHZ 40-400kHz

5.6

5.6.1

6 -40dB -20dB 0dB 20dB
40dB 60dB

h)

“ ” “ ”

“ ”

5.8

a)

b) “ ” “ ”

c)

d)

e)

f)

“ ”

g) “ ”

“ ”

6.1

6.1.1

6.1.2

pC

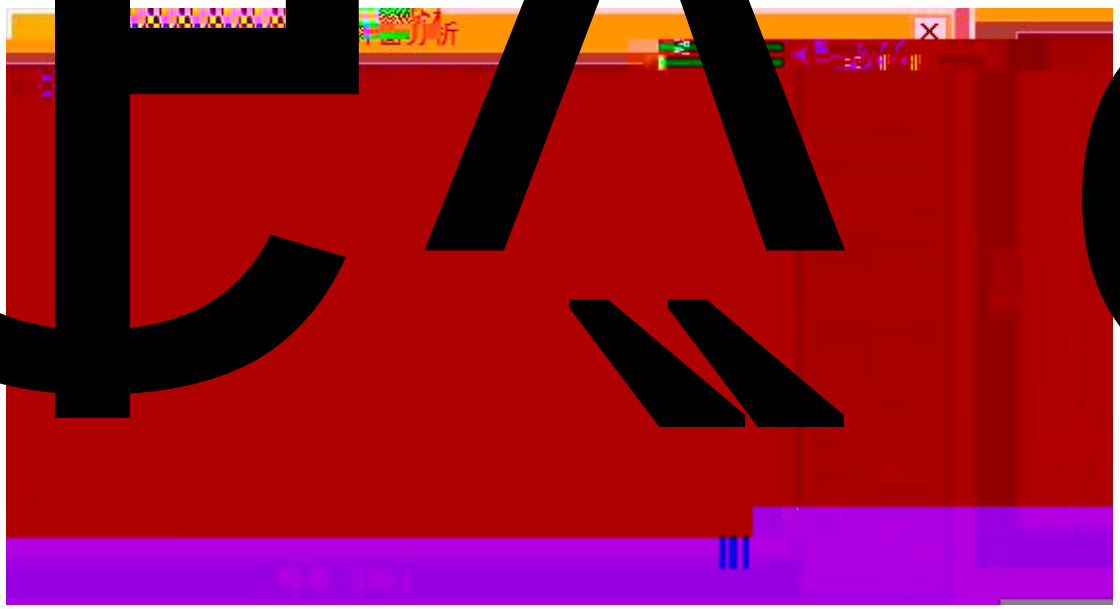
[ ]

“ ” [ ]

6.1.3

“ ”

pC



6.2 ——

[ ]

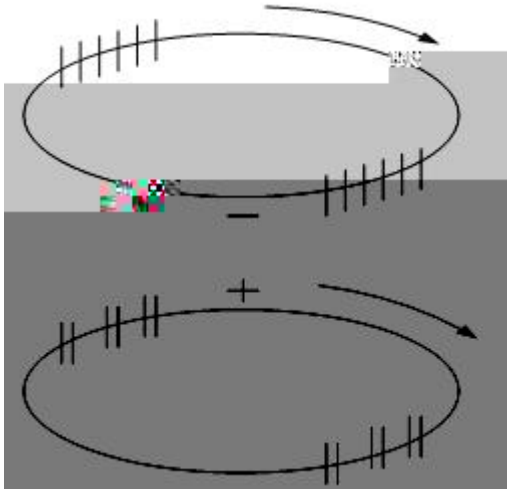
[ ]/[ ]

[ ]

6.2

6.2.1

ʃ Ķ m"



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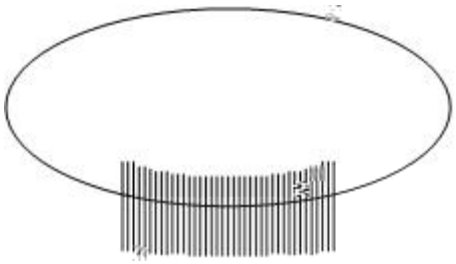
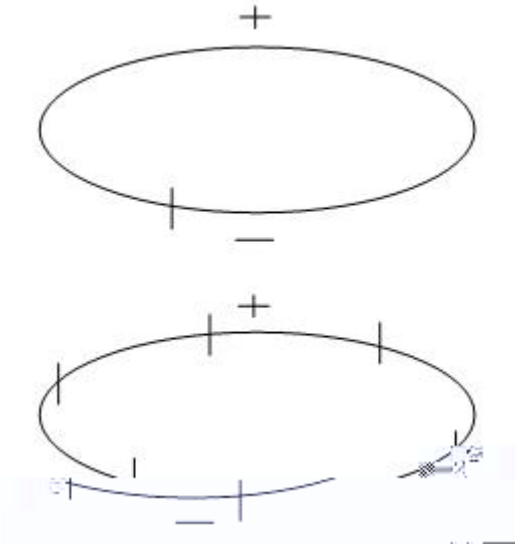


