

Return Free

RELEASE FOR TRANSFERRED PRODUCTION

IN BRIVE OF TYPES:

E10.12..

E10.130..

Q13.110..

M.13.38

Eindhoven, October 1975


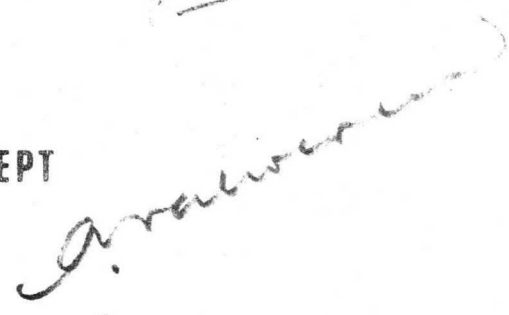
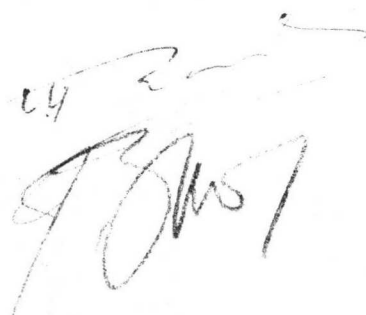
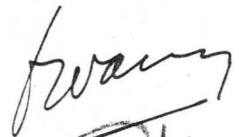
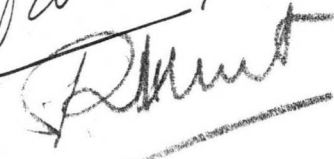
THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : INSTRUMENT CATHODE-RAY TUBE

TYPE : E10-12..

PRODUCTION CENTRE :

<u>NAME</u>	<u>DEPARTMENT</u>	<u>SIGNATURE</u>
Mr. Modderman	COMMERCIAL DEPT	
Mr. Verhoeven	DEVELOPMENT DEPT	
Mr. Radstake Mr. Bru	MANUFACTURING DEPT	
Mr. Wassenaar Mr. Menet	QUALITY LABORATORY	 

DATE 1.10.1975

THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : INSTRUMENT CATHODE-RAY TUBE

TYPE : E10-130..

PRODUCTION CENTRE :

NAME **DEPARTMENT** **SIGNATURE**

Mr. Modderman

COMMERCIAL DEPT



Mr. Verhoeven

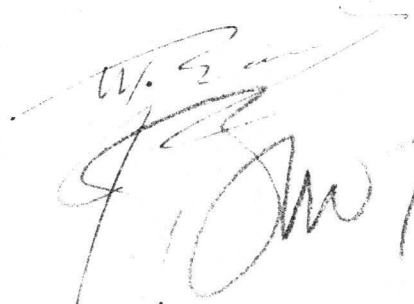
DEVELOPMENT DEPT



Mr. Radstake

MANUFACTURING DEPT

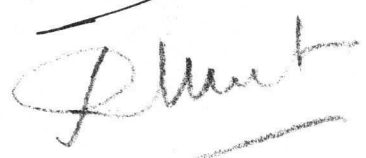
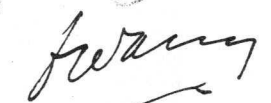
Mr. Bru



Mr. Wassenaar

QUALITY LABORATORY

Mr. Menet



DATE 1-10-1975


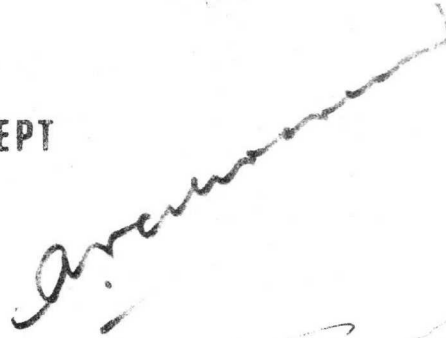
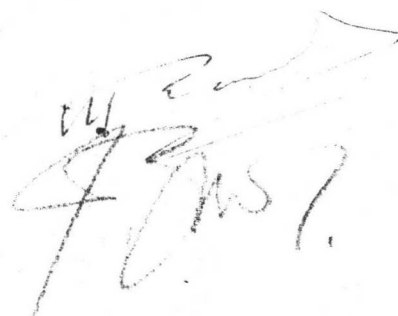
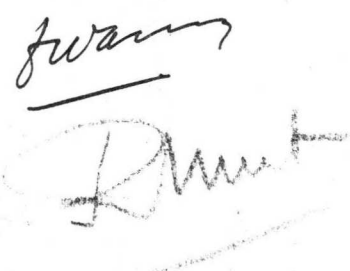
THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : FLYING SPOT SCANNER TUBE

TYPE : Q13-110..

PRODUCTION CENTRE :

<u>NAME</u>	<u>DEPARTMENT</u>	<u>SIGNATURE</u>
Mr. Modderman	COMMERCIAL DEPT	
Mr. Verhoeven	DEVELOPMENT DEPT	
Mr. Radstake Mr. Bru	MANUFACTURING DEPT	
Mr. Wassenaar Mr. Menet	QUALITY LABORATORY	

DATE 1.10.1975

THE UNDERSIGNED AGREE TO

**RELEASE FOR TRANSFERRED
PRODUCTION**

OF : PROJECTION TUBE

TYPE : M. 13-38

PRODUCTION CENTRE :

NAME **DEPARTMENT** **SIGNATURE**

Mr. Modderman

COMMERCIAL DEPT



Mr. Verhoeven

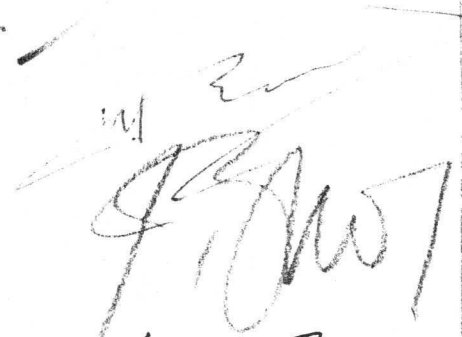
DEVELOPMENT DEPT



Mr. Radstake

MANUFACTURING DEPT

Mr. Bru



Mr. Wassenaar

QUALITY LABORATORY

Mr. Menet



DATE 1.10.1975

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.173

75-09-19

ONDERWERP : Release for transferred production in Brive of C.R.T.
Types M.13-38, Q13-110, E10-12 , E10-130

The C.R.T. types E10-12 , E10-130, M13-38 and Q13-110 made in Brive has been tested in Eindhoven on several parameters according to the F,L and lifetest specification, to obtain "Release for transferred production" in Brive.

Annexed reports give summaries of test and measuring results of the above mentioned C.R.T. types.

As can be seen from the results, summarised in reports RAR-84/75.166, RAR-84/75.167 and RAR-84/75169 dated 75-09-16 these types can be given "Release for transferred production" in Brive.

K.Wassenaar ✓

Copy HH.: v.Geffen
Mathijssen
Mulder
Peper
Padstake
Varekamp
Verhoeven
Modderman
Weyer
Menet } Brive
Bru }

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ONDERWERP : Release for transferred production E10-12 /E10-130

1)	See reports RAR-84/75.018 content test II results batch 1		
	/75.048 " " II " " 2		
	/75.096 " " II " " 3		
	/75.097 " " II " " 4		
	/75.098 " " II " " 5		
	/75.103 " " II " " 6		
	/75.121 " " II " " 7		
	/75.135 " " II " " 8		
	/75.164 " " II " " 9		
	/75.165 " " II " " 10		
	RAR-84/75.101 " L test + lifetest results batch 1		
	/75.102 " L " + " " " batch 2		
	/75.163 " lifetest results batch 3		

2) Summary of test II results

Received 396 tubes

Rejected: 7x imploded	}	Transport damage
1x loose particles		
1x loose connection		
4x glasstrain	}	repaired in Eindhoven
1x high gasvalue		
1x -Vg1 too high		
1x no picture		
2x modulation too high		
1x side cap missing	}	repaired in Eindhoven
1x base protection missing		

Good after repair 380 out of 396 = 96%

3) Summary of L test results

Batch 1

- 2x borderline good angle X/Y
- 1x borderline good angle X'/X"
- 1x borderline good angle side contact connection
- 1x borderline good diam. over side pins
- 1x ecp.Y just outside limits

The other electrical and mechanical measurements are good.

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ONDERWERP :

Batch 2: 1x borderline good on angle X'/X"
1x borderline good on angle -Vg1
1x borderline good on If
1x borderline good on angle of side contact connection
1x Ecc.Y outside limits.
4x Dia over pins too big (repaired in Eindhoven)
The other electrical and mechanical measurements are good.

4) Summary of lifetest results

Batch 1: The results are satisfactory.
2: The results are satisfactory.
3: After 2000 hours 1 tube with bad modulation.

5) Conclusion

From the results we conclude that there is no objection on against release of the C.R.T. type E10-12 ,E10-130 for production and measuring in Brive.

G. Geevers

Copy to Messrs.: Bru Approved K.Wassenaar
 Menet
 Varekamp
 Wassenaar
 Peper
 Modderman

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR 84/75.018

1-1

75-01-28

ONDERWERP : Release for transferred production E10-12 GH batch 1

Received 4 pieces
Measured 4 pieces
Good 4 pieces

tube nr. 1 : borderline case angle side connectors and
diam. over side pins.
97.4 mm: limit 97.5 mm

tube nr.2 : Borderline case angle of traces system II
-60 min: limit \pm 60 min

tube nr. 3 : Borderline case angle of traces system I
+ 55 min.: limit \pm 60 min
and borderline case angle X'/X"
- 45 min: limit \pm 48 min.

Tubes will be used for L test and life test.

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/7.048

1

75-03-10

ONDERWERP : Release for transferred production E10-12GP. batch 2

Test II results

Received 10 tubes

Measured 5 tubes

All tubes are good.

5 tubes will be used for L-test and life test

5 tubes delivered to the store.

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.096

1

75-05-27

ONDERWERP : Release for transferred production E10-12GH batch 3

Test II results

Received 19 pieces

Measured 5 pieces

All tubes are good

5 Tubes will be used for L test and life test

14 Tubes delivered to the store

G. Geevers

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RAR-84/75-097

1

75-05-29

ONDERWERP : Release for transferred production E10-12GP batch 4

Test II results

Received 40 pieces

Measured 8 pieces

All tubes are good (1x after repair on insulation K/G1)

40 Pieces delivered to the store.

G. Geevers

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RAR-84/75.098

1

75-05-29

ONDERWERP : Release for transferred production E10-12GP batch 5

Test II results

Received 55 pieces

Measured 15 pieces

Good 11 pieces

2x modulation too high

1x insulation K/G1(reject)

1x screenglass damaged(repair)

Batch is rejected

55 Pieces are sent to the factory to measure
all the tubes.

Results after measuring:

51 good

2 modulation too high(repaired)

1 K/G1

1 no picture

53 are sent to the store

G.Geevers

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RAR-84/75.103

1

75-05-19

ONDERWERP : Release for transferred production E10-12GP batch 6

Test II results:

Received 40 pieces

Measured 20 pieces

Good 14 pieces

Rejected 6 pieces

4 pieces imploded

1 piece glasstrain base

1 piece -Vg1 too high

1 piece loose connection Y plate

1 piece loose particles

Visually inspected 20 pieces

Good 17 pieces

Rejected 3 pieces

2 pieces imploded

1 piece badly glued of side cap connection

Conclusion: after repair 32 pieces good
 rejected 8 pieces

Remark: 1 tube base protection forgotten

Damage of tubes is caused by use of the wrong packing . An improved or individual packing is necessary.

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAAR-84/75.121

1

75-06-19

ONDERWERP : release for transferred production E10-12GP batch 7

Test II results

Received 60 pieces

Measured 8 pieces

1 piece glassstrain

7 pieces good

Visual inspection of 60 pieces

Total results good 57 pieces

rejected 3 pieces glasstrain

G.Ceevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAA-84/75.135

1

75-07-22

ONDERWERP : Release for transferred production E10-12GP batch 8

Test II results

Received 60 pieces

code 304
EDF

Measured 20 pieces

Good 18 pieces

Rejected 2 pieces

1x modulation too high (repair)

1x transport damage (cracked)

Result: Batch is good

58 pieces delivered to the store

1 piece repaired in Eindhoven

1 piece destroyed

G. Geevers

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Wassenaar

A. H. H. H.

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.164

1

75-09-16

ONDERWERP : Release for transferred production E10-130GP batch 9

Test II results

Received 38 pieces

Measured 5 pieces

Good 4 pieces

Rejected 1 piece modulation too high (repaired in Eindhoven)

Batch is rejected

New test:

33 pieces left

measured 5 pieces

Good 5 pieces

Batch is good.

Delivered to the store 37 pieces.

for repair 1x to the factory

G.Geevers

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Varekamp

Wassenaar

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.165

1

75-09-16

ONDERWERP : Release for transferred production E10-12GP batch 10

Test II results

Received 70 tubes

Measured 20 tubes

Good 20 tubes

Batch is good

G.Geevers

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ONDERWERP : Release for transfer production E10-12 GH batch 1
Results of L test and lifetest results

1. Contents:

Test results are given on attached sheets

Sheet no 2 up to and 12 give L-test results

Sheet no 13 up to and 16 give life test results

2. Summary of results:

a. L test result (see also RAR-84/75.018)

1) already mentioned in RAR-84/75.018

2x borderline good angle X/Y

1x borderline good angle X'/Y''

1x borderline good sidecontact connection

1x borderline good diam. over side pins

2) 1x exc. Y just outside limits

3) The other electrical and mechanical measurements
are satisfactory

b. Life test

The results are satisfactory

3. Conclusion:

The total result is satisfactory.

G. Geevers

Copy to Messrs.: Dechering

Menet

Varekamp

Wassenaar

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CONTROLLE - CONTROLE
KONTROLLE - TEST

VOOR: L test

ONTVANGEN OP:

STEMPEL: 525
644

GEZIEN:

E 10-12-9H

METING	1			2			3			4			5			EISEN	EENHEDEN	CONCLUSIE
	MIN	MAX	TEST	MIN	MAX	TEST	MIN	MAX	TEST	MIN	MAX	TEST	MIN	MAX	TEST			
1	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
2	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
3	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
4	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
5	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension
	91"	92"	94"	95"	95"	99"	95"	95"	95"	95"	95"	95"	95"	95"	95"	No high tension	No high tension	No high tension

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17

CONTROL - CONTROLE
KONTROLLE - TEST

VOORLOPIG

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

10-12..

PAR PAR PAR SIGN

CODE N°

TYPE

E10-12..

BLADEN
BLATT
FEUILLES
SHEETS

BLAD
BLATT
FEUILLE
SHEET

862-2

METING	STEMPEL				ONTVANGEN OP				VOOR				GEZIEN												
	(1=)	(2=)	(3=)	(4=)	(1=)	(2=)	(3=)	(4=)	(1=)	(2=)	(3=)	(4=)	(1=)	(2=)	(3=)	(4=)									
1	7.05	7.10	7.05	7.10	15.50	15.85	15.50	15.85	0	0	0	0	17	14	6	-8	-4	-8	-14	-15	Good	Good	Good	+12	
2	7.10	7.05	7.10	7.05	15.85	15.50	15.85	15.50	0	0	0	0	15	11	-8	-15	-2	2	-15	-9					-10
3	7.05	7.10	7.05	7.10	15.50	15.85	15.50	15.85	0	0	0	0	12	14	5	-4	15	-3	-15	-8					+31
4	6.10	6.10	6.10	6.10	15.80	15.80	15.80	15.80	0	0	0	0	12	14	-4	2	16	11	-11	-2					-10
5	6.88	6.88	6.88	6.88	15.76	15.76	15.76	15.76	0	0	0	0	14	8	0	-6	2	2	-14	-9					+1
7	1.0	1.0	1.0	1.0	0.35	0.35	0.35	0.35	0	0	0	0	5	85	14	14	33	14	4	18					0
R	7.0	7.0	7.0	7.0	12.1	12.1	12.1	12.1	0	0	0	0	20	20	20	20	20	20	20	20	57	57	57	57	-60
X MIN																									+6
X MAX																									
R MAX																									
*MIN																									
MAX																									
EENHEDEN					1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000	1/1000
CONCLUSIE																									

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DATE

BY

12

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RAR-04/35101

E10-12...		GEZIGEN:					VOOR:					ONTVANGEN OP:					STEMPEL:										
		6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
METING																											
ING. IN RV 6-3-0/403																											
BUISNUMMER		1	2	3	4	5																					
EISEN																											
EENHEDEN																											
CONCLUSIE																											

18

Voorloepig

E10-12...

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

Magazijn van de N.V. Philips' Gloeilampenfabrieken, Eindhoven.

Eigendom der N.V. Philips' Gloeilampenfabrieken, Eindhoven.

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Table with columns: CONTROLLE - CONTROLE, KONTROLLE - TEST, METING, MEASUREMENT, and CONCLUSIE. Includes rows for bus numbers 1-5 and material types like EISEN.

Table with columns: STEMPEL, ONTVANGEN OP, VOOR, GEZIEN. Contains various alphanumeric codes and stamps.

Main data table with multiple columns for measurements and quality checks. Includes handwritten entries for dimensions, weights, and material grades.

CONSOLE - CONSOLE / KONTROLLE - TEST	CODE No. / TYPE	EENHEDEN	ONTVANGEN OP:			VOOR:			GEZIEN:												
			STEMPEL:	METING	PAR / PAR / SIGN	BLADEN / PLATEN / FEUILLES / SHEETS	PAR / PAR / SIGN	BLAD / BLAD / FEUILLE / SHEET	CONSOLE - CONSOLE / KONTROLLE - TEST	CODE No. / TYPE	EENHEDEN										
1/2 (1/2)	1,6	adi	6,3	6,3	6,3	1,2	1,2	1,2	6,3	6,3	6,3	6,3	6,3								
1/4 (1/4)	2	adi	7	7	7	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/2 (1/2)	3	adi	7	7	7	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/2 (1/2)	7	adi	7	7	7	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/2 (1/2)	5	adi	3	3	3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	0	adi	0	0	0	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	0	adi	0	0	0	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	5	adi	5	5	5	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	10	adi	10	10	10	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	15	adi	15	15	15	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	20	adi	20	20	20	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	25	adi	25	25	25	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	30	adi	30	30	30	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	35	adi	35	35	35	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	40	adi	40	40	40	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	45	adi	45	45	45	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	50	adi	50	50	50	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	55	adi	55	55	55	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	60	adi	60	60	60	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	65	adi	65	65	65	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	70	adi	70	70	70	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	75	adi	75	75	75	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	80	adi	80	80	80	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	85	adi	85	85	85	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	90	adi	90	90	90	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	95	adi	95	95	95	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								
1/4 (1/4)	100	adi	100	100	100	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2								

E 10-12..

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Uitgevoerd door de N.V. Philips' Gloeilampenfabrieken, Eindhoven. Uitgevoerd door de N.V. Philips' Gloeilampenfabrieken, Eindhoven.

RAA-04/25101 Meet 8

STEMPEL	ONTVANGEN OP	VOOR	GEZIEN	E10-12
ke (V ¹)	ke	ke	ke	ke
ke (V ²)	ke	ke	ke	ke
ke (V ³)	ke	ke	ke	ke
ke (V ⁴)	ke	ke	ke	ke
ke (V ⁵)	ke	ke	ke	ke
ke (V ⁶)	ke	ke	ke	ke
ke (V ⁷)	ke	ke	ke	ke
ke (V ⁸)	ke	ke	ke	ke
ke (V ⁹)	ke	ke	ke	ke
ke (V ¹⁰)	ke	ke	ke	ke
ke (V ¹¹)	ke	ke	ke	ke
ke (V ¹²)	ke	ke	ke	ke
ke (V ¹³)	ke	ke	ke	ke
ke (V ¹⁴)	ke	ke	ke	ke
ke (V ¹⁵)	ke	ke	ke	ke
ke (V ¹⁶)	ke	ke	ke	ke
ke (V ¹⁷)	ke	ke	ke	ke
ke (V ¹⁸)	ke	ke	ke	ke
ke (V ¹⁹)	ke	ke	ke	ke
ke (V ²⁰)	ke	ke	ke	ke
ke (V ²¹)	ke	ke	ke	ke
ke (V ²²)	ke	ke	ke	ke
ke (V ²³)	ke	ke	ke	ke
ke (V ²⁴)	ke	ke	ke	ke
ke (V ²⁵)	ke	ke	ke	ke
ke (V ²⁶)	ke	ke	ke	ke
ke (V ²⁷)	ke	ke	ke	ke
ke (V ²⁸)	ke	ke	ke	ke
ke (V ²⁹)	ke	ke	ke	ke
ke (V ³⁰)	ke	ke	ke	ke
ke (V ³¹)	ke	ke	ke	ke
ke (V ³²)	ke	ke	ke	ke
ke (V ³³)	ke	ke	ke	ke
ke (V ³⁴)	ke	ke	ke	ke
ke (V ³⁵)	ke	ke	ke	ke
ke (V ³⁶)	ke	ke	ke	ke
ke (V ³⁷)	ke	ke	ke	ke
ke (V ³⁸)	ke	ke	ke	ke
ke (V ³⁹)	ke	ke	ke	ke
ke (V ⁴⁰)	ke	ke	ke	ke
ke (V ⁴¹)	ke	ke	ke	ke
ke (V ⁴²)	ke	ke	ke	ke
ke (V ⁴³)	ke	ke	ke	ke
ke (V ⁴⁴)	ke	ke	ke	ke
ke (V ⁴⁵)	ke	ke	ke	ke
ke (V ⁴⁶)	ke	ke	ke	ke
ke (V ⁴⁷)	ke	ke	ke	ke
ke (V ⁴⁸)	ke	ke	ke	ke
ke (V ⁴⁹)	ke	ke	ke	ke
ke (V ⁵⁰)	ke	ke	ke	ke
ke (V ⁵¹)	ke	ke	ke	ke
ke (V ⁵²)	ke	ke	ke	ke
ke (V ⁵³)	ke	ke	ke	ke
ke (V ⁵⁴)	ke	ke	ke	ke
ke (V ⁵⁵)	ke	ke	ke	ke
ke (V ⁵⁶)	ke	ke	ke	ke
ke (V ⁵⁷)	ke	ke	ke	ke
ke (V ⁵⁸)	ke	ke	ke	ke
ke (V ⁵⁹)	ke	ke	ke	ke
ke (V ⁶⁰)	ke	ke	ke	ke
ke (V ⁶¹)	ke	ke	ke	ke
ke (V ⁶²)	ke	ke	ke	ke
ke (V ⁶³)	ke	ke	ke	ke
ke (V ⁶⁴)	ke	ke	ke	ke
ke (V ⁶⁵)	ke	ke	ke	ke
ke (V ⁶⁶)	ke	ke	ke	ke
ke (V ⁶⁷)	ke	ke	ke	ke
ke (V ⁶⁸)	ke	ke	ke	ke
ke (V ⁶⁹)	ke	ke	ke	ke
ke (V ⁷⁰)	ke	ke	ke	ke
ke (V ⁷¹)	ke	ke	ke	ke
ke (V ⁷²)	ke	ke	ke	ke
ke (V ⁷³)	ke	ke	ke	ke
ke (V ⁷⁴)	ke	ke	ke	ke
ke (V ⁷⁵)	ke	ke	ke	ke
ke (V ⁷⁶)	ke	ke	ke	ke
ke (V ⁷⁷)	ke	ke	ke	ke
ke (V ⁷⁸)	ke	ke	ke	ke
ke (V ⁷⁹)	ke	ke	ke	ke
ke (V ⁸⁰)	ke	ke	ke	ke
ke (V ⁸¹)	ke	ke	ke	ke
ke (V ⁸²)	ke	ke	ke	ke
ke (V ⁸³)	ke	ke	ke	ke
ke (V ⁸⁴)	ke	ke	ke	ke
ke (V ⁸⁵)	ke	ke	ke	ke
ke (V ⁸⁶)	ke	ke	ke	ke
ke (V ⁸⁷)	ke	ke	ke	ke
ke (V ⁸⁸)	ke	ke	ke	ke
ke (V ⁸⁹)	ke	ke	ke	ke
ke (V ⁹⁰)	ke	ke	ke	ke
ke (V ⁹¹)	ke	ke	ke	ke
ke (V ⁹²)	ke	ke	ke	ke
ke (V ⁹³)	ke	ke	ke	ke
ke (V ⁹⁴)	ke	ke	ke	ke
ke (V ⁹⁵)	ke	ke	ke	ke
ke (V ⁹⁶)	ke	ke	ke	ke
ke (V ⁹⁷)	ke	ke	ke	ke
ke (V ⁹⁸)	ke	ke	ke	ke
ke (V ⁹⁹)	ke	ke	ke	ke
ke (V ¹⁰⁰)	ke	ke	ke	ke

CONTROLLE - CONTROLE / KONTROLLE - TEST

Voorgelopen

PAR PAR PAR SIGN

CODE N°

TYPE

EISEN

BLADEN / BLATTER / FEUILLES / SHEETS

EENHEDEN

BLAD / BLATT / FEUILLE / SHEET

CONCLUSIE

862-7

E10-12

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RRR-24/15/01 sheet 9

23		E10-12..	
CONTROLLE - CONTROLE KONTROLLE - TEST		GEZIEN:	
Voorlopig		VOOR:	
N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.		ONTVANGEN OP:	
STEMPEL:		METING:	
1	63	63	63
2	63	63	63
3	63	63	63
4	63	63	63
5	63	63	63
6	63	63	63
7	63	63	63
8	63	63	63
9	63	63	63
10	63	63	63
11	63	63	63
12	63	63	63
13	63	63	63
14	63	63	63
15	63	63	63
16	63	63	63
17	63	63	63
18	63	63	63
19	63	63	63
20	63	63	63
21	63	63	63
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41	63	63	63
42	63	63	63
43	63	63	63
44	63	63	63
45	63	63	63
46	63	63	63
47	63	63	63
48	63	63	63
49	63	63	63
50	63	63	63
51	63	63	63
52	63	63	63
53	63	63	63
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87	63	63	63
88	63	63	63
89	63	63	63
90	63	63	63
91	63	63	63
92	63	63	63
93	63	63	63
94	63	63	63
95	63	63	63
96	63	63	63
97	63	63	63
98	63	63	63
99	63	63	63
100	63	63	63

CONCLUSIE Jan. I
 0 + 24" 41' 2" 91' 94' 92' 95' 97' 91' 91' 92" 92" 92"
 - 91" 98' 98" 94' 96' 98' 94" 91' 92" 92"
 + 24" 41' 2" 91' 94' 92' 95' 97' 91' 91' 92" 92"
 - 91" 98' 98" 94' 96' 98' 94" 91' 92" 92"
 - 91" 98' 98" 94' 96' 98' 94" 91' 92" 92"
 II

Eigendom van de N.V. Philips Gloeilampenfabrieken. Eigentw. op de productie en de afwerking van de lampen in welke vorm ook, is zonder schriftelijke toestemming van eigenares niet toegestaan.

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GEZIEN:

VOOR:

ONTVANGEN OP:

STEMPEL:

E 10-12.