6.4

6.5



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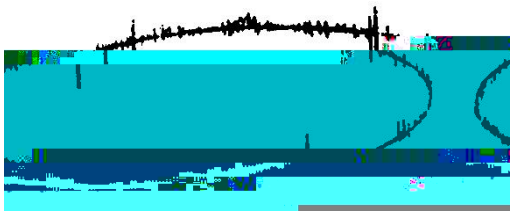

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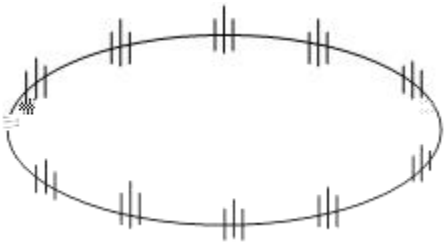
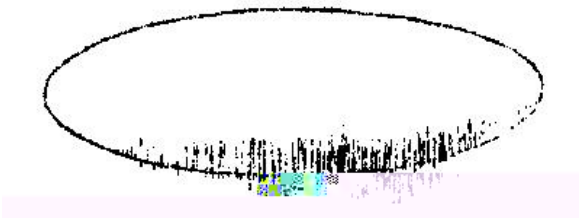
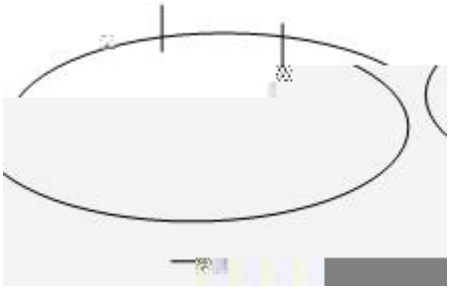




6.12

6.13



6.14

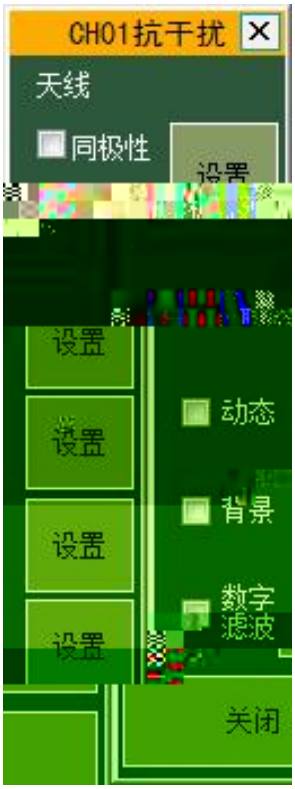
6.2.2

“ ”

“ ” “ ”

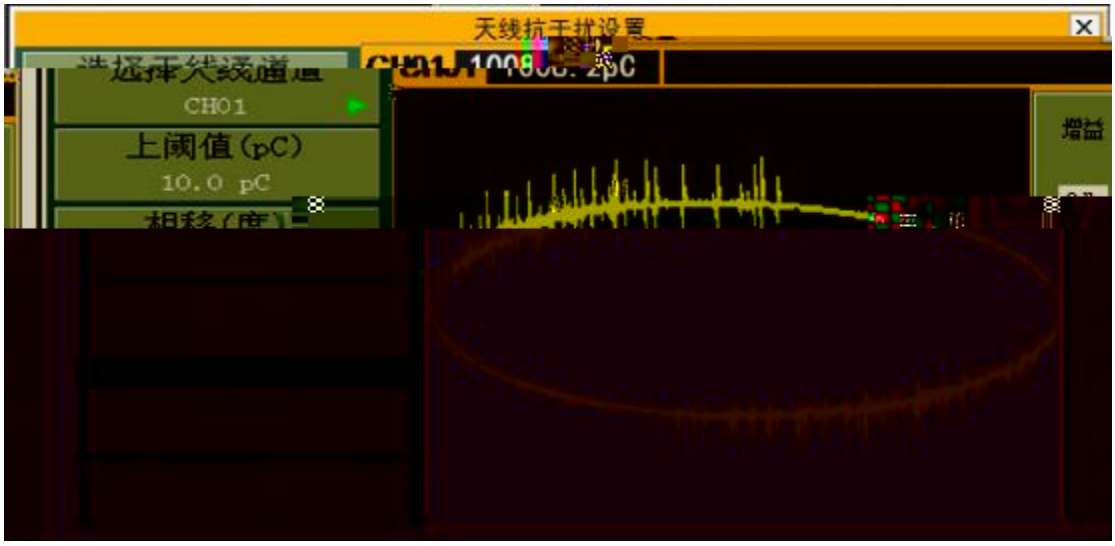
“ ”

“ ”



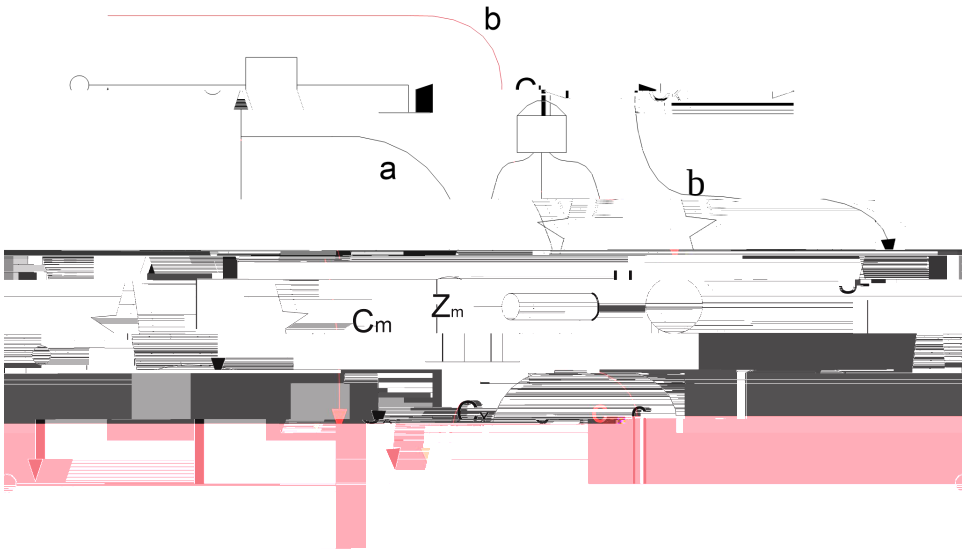
6.15

6.2.3



6.16

1



6.17

6.17 a b

6.17 c

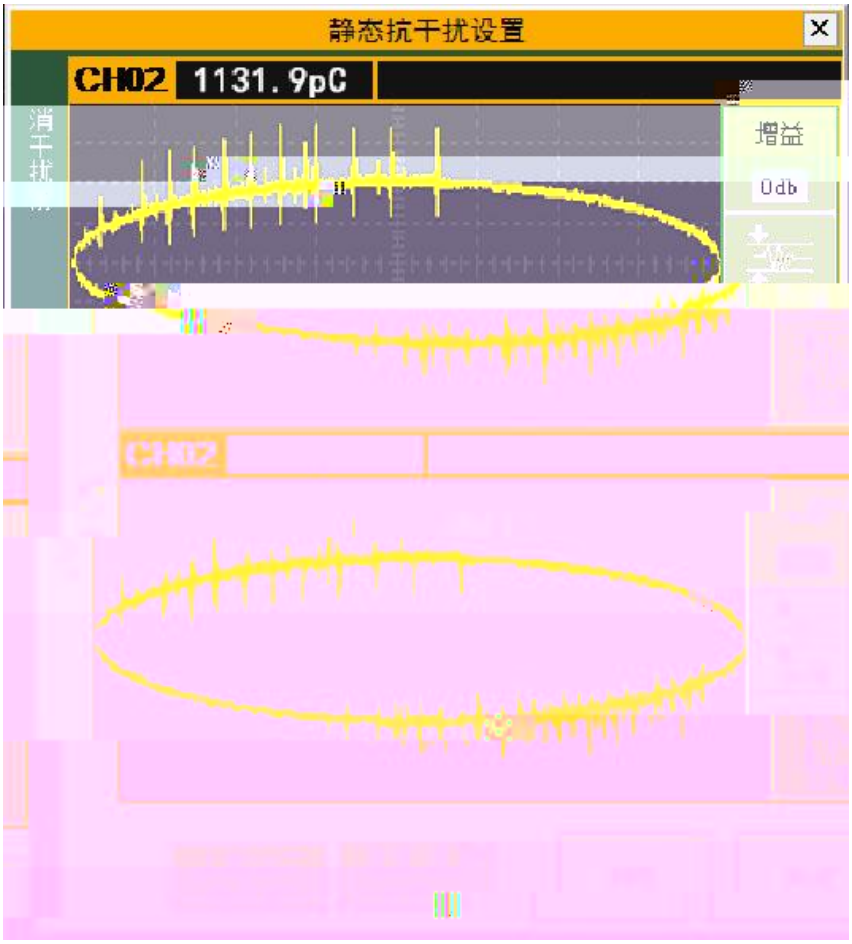
“ ”