NUMMERS	TOEGEF. W. (mm)	TOEGEF. H. (mm)	TOEGEF. L. (mm)	TOEGEF. D. (mm)	TOEGEF. R. (mm)	TOEGEF. S. (mm)	TOEGEF. T. (mm)	TOEGEF. U. (mm)
1								
2	2.10	9.0	7.2	6.7	10.5	8.6	-3.0	
3	10.4	6.9	8.0	4.9	9.2	-1.9	-4.3	
4	12.8	6.0	8.5	8.8	4.4	8.5	-0.6	
5	19.4	9.1	8.2	8.8	5.5	5.9	-3.7	
	19.2	7.0	5.3	4.6	7.4	2.5	-2.9	
	8.6	8.0	6.3	3.9	6.1	3.8	8.7	
	3	1.5	4.5	4	1	4		
	10	0	0	0	16	4	12	
X								
R								
EISEN								
S P B STUKS								
EENHEDEN								
PAR	PAR	PAR	PAR	PAR	PAR	PAR	PAR	PAR
BLAD	BLATZER	FEUILLES	SHEETS	BLAD	BLATT	FEUILLE	SHEET	
CONCLUSIE								
Cap A = (C * 1/4) - (C * 1/4)								
Cap B = (C * 1/4) - (C * 1/4)								

Capacitoras Sistemės ABC Systemas

90/195° 1/11° 1/2° 1/4° 1/16° 1/2° 1/8° 1/16° A B

NR. IN RV 6-3-0/103

CONTOLE - CONTROLE
KONTROLLE - TEST

Voorlopig

CODE N°
TYPE E 10-12.

860-10

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 CONTROLLE - CONTROLE
 KONTROLLE - TEST
 Voorlopig

STEMPSEL:
 ONTVANGEN OP:
 VOOR:
 GEZIEN:

METING	STEMPEL	ONTVANGEN OP:	VOOR:	GEZIEN:
1				
2	352,5	92,2	82,1	14
3	351	91,9	82,0	13,5
4	360	92,9	82,4	14,5
5	364	92,0	82,3	15
\bar{x}	359,6	92,6	82,2	14,3
R	8	0,2	0,1	0,5
MIN	352	92,5	81,5	14,1
MAX	366	92,5	85,5	14,5
\bar{x} MIN				
\bar{x} MAX				
R' MAX				
MIN				
MAX				
EENHEDEN				
CONCLUSE				

E 10-12.

100%

100%

100%

100%

100%

100%

100%

CONTROLLE - CONTROLE
 KONTROLLE - TEST

Voorlopig

CODE N. TYPE

ORNIUM PROFESSIONELE KATODESTRAALBUIS

LEVENSDUUR OSCILLOGRAAFBUIZEN

Type : E10-126H Proefnr.: 50171 Aantal : 4 Datum : 75-03-14

Inszender: KRAL, LAB. Poederp.: 15 6,8 V Raster : 40 x 40 mm

Pompvoorschr.: 5 7,0 V V+K/-F : 220 V

Brandvoorschr.: 6 V V-K/+F : V

Fabr. datum : Jan. '75

METEN EN BRANDEN VOORSCHRIFT d.d.: 75-02-18 Type: E10-12

Speciale metingen of wensen:

Afwijking t.o.v. normale productie:

BATCH I BRIVL.

GEWENSTE LEVENSDUUR: 1000 uur

SYSTEEM 1.

buis- nr.	meet- datum	aantal brand uren	-Vg1 10 μA IL	Vg1 not.	Kat. opp.	Ik bij 10μA I Nav.	IL bij 25V Mod. Vg1 I nav.	Mod. Vg1 bij 10 μA I nav.	Kat. eff.	Gas- kruis	Scherm kwal.	Held- der heid	Held. Δ	Scherm opfl.	Lek- stroom	Gas	Isolaties				Opmer- kingen.		
																	+K/-F	-K/+F	I	II III IV			
1	75-03-17	0	25-85	not.	not.	not.	not.	34	Geen	not	not	35,0	not.		2,5-17	34		25	25	3	3		
2	75-03-24	160	V	V		μA	μA	V				cd/m ²	%	V	μA	nA		μA	μA	μA	μA		
3	75-04-07	500	66	34	80	12,2	23	23	Geen	goed	53,6	53,6	6,7		7,8	2		2,0	2,0	2,0	2,0	2,0	2,0
3	75-04-28	1000	65	41	120	10,7	23	23	"	iets	50,2	50,2	5,3		7,8	1		0,2	0,2	0,2	0,2	0,2	0,2
3	75-06-09	2000	65	42	115	10,5	22	22	"	matig	48,8	48,8	5,3		7,8	1		0,3	0,3	0,3	0,3	0,3	0,3
4		0	64	41	112	10,2	22	22	"	sterk	44,5	44,5	17,3		7,6	1		0,3	0,3	0,3	0,3	0,3	0,3
4		0	64	44	112	12,5	22	22	"	"	"	44,5	17,3		7,8	1		0,5	0,5	0,5	0,5	0,5	0,5
4		0	69	39	93	10,8	30	30	Geen	goed	51,6	51,6	3,1		8,3	2		0,6	0,6	0,6	0,6	0,6	0,6
4		160	68	44	80	10,6	22	22	"	iets	50,2	50,2	5,0		8,3	1		0,2	0,2	0,2	0,2	0,2	0,2
4		500	68	45	75	10,0	23	23	"	matig	49,2	49,2	5,0		8,3	1		0,5	0,5	0,5	0,5	0,5	0,5
4		1000	67	44	70	10,1	22	22	"	sterk	45,5	45,5	12,2		8,3	2		0,4	0,4	0,4	0,4	0,4	0,4
4		0	65	42	122	10,5	25	25	"	"	"	45,5	12,2		8,3	2		0,4	0,4	0,4	0,4	0,4	0,4
4		160	68	39	110	11,7	24	24	Geen	goed	48,0	48,0	1,7		7,6	2		0,3	0,3	0,3	0,3	0,3	0,3
4		500	68	44	104	10,4	23	23	"	iets	47,2	47,2	3,6		7,6	1		0,3	0,3	0,3	0,3	0,3	0,3
4		1000	67	43	100	10,0	22	22	"	sterk	46,2	46,2	11,0		7,6	1		0,4	0,4	0,4	0,4	0,4	0,4
4		0	66	42	102	10,0	22	22	"	"	"	42,6	11,0		7,6	2		0,3	0,3	0,3	0,3	0,3	0,3
4		160	65	25	290	5,3	39	39	"	"	"	41,9	14,8		7,6	1		0,6	0,6	0,6	0,6	0,6	0,6
4		500	72	44	75	10,0	22	22	Geen	goed	55,6	55,6	1,4		7,8	2		0,4	0,4	0,4	0,4	0,4	0,4
4		1000	72	43	85	9,2	24	24	"	iets	54,8	54,8	4,0		7,8	1		0,4	0,4	0,4	0,4	0,4	0,4
5		0	71	42	80	9,1	23	23	"	"	"	53,4	4,0		7,8	1		0,4	0,4	0,4	0,4	0,4	0,4
5		160	70	42	82	9,1	23	23	"	sterk	49,2	49,2	11,5		7,8	1		1,6	1,6	1,6	1,6	1,6	1,6
5		500	67	44	115	12,0	24	24	"	"	"	44,8	15,4		7,8	1		1,1	1,1	1,1	1,1	1,1	1,1
5		1000							"	"	"				7,8	1							

BUIS HEEFT DIP.

ONDERWERP : Release for transferred production E10-12GP batch 2
L test and life test results

1. Contents:

Test results given on attached sheets

Sheet no 2 up to and 12 give L test results

Sheet no 13 up to and 16 give lifetest results

2. Summary of results:

a. L test results

1x borderline good on angle X'/X"

1x borderline good on -V_{G1}

1x borderline good on I_f

1x borderline good on angle of sidecontact connection

1x Exc Y outside limits

4x dia over pins too big (repaired in Eindhoven)

The other mechanical and electrical measurements
are satisfactory.

b. Life test

The results are satisfactory

3. Conclusion

The total result is satisfactory.

G. GeEVERS

Copy to Messrs.: Dechering

Menet

Varekamp

Wassenaar

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RAC-84/125106 Heelt

STEMPEL: 504	ONTVANGEN OP:				VOOR:				GEZIEN:				
	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.	ESB.
145	None	> -250	> -250	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
250	"	> -250	> -250	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
351	"	> -250	> -250	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
450	"	> -250	> -250	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
540	"	> -250	> -250	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
Y		> -250	> -250	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12	> 12
R		0	0	0	0	0	0	0	0	0	0	0	0
EISEN		MIN	MAX	X	MIN	MAX	X	MIN	MAX	X	MIN	MAX	X
EENHEDEN		5 P 5 STUKS 100				No Kogt Jensen				No Kogt Jensen			
CONCLUSIE		No Kogt Jensen				No Kogt Jensen				No Kogt Jensen			
CODE NO		L				E 10-12..				E 10-12.. SP.			
TYPE		L				L				L			
PAR PAR PAR SIGN		L				L				L			
BLADEN BLATTER FEUILLES SHEETS		L				L				L			
BLAD BLATT FEUILLE SHEET		L				L				L			

30

3) CONTROLLE CONTROLE
 KONTROLIFE TEST
 30.10.12
 30.10.12
 30.10.12
 30.10.12

STERIEL
 ONTVANGEN OF
 VOOR
 GEZWIJ

MEETING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	

CONTROLLE CONTROLE
 KONTROLIFE TEST
 30.10.12
 30.10.12
 30.10.12
 30.10.12

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RAAR-84/25 102 Heels.

E 10-12..

STEMPEL:		ONTVANGEN OP:				VOOR:				GEZIEN:										
1/2	(V=)	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.	b.s.
1/4	(V=)	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.	avg.
1/2-1/4	(V=)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	(V=)	for	for	for	for	for	for	for	for	for	for	for	for	for	for	for	for	for	for	for
1/4	(V=)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1/4	(V=)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1/4	(V=)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1/4	(V=)	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40
1/4	(MA)	head	head	head	head	head	head	head	head	head	head	head	head	head	head	head	head	head	head	head
1/4	(MA)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1/4	(MA)	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV	CJNV
MEETING		I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄	I ₄
NR. IN RV 6-3-0/403		19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
BUISNUMMER		1 76	185	110	110	95	82	90	88	80	98	98	98	98	98	98	98	98	98	98
		2 48	95	110	110	95	82	90	88	80	98	98	98	98	98	98	98	98	98	98
		3 61	82	90	88	80	98	98	98	98	98	98	98	98	98	98	98	98	98	98
		4 50	95	110	110	95	82	90	88	80	98	98	98	98	98	98	98	98	98	98
		5 40	92	80	80	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
EISEN		MIN	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
		MAX	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
S P 5 STUKS		MIN	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
		MAX	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
EENHEDEN		MIN	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
		MAX	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
CONCLUSIE		14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A	14A

32

CONTOLE - CONTROLE
KONTROLLE - TEST

Voorlopig

PAR
PAR
PAR
SIGN

CODE N.
TYPE

BLADEN
BLATTER
FEUILLES
SHEETS

E 10-12..

BLAD
BLATT
FEUILLE
SHEET

862-V

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R.A.R.-84/25402

Sheet 6

STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:		E 10-12..	
V ₁	(V ₁)	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
V ₂	(V ₂)	adj	adj	adj	adj	adj	adj	adj	adj
V ₃	(V ₃)	7	7	7	7	7	7	7	7
V ₄	(V ₄)	fre	fre	fre	fre	fre	fre	fre	fre
V ₅	(V ₅)	1	1	1	1	1	1	1	1
V ₆	(V ₆)	3	3	3	3	3	3	3	3
V ₇	(V ₇)	0	0	0	0	0	0	0	0
V ₈	(V ₈)	0	0	0	0	0	0	0	0
V ₉	(V ₉)	SJV	SJV	SJV	SJV	SJV	SJV	SJV	SJV
V ₁₀	(V ₁₀)	met	met	met	met	met	met	met	met
<p>METING</p> <p>Spotolife</p> <p>+I -I +II -II</p> <p>NR. IN RV 6-5-0/403 46</p>									
<p>BUISNUMMER</p> <p>1 45 0.7 -1.0 6.5 6.8</p> <p>2 40 0.4 0.7 6.4 6.8</p> <p>3 51 6.4 0.0 6.0 0.9</p> <p>4 50 0.3 0.5 6.2 6.0</p> <p>5 46 0.6 1.2 0.0 6.2</p>									
<p>X</p> <p>K</p> <p>MIN</p> <p>MAX</p> <p>X MIN</p> <p>X MAX</p> <p>R MAX</p> <p>MIN</p> <p>MAX</p>									
<p>EISEN</p> <p>EENHEDEN</p> <p>MIN MAX</p> <p>MIN MAX</p> <p>MIN MAX</p> <p>MIN MAX</p> <p>MIN MAX</p>									
<p>CONCLUSIE</p> <p>362-5</p> <p>E 10-12..</p>									

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CONTROLLE - CONTROLE
KONTROLLE - TEST

Voorlopig

PAR PAR PAR PAR SIGN
BLADEN BLATTER FEUILLES SHEETS
E 10-12..

34

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E. 10-12..

R.A.R. - 24/25001 - 12.11.12.

STEMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:
1/2 (V=) 63 1/4 (V=) 63 1/2 2/3 (KV=) 63 1/2 2/3 (KV=) 63 1/2 2/3 (KV=) 63 1/2 2/3 (KV=) 63 1/2 2/3 (KV=) 63 1/2 2/3 (KV=) 63 1/2 2/3 (KV=) 63	63 63 63 63 63 63 63 63 63	63 63 63 63 63 63 63 63 63	63 63 63 63 63 63 63 63 63
METING 1 45 0.28 2 40 0.29 3 51 4 50 5 40	REMARK "X" 20 REMARK "Y" 29 REMARK "Z" 29	REMARK "X" 20 REMARK "Y" 29 REMARK "Z" 29	REMARK "X" 20 REMARK "Y" 29 REMARK "Z" 29
BUISNUMMER 1 45 0.28 2 40 0.29 3 51 4 50 5 40	927 0.20 9.28 9.31 9.28 9.27 9.51 929 9.20 9.30 9.29 9.29 9.28 9.30	927 9.28 9.29 9.29 9.28 9.28 9.29 9.29 930 9.29 9.30 9.30 9.30 9.29 9.30	927 9.28 9.29 9.29 9.28 9.28 9.29 9.29 930 9.29 9.30 9.30 9.30 9.29 9.31
EISEN MIN. 0.29 MAX. 0.33 X MIN. 0.25 X MAX. 0.28 R MIN. 0.27 R MAX. 0.31	928 9.20 9.01 9.01 9.01 9.01 9.01 902 9.01 9.01 9.01 9.01 9.01 9.01	928 9.20 9.20 9.20 9.20 9.20 9.20 903 9.01 9.01 9.01 9.01 9.01 9.01	928 9.20 9.20 9.20 9.20 9.20 9.20 902 9.01 9.01 9.01 9.01 9.01 9.01
EENHEDEN MIN. 0.25 MAX. 0.33	928 9.20 9.01 9.01 9.01 9.01 9.01	928 9.20 9.20 9.20 9.20 9.20 9.20	928 9.20 9.20 9.20 9.20 9.20 9.20
CONCLUSIE	362-6	362-6	362-6

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R.A.R. - 24/10/12

STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:	
1	45	929	928	929	928	929	928
2	50	929	930	929	930	929	930
3							
4							
5							
X	929	929	930	929	930	929	930
R	903	903	904	903	904	903	904
MIN		0,55		0,55			
MAX							
X MIN							
X MAX							
R MAX							
MIN							
MAX							
EISEN							
EENHEDEN							
CONCLUSIE							

35

CONTROLE - CONTROLE
KONTROLLE - TEST

Voorlobig

CODE N°
TYPE

E10-12..