2 4

a)

b) 1 “ ”

6.2.4



6.18

“ ” “ ” “ ”

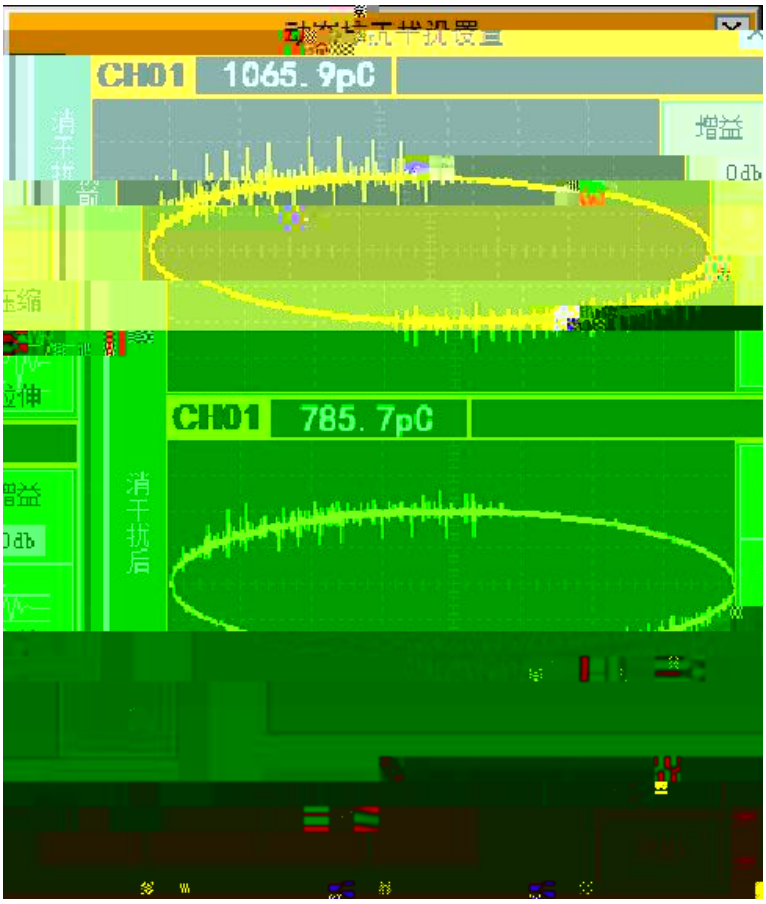
“ ” “ ”

pC “ ”

“ ” “ ” “ ”

“ ” “ ”

6.2.5



6.19

pC “ ” “ ” “

”