N.V. PHILIPS GLOEILAMPEN-FABRIEKEN EINDHOVEN NEDERLAND.

862-7

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R.A.R.-84/95103 *Hoof 9*

E 10-12..

GEZIEN:

VOOR:

ONTVANGEN OP:

STEMPEL:

№	(N=)	6.5	6.3	6.3	6.3	6.3	6.3	6.3	6.3	GEZIEN:	VOOR:	ONTVANGEN OP:	STEMPEL:
191	(N=)	oag	oag	oag	oag	oag	oag	oag	oag	6.3	oag		
192-193	(N=)	1	1	1	1	1	1	1	1	800V.	800V.		
194	(N=)	px	px	px	px	px	px	px	px	-15	-15		
195	(N=)	1	1	1	1	1	1	1	1	350V.	350V.		
199	(N=)	3	3	3	3	3	3	3	3				
199	(N=)	R	R	R	R	R	R	R	R				
199	(N=)	40x40	40x40	40x40	40x40	40x40	40x40	40x40	40x40				
199	(N=)	10	10	10	10	10	10	10	10				
199	(N=)	9M	9P	9M	9M	9M	9M	9M	9M				
199	(N=)	35	35	35	35	35	35	35	35				
199	(N=)	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9				
199	(N=)	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2				
199	(N=)	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9				
199	(N=)	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2				
199	(N=)	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0				
199	(N=)	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6				
199	(N=)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9				
199	(N=)	35	35	35	35	35	35	35	35				
199	(N=)	20	20	20	20	20	20	20	20				
199	(N=)	10	10	10	10	10	10	10	10				
199	(N=)	100	100	100	100	100	100	100	100				
199	(N=)	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN				
199	(N=)	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX				
199	(N=)	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN				
199	(N=)	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX				
199	(N=)	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN				
199	(N=)	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX				
199	(N=)	EENHEDEN	EENHEDEN	EENHEDEN	EENHEDEN	EENHEDEN	EENHEDEN	EENHEDEN	EENHEDEN				
199	(N=)	CONCLUSIE	CONCLUSIE	CONCLUSIE	CONCLUSIE	CONCLUSIE	CONCLUSIE	CONCLUSIE	CONCLUSIE				
199	(N=)	362-8	362-8	362-8	362-8	362-8	362-8	362-8	362-8				

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RAA-84/75102 *Alex 10*

E 10-12..

GEZIEN:

VOOR:

ONTVANGEN OP:

STEMPEL:

METING		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		
		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		g_1/g_2		
1		475	473	484	502	423	0.50	0.51	1.26	1.91	8.13	1.79	2.06	1.95	2.10	4.10	2.54	2.92	4.10	2.54	2.92	
2		500	500	505	500	500	0.50	0.50	1.26	1.81	1.91	1.59	1.80	1.76	2.06	4.04	2.20	2.53	4.10	2.20	2.53	
3		505	505	505	505	4.70	0.70	0.70	1.24	1.73	1.89	1.71	1.91	2.06	2.06	4.10	2.13	2.06	4.10	2.13	2.06	
4		505	505	505	505	4.60	0.70	0.70	1.23	0.89	1.94	1.58	2.06	1.59	2.06	4.10	2.68	2.40	4.10	2.68	2.40	
5		505	505	505	505	4.80	0.70	0.70	1.23	1.03	1.64	1.53	2.10	1.76	2.06	4.00	2.94	2.45	4.10	2.94	2.45	
X		505	505	505	505	4.84	0.70	0.70	1.25	1.16	1.82	1.58	2.01	1.83	2.07	4.10	2.50	2.42	4.10	2.50	2.42	
R		505	505	505	505	4.70	0.70	0.70	1.25	0.85	0.85	0.24	0.46	0.22	0.47	0.04	0.01	0.06	0.10	0.01	0.06	
MIN.		4	4	3	3	3	3	3	0.0	0.0	1	1	2.5	1.5	1.5	4	2	2	4	2	2	
MAX.		0	0	6	6	6	6	6	1.5	1.5	4	4	3.5	2.5	2.5	5	3	3	5	3	3	
EISEN																						
S P. 5 STUKS																						
EENHEDEN		PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF

Capacitance at the system.

MA. IN RV 6-3-0/407

CONCLUSIE

362-9.

CONTROLE • CONTROLE
 KONTROLLE • TEST

Voorlopig

CODE N.
 TYPE

E 10-12..

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

32

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R.A.B.-R.V. 15.10.3 *Blauw*

E 10.12.

STEMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:
<p><i>Capacitoren behoren alle naar systeem</i></p> <p><i>9,5/195" 7,5/195" 8,0/195" 8,5/195" 9,0/195" A B</i></p>			
METING			
1 45 205 7,5 2,2 2,1 2,4 4,6 -4,2			
2 50 190 8,0 2,0 2,5 10,5 0,8 -3,2			
3 51 265 8,0 2,0 5,7 9,6 1,0 -3,9			
4 50 21 6,8 2,8 2,8 5,4 4,0 -2,6			
5 50 175 6,2 3,2 4,1 3,8 4,5 0,3			
X			
R			
MIN	9,0 2,1 2,2 2,0 6,1 2,8 4,2		
MAX	3 1,5 1,5 4 1 4		
MIN	10 0 0 16 4 12		
MAX			
X MIN			
X MAX			
R MIN			
R MAX			
MIN			
MAX			
EISEN			
100			
5 P 5 STUKS			
EENHEDEN			
100 P 5			

CONCLUSIE
 Cap A = (C₁'/V₁') - (C₂'/V₂')
 Cap B = (C₁'/V₁') - (C₂'/V₂')
 262-10.

E. 10-12.

P.P. 04 / 15 102 sheet 12

GEZIEN:

VOOR:

ONTVANGEN OP:

STEMPEL:

METING	1	2	3	4	5	X	R	MIN	MAX	MIN	X	R	MIN	MAX
NR. IN RV 6-3-040	357	358	357	357	355	356.1	355	352	366	352	352	352	352	366
	594	591	591	591	591	590.8	591	592	609	595	595	595	595	609
	865	861	861	861	861	860.8	861	867	905	875	875	875	875	905
	994	991	991	991	991	990.8	991	995	1015	995	995	995	995	1015
	1205	1202	1202	1202	1202	1201.6	1202	1205	1235	1215	1215	1215	1215	1235
	282	282	282	282	282	281.9	282	285	305	285	285	285	285	305
	82.5	82.8	82.7	82.7	82.7	82.7	82.7	82.5	85.5	82.5	82.5	82.5	82.5	85.5
	12	14	16	14	12	13.6	13.6	4	10.5	12	12	12	12	10.5
	98	98.8	98.6	98.6	98.6	98.6	98.6	98.5	97.5	98	98	98	98	97.5
	280	280	280	280	280	279.9	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285
	280	280	280	280	280	280	280	280	285	280	280	280	280	285

CONCLUSE

865-1.

E. 10-12 . .

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND

39

KWALITEITS-LABOR. ORIUM PROFESSIONELE KATODESTRAALBU.
LEVENSDUUR OSCILLOGRAAFBUIZEN

Type : E10-12GP	Instellingen brandraam, nr. 20	Type: E10-12				GEWENSTE LEVENSDUUR: 2000 hours			
Proefnr. : 50172	Buisnr. pos.	V _F	V _{Kanon}	V _{G4}	V	Afwijking t.o.v. normale productie:			
Aantal : 5	1 45	9	5,7	V	1000	BRIVE BATCH 2.			
Datum : 75-03-15	2 48	10	6,3	V	3				
Inzender: Kwaliteitslab.	3 51	11	6,3	V	10				
Poederp.	4 50	12	7,0	V	40 x 40 mm				
Pompvoorschr.:	5		V	V+K/-F	220				
Brandvoorschr.:	6		V	V-K/+F	V				
Fabr. datum : Febr. '75									

Mets-nr.	aantal brand uren	Eis	-Vg1 bij 10 µA I _L	-Vg1 bij 10 µA I _L	Kat. opp.	I _k bij 10 µA I _{Nav.}	I _L bij 10 µA I _{Nav.}	Mod. V _{g1} bij 10 µA I _{Nav.}	Kath. erf.	Gas kruis	Scherm kwal.	Hel. der held	Held. Δ	Scherm opl.	Lek-stroom	Gas	Isolaties				Opmerkingen.
																	+K/-F	-K/+F	I	II	
75-03-17	0	Eenheid	25-85	not.	not.	not.	not.	not.	not.	geen	not.	37,0	not.	not.	25-17	34	25	25	3	3	
75-03-24	160		65	44	125	13,5	13	13		Geen	goed	42,9	%	V	7,2	2	0,4	0,6	0,9	0,5	1,2-2,0
75-04-07	500		65	45	110	13,5	19	19		"	iets	38,9	9,3		7,2	1	0,4	0,6	0,7	0,6	0,9-1,2
75-04-28	1000		65	46	115	13,0	19	19		"	matig	37,6	12,4		7,2	1	0,2	0,4	0,6	0,7	0,9-0,9
75-06-09	2000		65	45	118	13,0	20	20		"	sterk	32,3	24,7		7,2	1	0,2	0,4	0,5	0,4	0,7-1,2
	0		65	40	122	10,5	27	27		"	"	32,3	24,8		7,2	1	0,8	1,9	1,7	0,6	1,8-3,6
	160		68	46	95	14	20	20		Geen	goed	40,0	2,6		9,2	2	0,5	1,0	1,5	0,6	1,8-2,5
	500		66	49	80	15	19	19		"	iets	38,9	2,6		9,2	1	0,2	0,4	0,5	0,6	0,8-0,6
	1000		67	47	85	14	20	20		"	matig	37,9	5,2		9,2	1	0,2	0,4	0,5	0,6	0,8-0,6
			67	48	86	13,7	19	19		"	sterk	32,7	18,2		9,2	1	0,2	0,4	0,6	0,5	1,0-1,4
			67	47	95	11,0	22	22		"	"	32,7	18,2		9,2	1	0,2	2,7	2,3	0,8	2,5-4,3
	0		61	42	82	14,7	21	21		Geen	goed	41,9	21,8		11,5	2	0,4	0,7	0,6	0,6	0,8-1,2
	160		61	41	80	12,5	21	21		"	iets	38,3	2,6		11,5	1	0,2	0,3	0,4	0,5	0,7-0,6
	500		61	41	90	12	21	21		"	matig	37,0	11,7		11,5	1	0,4	1,2	1,6	0,6	1,0-3,4
	1000		60	42	92	12,1	20	20		"	sterk	33,0	21,3		11,5	1	0,3	0,4	0,6	0,6	0,8-0,7
	0		60	39	130	11,0	23	23		"	"	35,0	21,8		11,5	1	0,5	1,1	1,1	0,7	1,8-2,0
	160		60	37	95	13,5	22	22		Geen	goed	42,2	5,7		12,0	2	0,2	0,3	0,8	0,6	1,2-1,8
	500		60	39	90	12,0	20	20		"	iets	39,8	8,6		12,0	1	0,2	0,4	0,4	0,6	0,7-0,5
	1000		60	40	92	12,0	19	19		"	matig	38,6	8,6		12,0	1	0,2	0,5	0,8	0,7	1,1-0,4
	0		60	41	90	11,8	19	19		"	sterk	34,3	18,7		12,0	1	0,4	0,4	0,6	0,6	0,9-0,9
	160		58	37	115	10,5	23	23		"	"	34,3	18,7		12,0	1	0,4	0,9	0,9	0,7	1,2-1,9

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.163

3-1

75-09-16

ONDERWERP : Release for transferred production B10-12GH batch 3

Lifetest results

a) 0 hours results

tube number 4 has a bad modulation in system I and
system II

After 160 hours both systems are good on modulation

b) 1000 hours results

The results are satisfactory

c) 2000 hours results

Tube number 2 has a bad modulation in system I

d) Total results

The total results are satisfactory.

G. Geevers

Copy to Messrs.: Menet

Varekamp

Wassenaar

H. Slomig.

KWALITEITS-LAB. ATORIUM PROFESSIONELE KATODESTRAALBUZEN
LEVENSDUUR OSCILLOGRAAFBUZEN

Type : E 10-120h,
Proefnr. : 50190

METEN EN BRANDEN VOORSCHRIFT d.d.: 75-02-38 Type: E 10-12
Gewenste levensduur: 2000 h.m.