“ ” “ ” pC

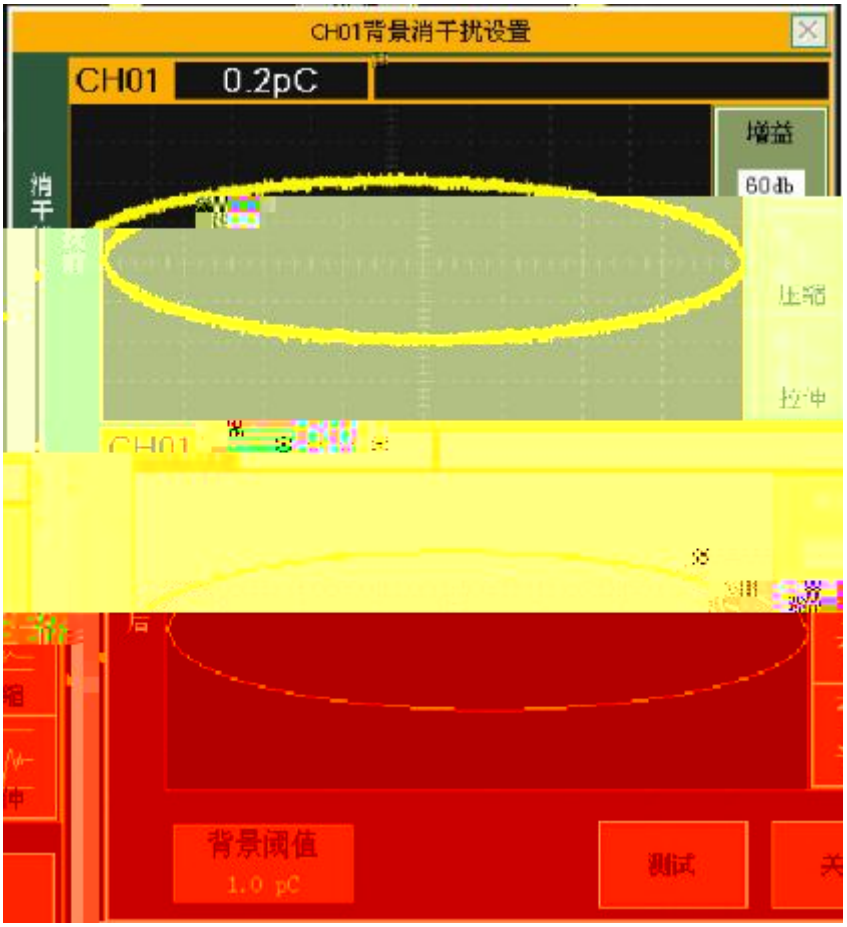
“ ” “ ” pC “ ”

“ ”

“ ”

“ ” 0

6.2.6



6.20

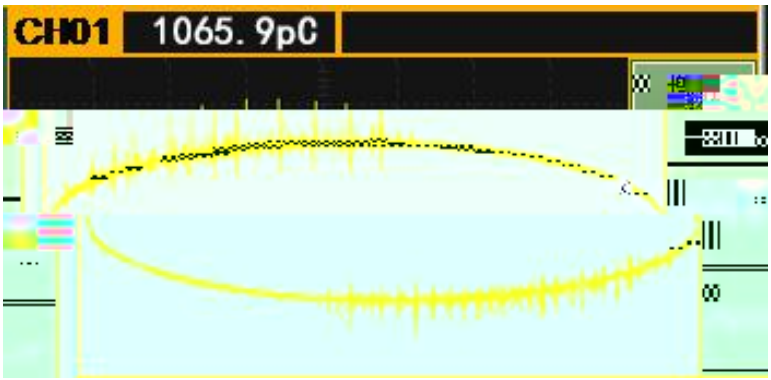
pC

6.2.7

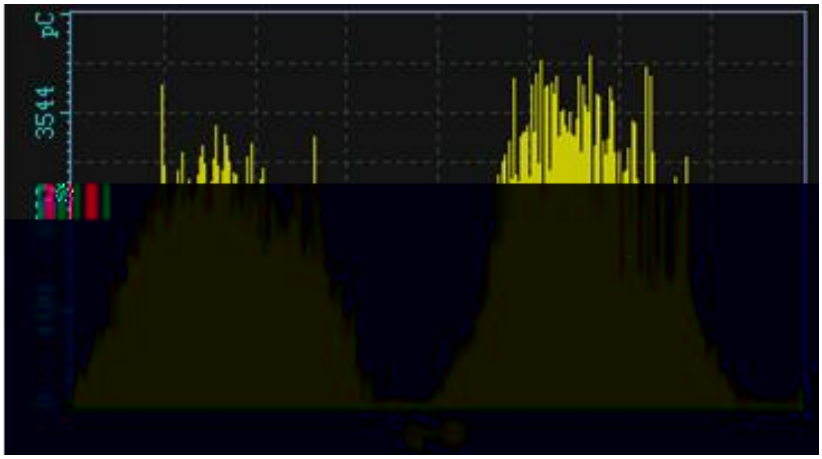
6.21

6.3

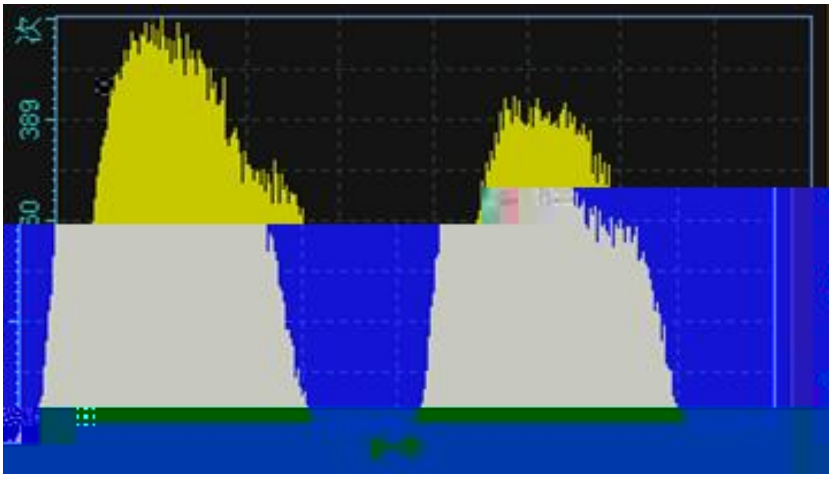
6.3.1



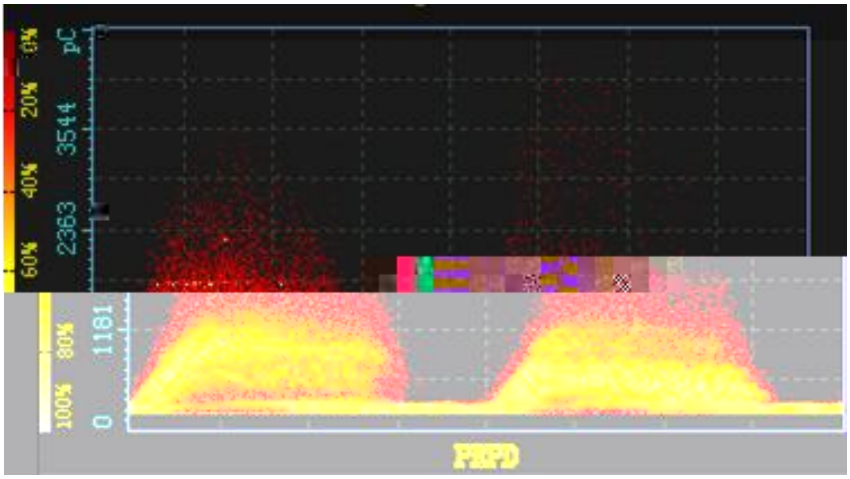