Instellingen brandraam, nr. 20
Speciale metingen of wensen:

buis- nr.	meet- datum	aantal brand uren	Eis 0 h 1000h Eenheid	-Vg1 bij 10 µA I _L	-Vg1 not.	Ik bij 10 µA I _L	not.	Kat. opp.	I _k not.	I _L bij 25V. Mod.Vg1 nav.	Mod. Vg1 bij 10 µA Mod.Vg1 nav.	Kat. eff.	Gas- kruis	Scherm kwal.	Hel- der heid	Held. Scherm opt.	Lek- stroom	Gas	Isolaties				Opmer- kingen.	
																			+K/-F	-K/+F	I	II		III
1	75-06-20	0	0 h	65	25-05	78	not.	not.	not.	17,0	20	not.	not.	goed	41,2	not.	8,1	4	0,9	0,6	1,4-0,7	1,7-0,5		
75-06-26	160	500	1000h	65	25-05	80	not.	not.	not.	12,5	21	not.	"	lets	40,3	2,2	8,1	1	0,2	0,3	0,5-0,1	0,7-0,9		
75-07-31	1000	500	1000h	64	25-05	76	not.	not.	not.	13,5	21	not.	"	matig	35,8	13,1	8,1	1	0,1	0,1	0,5-0,6	0,7-0,5		
75-08-11	2000	500	1000h	63	25-05	76	not.	not.	not.	11,0	19	not.	"	"	34,9	15,3	8,1	1	0,2	0,3	0,7-0,9	1,2-1,1		
2 GH	0	1000	1000h	63	25-05	102	not.	not.	not.	12,0	22	not.	not.	goed	48,3	10,1	9,1	4	0,5	0,5	0,9-0,8	1,2-1,7		
	160	500	1000h	61	25-05	120	not.	not.	not.	10,0	24	not.	"	lets	46,7	5,7	9,1	1	0,6	0,9	1,9-0,7	2,0-1,9		
	500	1000	1000h	61	25-05	108	not.	not.	not.	13,0	21	not.	"	matig	45,1	8,9	9,1	1	0,3	0,3	0,7-0,7	0,8-0,9		
3 GH	0	1000	1000h	59	25-05	NTM	not.	not.	not.	4,2	NTM	not.	"	"	44,5	10,1	9,1	1	0,3	0,4	0,8-1,0	1,2-1,0		
	160	500	1000h	63	25-05	95	not.	not.	not.	14,5	21	not.	not.	goed	48,5	10,1	6,3	5	0,3	0,3	0,8-0,9	1,0-1,1		
	500	1000	1000h	63	25-05	100	not.	not.	not.	11,5	23	not.	"	lets	46,4	4,3	6,3	1	0,5	0,6	0,7-0,7	0,9-1,2		
4 GH	0	1000	1000h	63	25-05	102	not.	not.	not.	11,0	23	not.	"	matig	45,8	5,6	6,3	1	0,3	0,3	0,5-0,6	0,7-0,5		
	160	500	1000h	63	25-05	95	not.	not.	not.	12,0	21	not.	"	"	42,9	11,6	6,3	1	0,7	2,3	2,0-1,3	2,3-3,4		BUIS HEeft DDP.
	500	1000	1000h	60	25-05	NTM	not.	not.	not.	0,6	NTM	not.	not.	goed	NTM		7,5	20	0,5	0,3	0,7-0,7	0,9-1,0		
5 GH	0	1000	1000h	60	25-05	225	not.	not.	not.	7,0	32	not.	"	lets	45,4		7,5	5	3,1	0,7	0,7-0,7	0,9-0,9		
	160	500	1000h	59	25-05	110	not.	not.	not.	12,0	21	not.	"	matig	45,8		7,5	2	24,5	2,5	1,0-0,7	1,1-1,5		
	500	1000	1000h	59	25-05	112	not.	not.	not.	13,5	20	not.	"	"	42,9		7,5	1	0,8	0,7	0,9-1,1	1,3-1,0		
	160	500	1000h	67	25-05	98	not.	not.	not.	13,0	22	not.	not.	goed	47,2		7,0	8	0,2	0,3	0,6-0,7	0,9-0,7		
	500	1000	1000h	67	25-05	86	not.	not.	not.	15,0	22	not.	"	lets	46,1	2,3	7,0	2	0,3	0,4	0,5-0,6	0,7-0,7		
	160	500	1000h	68	25-05	85	not.	not.	not.	13,5	22	not.	"	matig	45,1	4,4	7,0	1	0,3	0,7	0,8-0,7	1,1-1,5		
	500	1000	1000h	68	25-05	85	not.	not.	not.	14,0	21	not.	"	"	44,5	5,7	7,0	1	0,5	0,4	0,8-1,1	1,2-1,0		
6																								

BRIVE BATCH 3

ONDERWERP : Release for transferred production Q13-110 GU/BA

1) See reports:

RAR-84/75.067 content test II + L test results
batch 1
/75.092 content test II + L test results
batch 2
/75.094 content test II + L test results
batch 3

RAR-84/75.100 content test II results batch 4
/75.129 content test II results batch 5
/75.139 content test II results batch 6
/75.140 content test II results batch 7
/75.141 content test II results batch 8
/75.142 content test II results batch 9

2) Summary of test II results

Received 9 batches(145 tubes)

66 Tubes showed scratches or silicat stains on the faceplate and has been repaired in Eindhoven.

11 tubes are rejected on screenquality

9 tubes are rejected on glassquality

1 tube is rejected on bruise

2 tubes are rejected on hole in neck after repair on stray emission

7 tubes are repaired on stray emission

Results after repair: 122 tubes are good out of 145 = 84%

23 Tubes are rejected of which 20 tubes on screen or glassquality.

3) Summary of L-test results

Batch 1: 3 tubes a rather high value of eccentricity (but within limits)

4 tubes colour point rather yellow

1 tube colour point rather blue

The remaining electrical and mechanical measurements are good.

Batch 2: The electrical and mechanical measurements are good

Batch 3: 2 tubes eccentricity borderline(within limits)
The remaining electrical and mechanical measurements are good.

ONDERWERP :

4) Conclusion

From the results we conclude that there is no objection against release of the CRT.

Q13-110GU/BA for production and measuring in Brive, with the exception that the screen and glassquality has to be reinspected in Eindhoven.

Until Brive has the disposal over a flying spot scanner suitable for this type.

G.Geevers

Copy to Messrs. : Bru
Menet
Varekamp
Wassenaar
Peper
Modderman

Approved K.Wassenaar

ONDERWERP : Release for transferred production 13-110GU batch 1
test II results and L-test results

Test II results:

3x tubes have stray emission after repair in Eindhoven good
2x tubes have scratches after repair in Eindhoven good
1x tube has a grey spot 0.48 x 0.24 mm tube is rejected
1x tube has an imperfection of the screen glass tube is rejected.

Conclusion: measured 10 tubes
good after repair 8 tubes
rejected 2 tubes

L test results:

3 tubes have a rather high value of eccentricity (but within limits)
The remarks of the test II result are also concerning to the L test.
The colour point of 4 tubes is rather yellow and of one tube rather blue, just outside tolerances, the range has to be improved.

Remark: Very much care must be taken with the handling of the tubes in view of scratches.
The general impression except the colour is good.

G. Geervers

Copy to Messrs.: Dechering
Menet
Varekamp
Wassenaar

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 CAR - 84/35069 Head 2

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STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:	
E 3 B		75-08-17		L. Loog		Q 13-110..	
Vc (V ²)	7	7	7	7	7	7	7
If (mm ²)							
Vg (V)							
Vgg (V)							
Zage (mm)							
Pictuare							
Focus							
Visol (V)	175	470	175				
METING							
Remark (T)	7	2	2	2	2	2	2
Diagram (T)	F3	F4	F5	F1	F1	F1	F1
1	2	0	0.5	0.5	2.80	3.54	3.54
2	19	0	0	0.5	2.91	3.72	3.72
3	25	0	0.5	0.5	2.74	3.72	3.72
4	23	0	0.5	0.5	2.68	3.80	3.80
5	10	0	1.0	1.5	2.80	3.80	3.80
X		0	0.5	0.7	2.99	3.72	3.72
R		0	1.0	1.0	2.74	3.80	3.80
MIN.							
MAX.							
X MIN.							
X MAX.							
R MAX.							
MIN.							
MAX.							
EENHEDEN	MA	MA	MA	MA	PF	PF	PF
CONCLUSIE:	* after repair good.						

CONCLUSIE: * after repair good.

CONCLUSIE: * grey dot 0.10 x 0.14. reject

(T) = RV 6-4-0/406

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 R.R.E.-24/25-067 11-00-3

STEMPEL:		ONTVANGEN OP:			VOOR:		GEZIEN:	
Wt	(1:10)	300	300	300	6,3	6,3	6,3	
Tf	(mA ^{1/2})	Body	Body	Body	Body	Body	Body	800
Wt	(%)	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Wage	(V ^{1/2})	10	10	10	10	10	10	10
Tage	(MA ^{1/2})	for	for	for	for	for	for	for
Pictuure		for	for	for	for	for	for	for
Focuss		for	for	for	for	for	for	for
METING								
Remark (T)								
BUISNUMMER								
1	2	3	4	5				
MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
EISEN								
EENHEDEN								
CONCLUSIE								

(T) = RV-64-0/906.

CONCLUSIE 1 outside according to cart. special with. Ebalow
 2. Filamentalen connector with cathode holder otherwise dimensioned.

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REPR. 84/75067 Had

913-110

STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:	
1/2	(V=1/2)	300	300				
1/2	(MA=1/2)	ady					
1/2	(V=)	25					
1/2	(KV=)	50					
1/2	(MA=)	200					
1/2		for					
METING		life	life	centr	centr	life	life
		down	down	up	up	down	down
		up	up	down	down	up	up
		13	13	13	13	13	13
		F1	F1	F1	F1	F1	F1
Buisnummer		1	2	3	4	5	
		14	25	21	23	10	
		15,8	15,8	15,0	15,8	15,8	
		15,0	15,0	13,6	15,0	15,0	
		16,7	16,7	16,1	16,7	15,6	
		17,3	17,3	16,5	17,3	15,6	
		15,1	15,1	10,0	15,1	14,3	
		0,8	0,8	0,8	0,8	0,8	
		3,7	3,7	3,7	3,7	3,7	
		MIN.	MIN.	MIN.	MIN.	MIN.	
		MAX.	MAX.	MAX.	MAX.	MAX.	
		X MIN.	X MIN.	X MIN.	X MIN.	X MIN.	
		X MAX.	X MAX.	X MAX.	X MAX.	X MAX.	
		R MIN.	R MIN.	R MIN.	R MIN.	R MIN.	
		R MAX.	R MAX.	R MAX.	R MAX.	R MAX.	
EISEN		100%	100%	100%	100%	100%	100%
EENHEDEN		1/100mm	1/100mm	1/100mm	1/100mm	1/100mm	1/100mm
CONCLUSIE:							

CONCLUSIE: 362-3

CODE N. 913-110

TYPE

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

22000 529 8

98294

(7) = RV-6-4-2406

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RAR-04/3567 H.29.5

Q13-110 94

STEMPEL :	ONTVANGEN OP :	VOOR :	GEZIEN :																																																																																										
METING																																																																																													
<p>№. in RV 6-3-0/497</p> <table border="1"> <tr><td>1</td><td>21</td><td>336,5</td><td>127</td><td>115,5</td><td>36,0</td><td>112,5</td><td>29,5</td><td>29,5</td><td>10/100</td></tr> <tr><td>2</td><td>19</td><td>310</td><td>136,6</td><td>112,0</td><td>26,0</td><td>117</td><td>29,5</td><td>-</td><td></td></tr> <tr><td>3</td><td>25</td><td>337,1</td><td>126,5</td><td>113,4</td><td>26,9</td><td>116,5</td><td>29,5</td><td>-</td><td></td></tr> <tr><td>4</td><td>23</td><td>338,5</td><td>126,9</td><td>113,7</td><td>26,9</td><td>115,5</td><td>27,5</td><td>-</td><td></td></tr> <tr><td>5</td><td>4</td><td>319,5</td><td>124,6</td><td>112,2</td><td>27,1</td><td>118</td><td>29,5</td><td>-</td><td></td></tr> <tr><td>X</td><td></td><td>317,1</td><td>126,6</td><td>112,3</td><td>26,9</td><td>116,9</td><td>29,5</td><td>-</td><td></td></tr> <tr><td>R</td><td></td><td>4</td><td>9,5</td><td>9,9</td><td>2,2</td><td>2,5</td><td>0</td><td>-</td><td></td></tr> <tr><td></td><td>MIN.</td><td>329</td><td>124</td><td>10,0</td><td>25,2</td><td>112,5</td><td>24</td><td>-</td><td></td></tr> <tr><td></td><td>MAX.</td><td>347</td><td>130</td><td></td><td>27,8</td><td>122,5</td><td>36</td><td>-</td><td></td></tr> </table>	1	21	336,5	127	115,5	36,0	112,5	29,5	29,5	10/100	2	19	310	136,6	112,0	26,0	117	29,5	-		3	25	337,1	126,5	113,4	26,9	116,5	29,5	-		4	23	338,5	126,9	113,7	26,9	115,5	27,5	-		5	4	319,5	124,6	112,2	27,1	118	29,5	-		X		317,1	126,6	112,3	26,9	116,9	29,5	-		R		4	9,5	9,9	2,2	2,5	0	-			MIN.	329	124	10,0	25,2	112,5	24	-			MAX.	347	130		27,8	122,5	36	-		<p> <i>Nieuw</i> <i>Wolford Luxemburg</i> <i>Mexico</i> <i>King's Lane</i> <i>Dierckx Don concert</i> <i>Arlene Maherson</i> </p>		
1	21	336,5	127	115,5	36,0	112,5	29,5	29,5	10/100																																																																																				
2	19	310	136,6	112,0	26,0	117	29,5	-																																																																																					
3	25	337,1	126,5	113,4	26,9	116,5	29,5	-																																																																																					
4	23	338,5	126,9	113,7	26,9	115,5	27,5	-																																																																																					
5	4	319,5	124,6	112,2	27,1	118	29,5	-																																																																																					
X		317,1	126,6	112,3	26,9	116,9	29,5	-																																																																																					
R		4	9,5	9,9	2,2	2,5	0	-																																																																																					
	MIN.	329	124	10,0	25,2	112,5	24	-																																																																																					
	MAX.	347	130		27,8	122,5	36	-																																																																																					
EISEN	S. P. 5 STUKS	MIN.																																																																																											
EISEN	S. P. 5 STUKS	MAX.																																																																																											
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EISEN	MAX.																																																																																												
EENHEDEN																																																																																													

CONTOLE - CONTROLE / KONTROLLE - TEST

CONCLUSIE

PAR PAR PAR SIGN

BLADEN BLATT FEUILLES SHEETS

BLAD BLATT FEUILLE SHEET

CODE Nr. Q13-110..