1 Q-φ

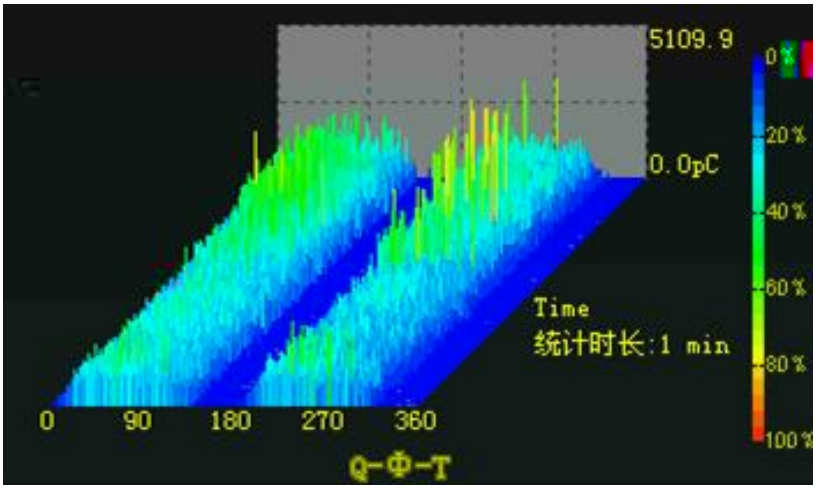


2 N-φ



3 PRPD

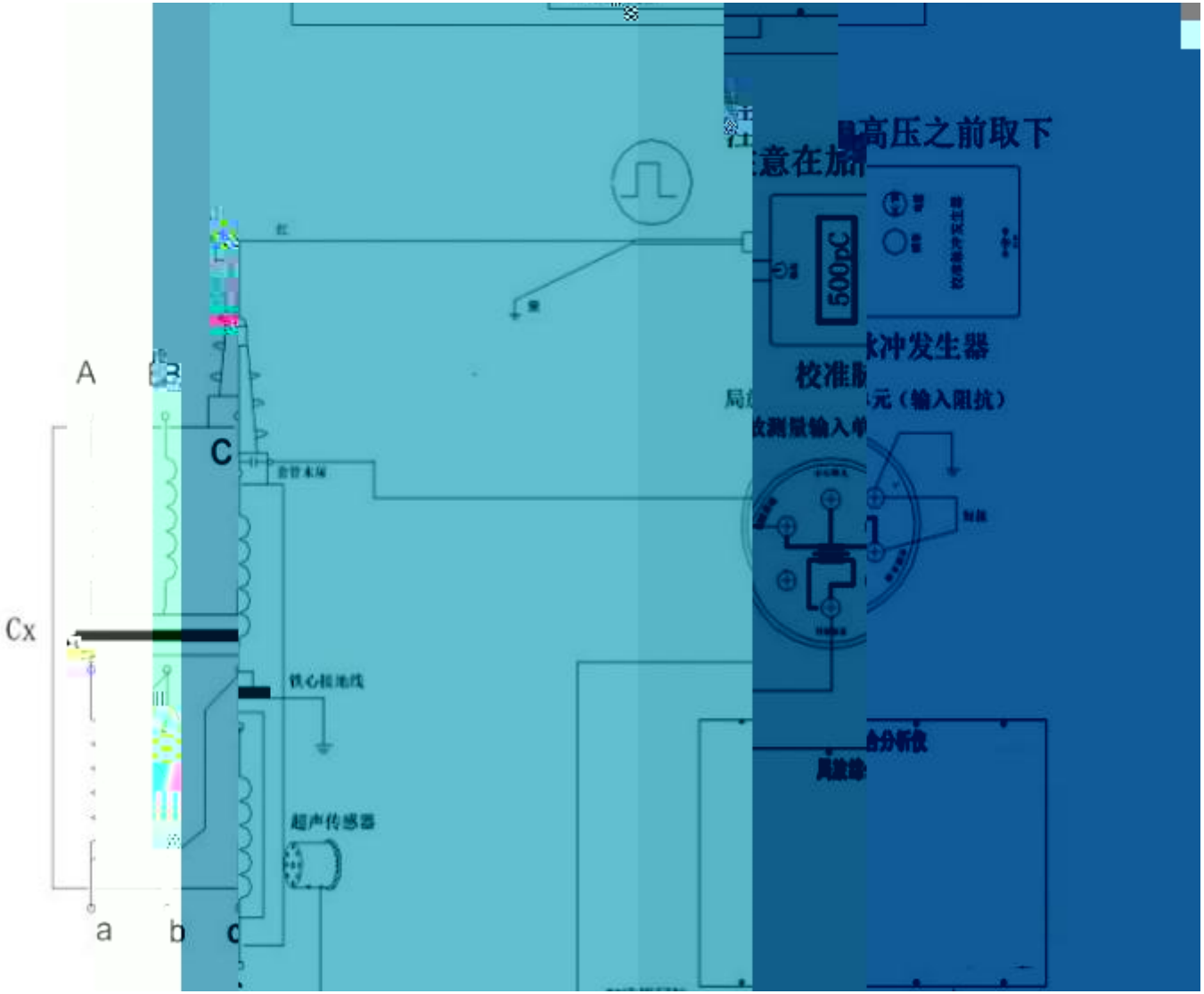

pC
3544
2363
1181
0
PRPD

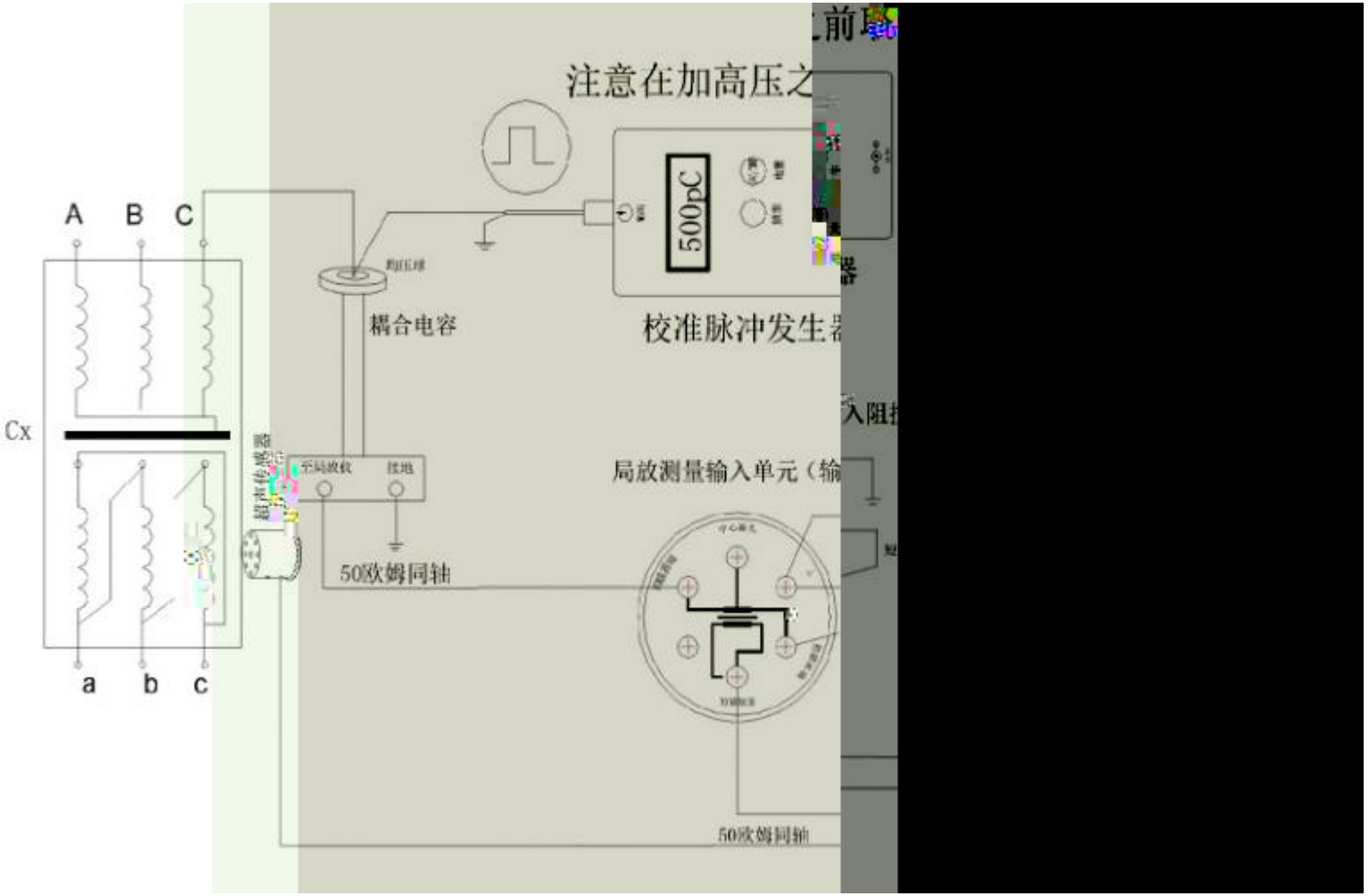

5109.9
0.0pC
Time
统计时长:1 min
0
90
180
270
360
Q-Φ-T

φ

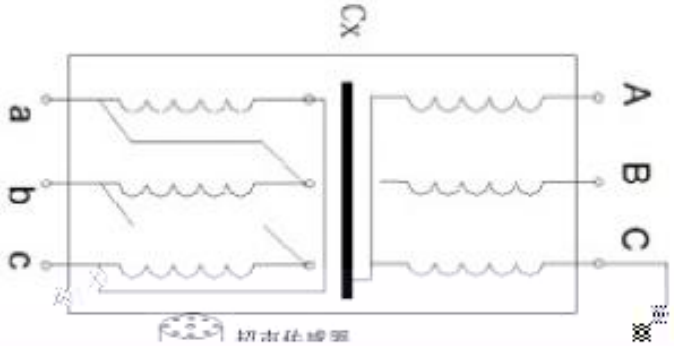
6.3.2

“ ” “ ”


高压之前取下
500pC
A
C
Cx
超声传感器
a
b
c


注意在加高压之
500pC
校准脉冲发生器
耦合电容
A B C
Cx
a b c
局放测量输入单元（输
50欧姆同轴
50欧姆同轴

Cx
A
B
C
a
b
c
(输入阻抗)


Cx
a
b
c
A
B
C