TYPE

52

N.V. PHILIPS' GLOEILAMPENFABRIEKEN EINDHOVEN NEDERLAND



GEGEVENS

Buistype 913-11094.
 Proefnr. BRIVE BATCH 1.
 Codenr. poeder
 Fabr. dat.
 Opmerkingen

Helderheid

Held. in NIT		DHS
Buisnr.	25kv 10mA.	kv
1		
2		
3		
4		
5		
\bar{X}		
R		
Eis min.	65	
Eis max.		

Schermkwaliteit

Buisnr.	25kv 10mA	SCANNER.
1		
2		
3		
4		
5		

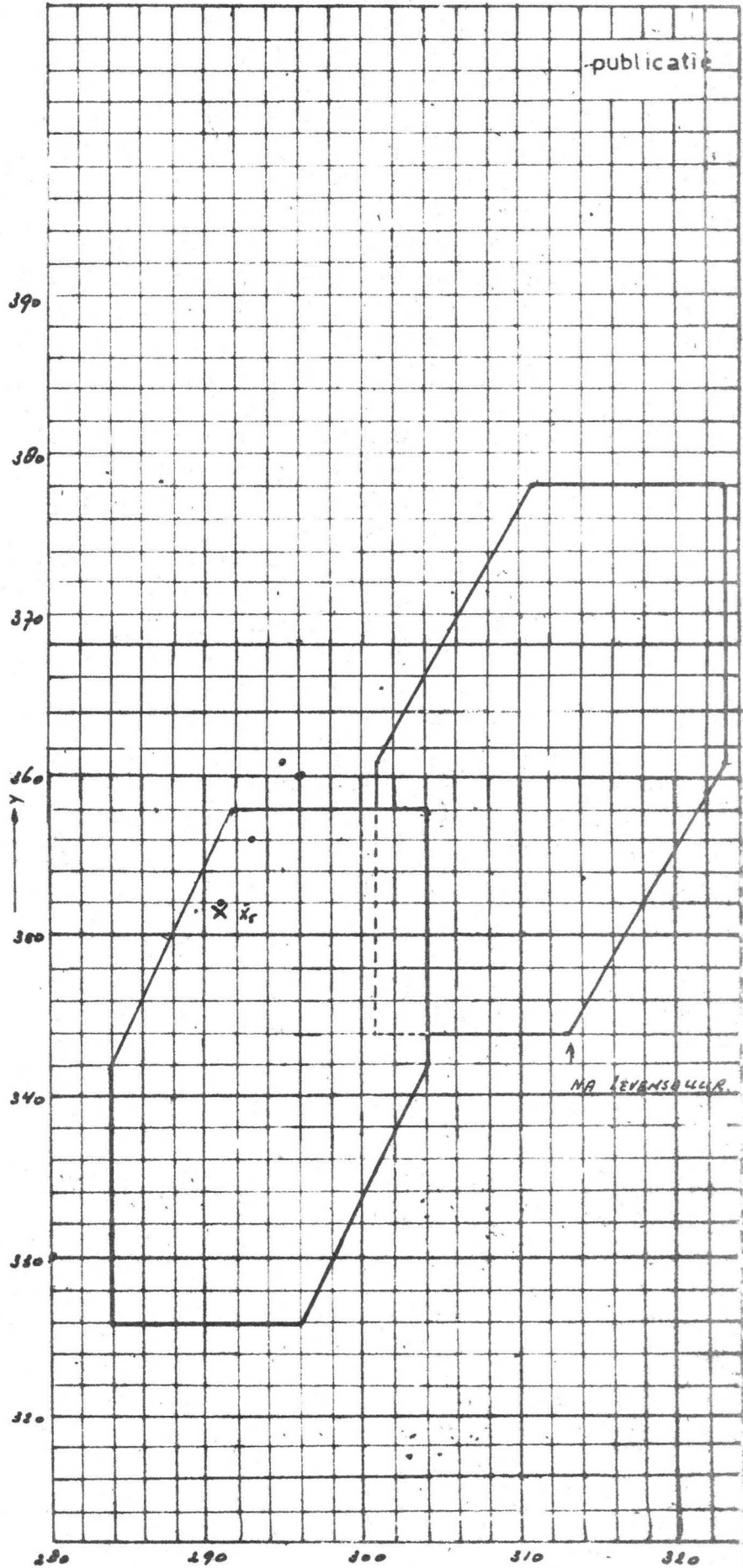
Nalichten

Nalichttijd in M. sec.

Buisnr.	37%	1%	0,1%
1			
2			
3			
4			
5			
\bar{X}			
R			
Eis min.			
Eis max.	100	1000	

Kleurpunt

Buisnr	X1	Y1	X2	Y2
1				
2				
3				
4				
5				
\bar{X}				
R				
Eis min.				
Eis max.				



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30-3-71
 29-2-72

BRIGHTNESS $f(V_a)$.
HELDERNID $f(V_a)$

$I_a = 10 \mu A$.
RASTER = 70×70 MM.

HELDERNID
 $f(\text{cd/cm}^2)$

150

130

110

90

70

50

30

10

0

5

10

15

20

25

V_a (kV)

10-25

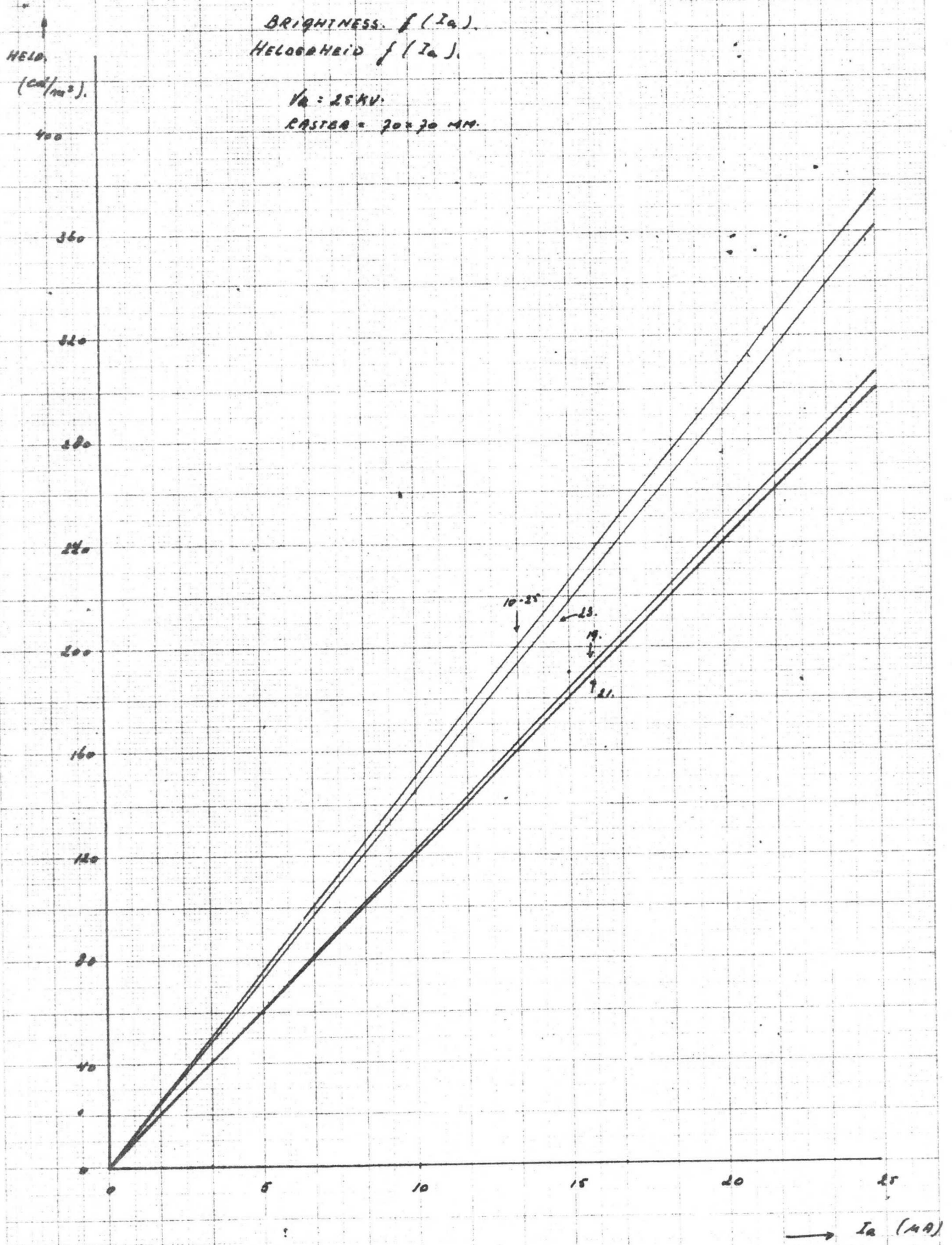
185

19

17

31

$$I = \frac{10}{49} = 0,2 \mu A/cm^2$$



$$\frac{25 \mu A}{49 \text{ cm}^2} = 0.5 \mu A / \text{cm}^2$$

I_a vs $(-V_g)$

$V_a = 25$ KV.

I_a (mA)

2000

1800

1600

1400

1200

1000

800

600

400

200

0

70

60

50

40

30

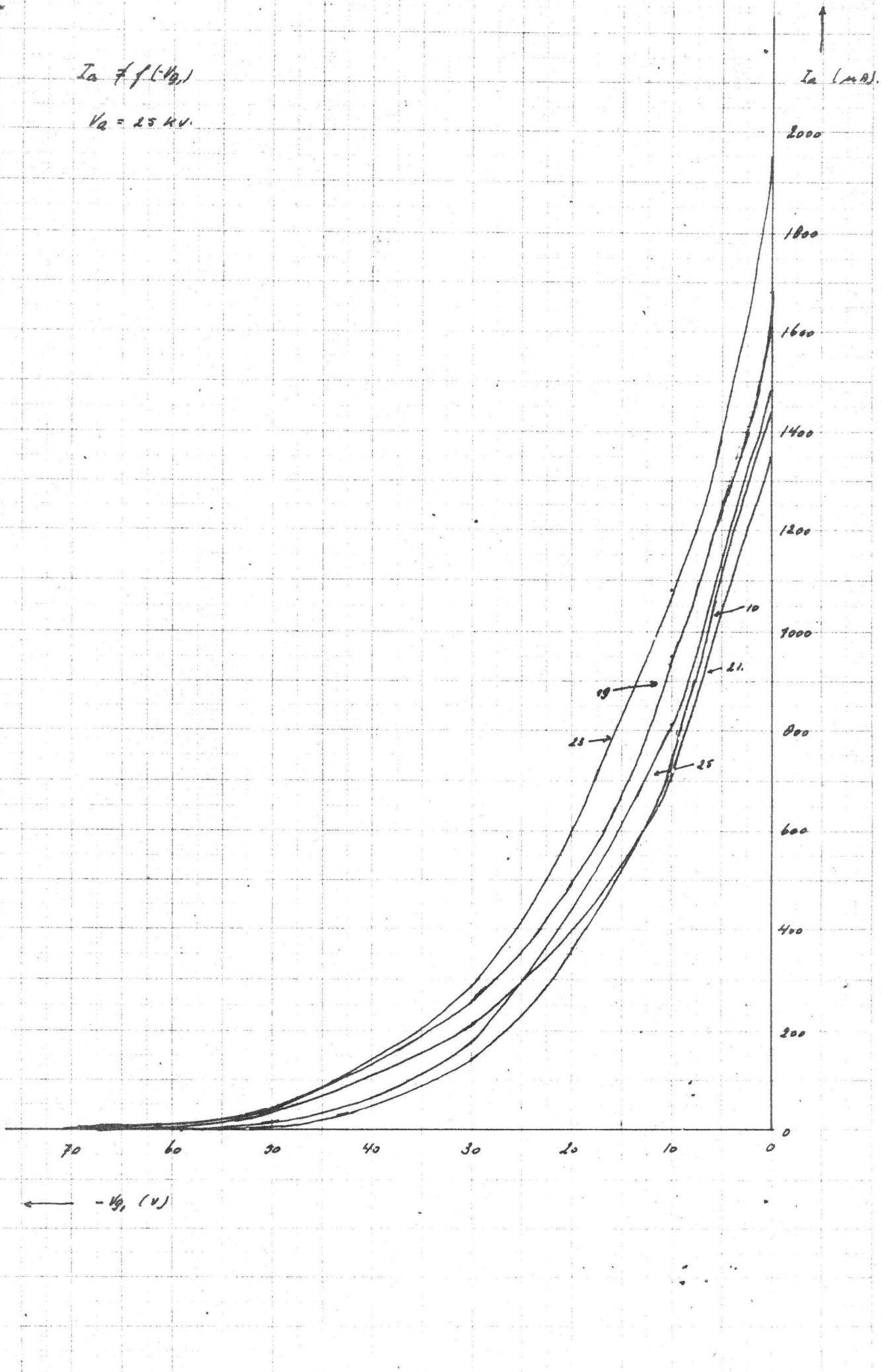
20

10

0

$-V_g$ (V)

19
23
10
21
25



ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.092

5 -1

75-06-03

ONDERWERP : Release for transferred production Q13-110GU batch 2
Test II results and L test results

Test II results:

5x tubes have stray emission after repair good
15x tubes have scratches or silicat stains on
the faceplate, after repair in Eindhoven good.
1x tube stain in powder rejected
14x good.

Conclusion : measured 35 pieces
good after repair 34 pieces
rejected 1 piece

L test results

The electrical and mechanical measurements are good.

Conclusion: The results are satisfactory
More cautions must be taken due to scratches
All tubes should be controlled before delivery.

The colourpoint is good.

Remark: The X-ray warning poster is forgotten by some tubes .

G.Geevers

Copy to Messrs.: Dechering
Menet
Varekamp
Wassenaar

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R.A.R.-84/15092 sheet 2

Q 13-11094

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STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:	
№	(V ^o)	№	(V ^o)	№	(V ^o)	№	(V ^o)
IF	(V ^o)	7	7	300	300	300	300
Vg1	(V ^o)			advj	advj	advj	advj
Vg2	(V ^o)			30	25	25	25
Tage	(V ^o)			R.T.M.V. naar E.I.M.V.	advj	advj	advj
Picture				R	R	R	R
Focus				advj	advj	advj	advj
Visoi.	(V ^o)	175	450	175	11053	11053	11053
METING							
Remont (T)		7	2	7	2	2	2
Diagram (T)		F3	F4	F5	F5	F5	F5
Buisnummer		1 62	0,1	0,1	2,75	3,02	3,02
		2 81	0,1	0,1	2,84	3,46	3,46
		3 69	0,1	0,1	2,72	3,92	3,92
		4 60	0,1	0,1	2,84	3,00	3,00
		5 60	0,1	0,1	2,80	3,02	3,02
\bar{X}		0	0	0	2,99	3,06	3,06
R		0	0	0	0,12	0,16	0,16
EISEN:		MIN.	3	46	20	5	0
		MAX.	3	46	20	5	0
		\bar{X} MIN.					
		\bar{X} MAX.					
		R MAX.					
		MIN.					
		MAX.					
EENHEDEN		MA	MA	MA	MA	PF	PF
CONCLUSIE:							

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REAR-84/2092 sheet 3

STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:	
Wt	(l^2/m^2)	300	300	6.3	6.3		
Tc	(mA^2/s)	adj	adj	adj	adj	800	800
Wgt	(l^2)	2.5	2.5	2.5	2.5	adj	adj
Wgt2	(l^2/s)	2.5	2.5	2.5	2.5	2.5	2.5
Togel	(MA^2)	10	10	10	10	10	10
Picture		port	port	port	port	port	port
Focus		for	for	for	for	for	for
METING		Bridgman	Bridgman	af Ferguson	af Ferguson	Coloursprint	Coloursprint
Remark (T)		94-MA-88-NE	88-NE	6%	1%	X	Y
af Ferguson (T)		5-14	5-14	5-15		5	5
BUISNUMMER		F1	F1	F1		F1	F1
		180				0.291	0.292
		185				0.290	0.293
		130				0.289	0.290
		125				0.290	0.292
		10				0.001	0.003
EISEN		ea/1m ²	ea/1m ²				
EENHEDEN		ea/1m ²	ea/1m ²				
CONCLUSIE		1 outside approx to cath. special with. Ebalours					
		2. Kladdecelen connected with cathode unless otherwise denominated.					

CONCLUSIE 1 outside approx to cath. special with. Ebalours
 2. Kladdecelen connected with cathode unless otherwise denominated.

(T) = RB64-0/406.

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RAA-84/17092 sheet 4

Q13-110

STEMPEL	ONTVANGEN OP	VOOR	GEZIEN
Total lengte	Nedemia		
	Wesfall Nedemia		
	Nedemia		
	King's Cone		
	Diverse 204 connext		
	Bestele mebestem.		

METING

NR. IN RV 6-3-0/407

BUISNUMMER

1	62	386,5	126,4	113,1	36,7	115,5	30,5	afraad
2	71	336,5	126,0	112,5	36,7	115,5	31,0	"
3	69	386	126,6	112,0	37,0	114,5	26,5	"
4	60	386,5	126,3	112,4	26,0	112,5	30,5	"
5	60	336,5	126,5	112,8	27,0	115,5	30,5	"
X		386,4	126,5	112,6	26,8	110,3	30,8	
R		0,5	0,5	1,1	0,3	1	1,0	

EISEN
 MIN 329 124 108 35,2 112,5 24
 MAX 397 130 37,8 122,5 36
 X MIN
 X MAX
 R MAX
 MIN.
 MAX

EENHEDEN

mm mm mm mm mm mm mm mm

CONCLUSIE

363-1.

Q13-110..

RAR-PV/75092 sheet 5

SCHEER

GEGEVENS

Buistype Q 18-11094.
 Proefnr. BRIVE BACH 2
 Codenr. poeder
 Fabr. dat.
 Opmerkingen

Helderheid

Held. in NIT

DHS

Buisnr.	25kv 10mA	KV
1		
2		
3		
4		
5		
X		
R		
Eis min.	60	
Eis max.		

Schermkwaliteit

Buisnr.	25kv 10mA	SCANNER
1		
2		
3		
4		
5		

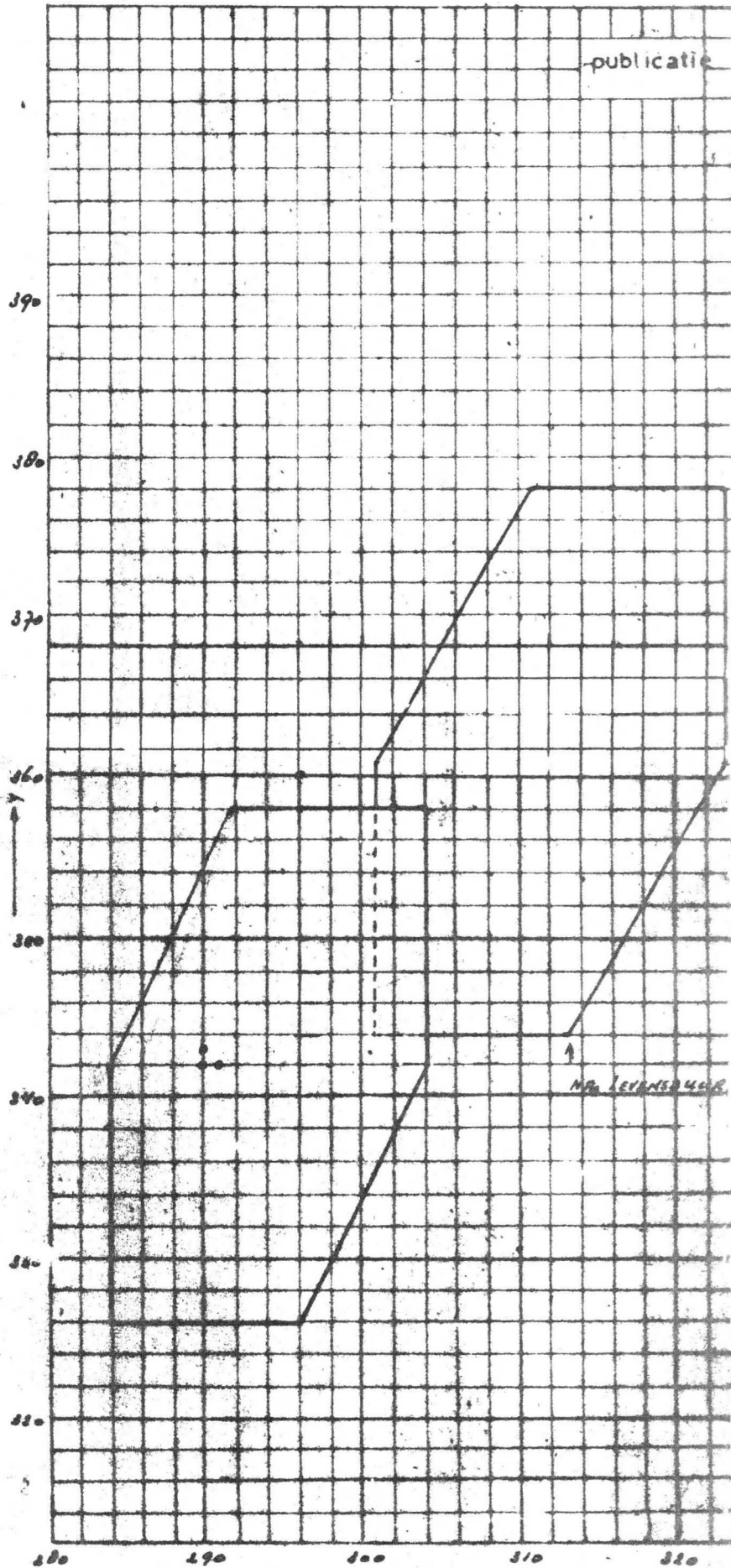
Nalichten

Nalichttijd in μ sec.

Buisnr.	37%	1%	0.1%
1			
2			
3			
4			
5			
X			
R			
Eis min.			
Eis max.	100	1000	

Kleurpunt

Buisnr.	X1	Y1	X2	Y2
1				
2				
3				
4				
5				
X				
R				
Eis min.				
Eis max.				



publicatie

NO. LEVERING 4500

29-2-72

61

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.094

4-1

75-05-29

ONDERWERP : Release for transferred production Q13-110BA batch 3
Test II results and L test results

Test II results:

Received 10 pieces
2 pieces good

- 3 tubes have scratches, after repair in Eindhoven good.
- 1 Tube has stray-emission after repair in Eindhoven good.
- 2 Tubes have black dots, rejected, (used for L test)
- 1 Tube has hole in neck, after repair on stray emission
- 1 Tube has an imperfection of the screenglass (used for L test)

Conclusion: good after repair 6 tubes
bad after repair 1 tube
total rejected 4 tubes

L test results:

2 Tubes eccentricity borderline but within tolerances.
The other electrical and mechanical measurements are good.

G. Geervers

Copy to Messrs.: Dechering
Mene t
Varekamp
Wassenaar

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RAP-04/19094 sheet 1

Q 13-110 BA

STEMPEL		ONTVANGEN OP		VOOR		GEZIEN			
Vf	(V ²)	7	7	7	7	6.3	6.3	6.3	6.3
IF	(V ²)								
Vg1	(V ²)								
Vg2	(V ²)								
Zage	(V ²)								
Picturae	(V ²)								
Focus	(V ²)								
Viool	(V ²)	175	450	175	175				
METING									
Remark (T)									
Diagram (T)									
Buisnummer									
X									
R									
MIN.									
MAX.									
X MIN.									
X MAX.									
R MIN.									
R MAX.									
EENHEDEN									
CONCLUSE									

CONTRÔLE - CONTROLE
KONTROLLE - TEST

VOORLOPIG

Q 13-110..

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

362-1

(T) = RV 6-4-0/406

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RAR. 84/25094 sheet 2

Q 13-110 BA

STEMPEL:		ONTVANGEN OP:			VOOR:		GEZIEN:	
Wf	(V=1 ^m)	300	300	6.3	6.3			
IE	(mV ^{1/2})	Body	Body	adj	adj	800	800	adj
Hg	(V)	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Vage	(KV)	10	10	10	10	10	10	10
Tage	(MV)	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Picture		spot	spot	spot	spot	spot	spot	spot
Focus		for	for	for	for	for	for	for
METING		Brightness	Brightness	6.3	6.3	1%	1%	
Remark (T)		94-M-88-ME	94-M-88-ME	BA MC	BA MC			
Diagram (T)		5-14	5-14	5-15	5-15			
BUIJSNUMMER		F1	F1	F1	F1	0.161	0.161	0.109
		50	50	50	50	0.161	0.161	0.111
		3 36	3 36	3 36	3 36	0.162	0.162	0.109
		4 60	4 60	4 60	4 60	0.160	0.160	0.110
		5 38	5 38	5 38	5 38	0.160	0.160	0.108
						0.161	0.161	0.109
						0.002	0.002	0.003
EISEN		100	100					
EISEN		5 P 5 STUKS	5 P 5 STUKS					
EENHEDEN		ed/m ²	ed/m ²	mm ²	mm ²			
CONCLUSE		1. overide speedag to earth. special wick. Ebbelom	1. overide speedag to earth. special wick. Ebbelom					
		2. Ebbelomelen connected with cathode mltro electrode dimensioned.	2. Ebbelomelen connected with cathode mltro electrode dimensioned.					

PAR PAR PAR PAR SIGN

BLADEN BLATTER FEUILLES SHEETS

BLAD BLATT FEUILLE SHEET

CODE N. TYPE

Q 13-110..

362-2

(T) = RV-64.0/466.

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R.A.R. 84/25094 sheet 4

Q13-110 BA

STEMPEL:	ONTVANGEN OP:	VOOR:	GEZIEN:
Total lengte	Meekoria	Komp. Bou.	
Meekoria	Wesfall meekoria		
		Diverse 204 contact	
		Meekoria meekoria	

METING

NR. IN RV 6-3-0/407

BIJNUMMER

1	100	337.0	126.4	115.2	37.0	121.5	80.0	Good
2	100	337.5	126.4	114.9	37.0	122.0	81.5	"
3	36	332.0	126.6	115.1	37.1	122.5	82.5	"
4	60	337.5	126.6	114.6	36.9	121.0	80.5	"
5	32	339.0	126.5	115.1	37.0	122.0	80.5	"
X		337.4	126.5	115.0	37.0	121.8	80.4	
R		7	0.2	0.6	0.4	1.5	2	

EISEN

MIN.	329	124	108	35.2	112.5	24
MAX.	347	130		37.8	122.5	36
X MIN.						
X MAX.						
R MAX.						
MIN.						
MAX.						

EENHEDEN

mm	mm	mm	mm	mm	mm	mm
----	----	----	----	----	----	----

CONCLUSIE

363-1.

CONTROLE - CONTROLE
KONTROLLE - TEST

Voorlopig

CODE Nr.
TYPE

Q13-110..

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.100

1

75-05-29

ONDERWERP : Release for transferred production Q13-110BA batch 4

Test II results

Received 9 pieces

Good 2 pieces

1 piece repaired on stray emission

2 pieces repaired on scratches

3 pieces black dot > 0.2 mm (2x for L test)

1 piece imperfection of the screen glass.

Remark: All tubes have no sticker of X-ray warning
(repaired in Eindhoven)

Conclusion: Good after repair 5 tubes

Rejected 4 tubes

G.Geevers

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Menet
Wassenaar
Varekamp

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.129

1

75-06-23

ONDERWERP : Release for transferred production Q13-110 GU batch 5

Test II results

Received 15 pieces

Measured 15 pieces

Good 4 pieces

Rejected 11 pieces

8 pieces scratches on face plate (repaired in Eindhoven)

2 pieces silicat stains on face plate (repaired in EHV)

1 piece stray emission (repaired in Eindhoven)

Results after repair in Eindhoven

Measured 15 pieces

Good 15 pieces

More careful handling of the tube due to scratches
is necessary

G. Geevers

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Menet
Varekamp
Wassenaar

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAN-84/75.139

1

75-07-28

ONDERWERP : Release for transferred production Q13-110GU batch 6

Test II results

Received 20 pieces

Measured 20 pieces

Good 7 pieces

Repaired on scratches and silicat stains 11 pieces

Rejected 1 piece glas quality bad

1 piece black dots

Total result after repair

good 18 pieces

rejected 2 pieces

G.Geevers

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Varekamp

Wassenaar

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ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.140

1

75.07.29

ONDERWERP : Release for transferred production G13-110 BA batch 7

Test II results

Received 6 tubes

measured 6 tubes

Good 2 tubes

Repaired on scratches 4 tubes

Total result after repair

6 tubes good

Remarks 2 tubes borderline good: stain in powder

G. Geeverfs

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAH-84/75.141

1

75-07-29

ONDERWERP : Release for transferred production C13-110GU
batch 8

Test II results

Received 30 pieces

Measured 30 pieces

Good 9 pieces

Good after repair 20 pieces (scratches, silicat stains)

Reject 10 pieces

- 1x air bubble 0.24 mm
- 2x black dot 0.25 mm
- 1x bruise
- 1x hole in neck
- 1x glassquality + many small air bubbles
- 1x stain in powder
- 1x black dot 0.3 mm + coarse glass
- 2x glassquality bad (coarse glass)

Total result after repair

20 good

10 rejected

G. Geevers

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Wassenaar

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.142

1

75-07-29

ONDERWERP : Release for transferred production 413-110 GU batch 9

Test II results

received 10 pieces

Measured 10 pieces

Good 7 pieces

Good after repair 3 pieces (2x scratches
1x scratches + polishing lines)

Total results 10 pieces good

G. Geevers

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ONDERWERP : Release for transferred production M13-38

- 1) See reports RAR-84/75.058 content test II and L test results batch 1
 /75.059 content test II and L test results batch 2
 /75.099 content test II and L test results batch 4
- RAR-84/75.095 content test II results batch 3
 /75.120 content test II results batches 5-6-7
 /75.123 content test II results batches 8-9
 /75.136 content test II results batch 10
 /75.143 content test II results batches 11-12-13-14
 /75.168 content test II results batch 15

2) Summary of test II results

Received 15 batches (149 tubes)

30 Tubes showed stray emission, 11 tubes could not be repaired in Eindhoven for this fault.

1 tube -Vg1 too low

1 tube hole in neck after repair on stray emission

1 tube broken in Eindhoven

10 tubes showed low emission, after repair good,

After repair 135 tubes are good out of 149 = 91%

3) Summary of L test results

Batch 1 The eccentricity of 4 tubes is borderline (but within limits)

- * The brightness of 1 tube is rather low
- The other electrical and mechanical measurements are good.

Batch 2 The eccentricity of 2 tubes is borderline (but within limits)

The underheating of 1 tube is borderline (but within limits)

The brightness of 1 tube is rather low

The other electrical and mechanical measurements are good

- * The underheating of 1 tube is borderline (but within limits)

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.169

3-2

75-09-17.

ONDERWERP :

Batch 3 The eccentricity of 2 tubes is borderline
(but within limits)
The other mechanical and electrical measurements
are good.

4) Conclusion

From the results we conclude that there is no objection
on against release of CRT M13-38 for production and
measuring in Brive, with exception that stray emission
needs improvement.

C.Geevers

Copy to Messrs.: Bru
Menet
Varekamp
Wassenaar
Peper
Modderman

Approved K.Wassenaar

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR 84/75.058

3-1

1-4-'75

ONDERWERP : Release for transferred production NY 13-38

batch 1

a) Results of II control measurements

Measured 15 pieces
Good 12 pieces
Stray emission 3 pieces
After repair, good 15 pieces

b) Results of L-test measured 5 pieces

The eccentricity of 4 tubes is borderline (but within limits)
The underheating of 1 tube is borderline (but within limits)
The brightness of 1 tube is rather low.
The other electrical and mechanical measurements are good.

Remarks: 14 pieces to the store
1 piece stays on qual.lab. as a reference
life test will be taken from rejected tubes
These tubes will be delivered by messr. Menet.

G. Geervers

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Menet
Varekamp
Wassenaar

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MY 13-50.

GEZIEN:

VOOR:

ONTVANGEN OP:

STEMPEL:

METING

Nr. in RV 6-3-0/404

BUISNUMMER

- X

R

EISEN

100

S P 5 STUKS

MIN

MAX

MIN

MAX

MIN

MAX

EENHEDEN

CONCLUSIE

CONTROLE - CONTROLE
KONTROLLE - TEST

Voorlopig

CODE N°
TYPE

MY 13-50

363-1.

77

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.059

3-1

74-4-1

ONDERWERP : Release for transferred production MG 13-38

batch 2

a) Results of II control measurements

Measured 9 pieces
Good 7 pieces
Stray emission 2 pieces
After repair, good 9 pieces

b) Results of L-test measured 5 pieces

The eccentricity of 2 tubes is borderline (but within limits)
The underheating of 1 tube is borderline (but within limits)
The brightness of 1 tube is rather low.

The other electrical and mechanical measurements are good

Remarks: 8 pieces delivered to the store
1 piece stays on Qual.lab. as a reference.
Lifetest will be taken from rejected tubes
to be send to us by Messr Menet.

G.Geevers

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Menet
Varekamp
Wassenaar

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STEMPEL:		ONTVANGEN OP:		VOOR:		GEZIEN:	
821 E58						Mg 13-58.	
VF (V ¹⁰⁰)	7	7	7	6.3	6.3	6.3	6.3
V ₁ (V ¹⁰⁰)				adj	adj	adj	adj
V ₂ (KV ¹⁰⁰)				50	50	50	50
Tagl (MA)				51V	51V	51V	51V
Focus				adj	adj	adj	adj
Pietrub.				50	50	50	50
Visol (V ¹⁰⁰)	135	450	135				
METING							
	+15%	+k	-k	Beam. strong	Beam. strong	Beam. strong	Beam. strong
	-91	-f	+f	Dist. 1000	Dist. 1000	Dist. 1000	Dist. 1000
NA. IN RV 6-5-0/404	7	2	2	4-5	7	4-5-8	10
BUISNUMMER	1 31	0	0.5	0.5	186	1800	Good
	2 41	0	0	0.5	145	2090	Good
	3 36	0	0	0.5	137	1860	Good
	4 33	0	0.5	0.5	147	2260	Good
	5 29	0	0.5	0.5	128	1800	Good
X	0	0.3	0.5	4	189	1972	10
R	0	0.5	0	2	19	460	12
EISEN	MIN.				104	1400	10
	MAX.	0.5	0		166		12
X MIN.							
X MAX.							
R MAX.							
MIN.							
MAX.							
EENHEDEN	MA	AA	MA	MA	MA	MA	MA
CONCLUSIE	* after repair good.						

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MS 13-30

GEZIEN:

VOOR:

ONTVANGEN OP:

STEMPEL:

METING

NR. IN RV 6-3-0/404

BUISNUMMER

1	31	361	130.4	119.6	36.8	184	58.0	9/1000
2	41	361.5	130.4	121	36.8	123.5	57.5	"
3	36	361.5	130.0	119.7	37.5	123.5	57.0	"
4	38	362	131.1	119.1	37.1	123	58.0	"
5	29	361.5	130.7	121.4	36.8	123.5	57.5	"

X

R

MIN

MAX

X

X

R

MIN

MAX

EENHEDEN

BLAD
BLATT
FEUILLE
SHEET

CONCLUSIE

368-1.

80
CONTROLE - CONTROLE
KONTROLLE - TEST

VOORLODIG

L

CODE N.
TYPE

MS 13-30

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAH-84/75.099

3-1

75-05-29

ONDERWERP : Release for transferred production MU 13-38 batch 4
Test II results and L test results

Test II results:

Received 7 pieces

Good 5 pieces

1x grid emission (no repair possible)

1x If too low

L test results:

The eccentricity of 2 tubes is borderline but within tolerances

The other mechanical and electrical measurements are good.

Remark: 5 pieces delivered to the store

1 piece returned to Brive

1 piece stays on Qual. Lab. as a reference.

G. Geevero

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Menet

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RECH-04/75099 sheet 2

MLK 13-38.

EIGENDE		STEMPEL :			ONTVANGEN OP :						VOOR :			GEZIEN :				
1/2	(V ¹ / ₂)	7	7	7	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
V ₁	(V ¹ / ₂)	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	adj	
V ₂	(K ¹ / ₂)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
Tagg.	(M ¹ / ₂)	SIV	RIN	ad. 25	RIN	ad. 25	RIN	ad. 25	RIN	ad. 25	RIN	ad. 25	RIN	ad. 25	RIN	ad. 25	RIN	ad. 25
Focus.		adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	adj.	
P. 27-48.		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
Visol.	(V ² / ₂)	135	450	135														
METING		+K	+K	-K	1g.	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF	IF	
		-91																
NR. in RV 6-5-0/404		7	2	2	4-5	5	4-5	7	4-5-8	11	12	10.						
1 45		0.1	0.1	0.1	112	1480	285	285	285	285	285	285	285	285	285	285	285	
2 62		0.1	0.1	0.1	"	"	"	"	"	"	"	"	"	"	"	"	"	
3 63		0.1	0.2	0.2	"	"	"	"	"	"	"	"	"	"	"	"	"	
4 46		0.1	0.1	0.1	"	"	"	"	"	"	"	"	"	"	"	"	"	
5 52		0.1	0.1	0.1	"	"	"	"	"	"	"	"	"	"	"	"	"	
X		0.1	0.1	0.1	130	1844	295	295	295	295	295	295	295	295	295	295	295	
R		0	0.1	0.1	57	822	38	38	38	38	38	38	38	38	38	38	38	
MIN.					166.		315.											
MAX.		2.5	85	80														
X MIN.																		
X MAX.																		
R MAX.																		
MIN.																		
MAX.																		
EISEN																		
S. P. 5 STUKS																		
EENHEDEN		MA	AA	MA	V	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	
CONCLUSIE:																		

CONSOLE - CONSOLE
KONTROLLE - TEST

CODE N^o. M. 13-38.
TYPE

PAR PAR PAR SIGN. BLADEN BLÄTTER FEUILLES SHEETS. BLAD BLATT FEUILLE SHEET.

N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NEDERLAND.

22000 529 B

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.095

1

75-05-27

ONDERWERP : Release for transferred production MW13-38 batch 3
Test II results

Received 7 pieces

Broken in Eindhoven 1 piece

Good 5 pieces

Stray emission 1 piece

After repair on stray emission this tube had a
hole in the neck.(rejected)

Due to delivery orders no L test has been taken.

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.120

1

75.06.19

ONDERWERP :

Release for transferred production

MG 13-38 batch 5
MY 13-38 batch 6
MU 13-38 batch 7

Test II results

MG 13-38 received 8 pieces
measured 8 pieces

1 piece -Vg1 too low

1 piece stray emission (repaired)

MY 13-38 received 5 pieces
measured 5 pieces

3 pieces stray emission (to be repaired in Brive)

MU 13-38 received 7 pieces
measured 7 pieces
good 7 pieces

Total result M 13-38

received 20 ex

good 16 ex.

Remarks: 1x borderline (good) on -Vg1

Stray emission is the main fault

G. Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.123

1

75-06-19

ONDERWERP : Release for transferred production MU 13-38 batch 8
MY 13-38 batch 9

Test II results

MU 13.38 Received 11 pieces
Measured 11 pieces
Good 7 pieces
Good after repair on stray emission 2 pieces
Rejected 1x hole in neck after repair on
stray emission

1x stray emission

Total results

Good 9 pieces
Rejected 2 pieces

MG 13.38 Received 10 pieces
Measured 10 pieces
Good 6 pieces
Good after repair on stray emission 2 pieces
Rejected 1x hole in neck, repair on stray emission
1x stray emission

Total results

Good 8 pieces
Rejected 2 pieces

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAH-84/75.136

1

75-07-22

ONDERWERP : Release for transferred production MW13-38 batch 10

Test II results

Received 6 pieces

Measured 6 pieces

Good 6 pieces

Batch is good

6 pieces delivered to the store

G.Geevers

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KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.143

1

75.07.29

ONDERWERP :

Release for transferred production
MU 13-38 batch 14

MG 13-38 batch 11

MY 13-38 batch 12

MW 13-38 batch 13

Test II results

MG 13-38 received 10 pieces
 measured 10 pieces
 8 good
 2x stray emission (1x repaired
 1x to be repaired in Brive)

MY 13-38 received 20 pieces
 measured 20 pieces
 15 pieces good
 5 pieces stray emission (4x repaired in Eindhoven
 1x to be repaired in Brive)

MW 13-38 received 5 pieces
 measured 5 pieces
 4 pieces good
 1 piece stray emission (to be repaired in Brive)

MU 13-38 received 15 pieces
 measured 15 pieces
 14 pieces good
 1 piece stray emission (1x repaired in Eindhoven)

Total results after repair

received 50 pieces
 good 47 pieces
 3 pieces to be repaired in Brive

G. Geevers

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 Wassenaar

ELCOMA

KWALITEITS LABORATORIUM PROFESSIONELE KATODESTRAALBUIZEN

RAR-84/75.168

1

75.09.16

ONDERWERP : Release for transferred production NY 13-38 batch 15

Received 15 pieces

Good 5 pieces

Rejected 8 pieces Ia too low(repair in Eindhoven)

2 pieces Ia too low and stray emission
(repair in Eindhoven)

After repair: 15 pieces good

G.Geevers

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Varekamp

Wassenaar

