0 werkmap. 10 cm. bolgaas.
dunne ordner mcke

ELCOMA	KWALITEITSLAB. OSC. BZN. PHILIPS HEERLEN		
	KHR-89/VL-167	1	1984.01.18

LINEARITEIT VAN 26D10

1. INLEIDING : n = 5 stuks.

   Meetkonditie = Vk/g2 = 1.200 V
   Vs/k = 12 kV

   Meetmal = 10 x 8 div. (1 div. = 6 mm)
   = 60 x 48 mm
   Nuttig schermoppervlak = 70 x 56 mm (1 div. = 7 mm)

2. MEETRESULTAAT : Bijlage 1 t/m 6.

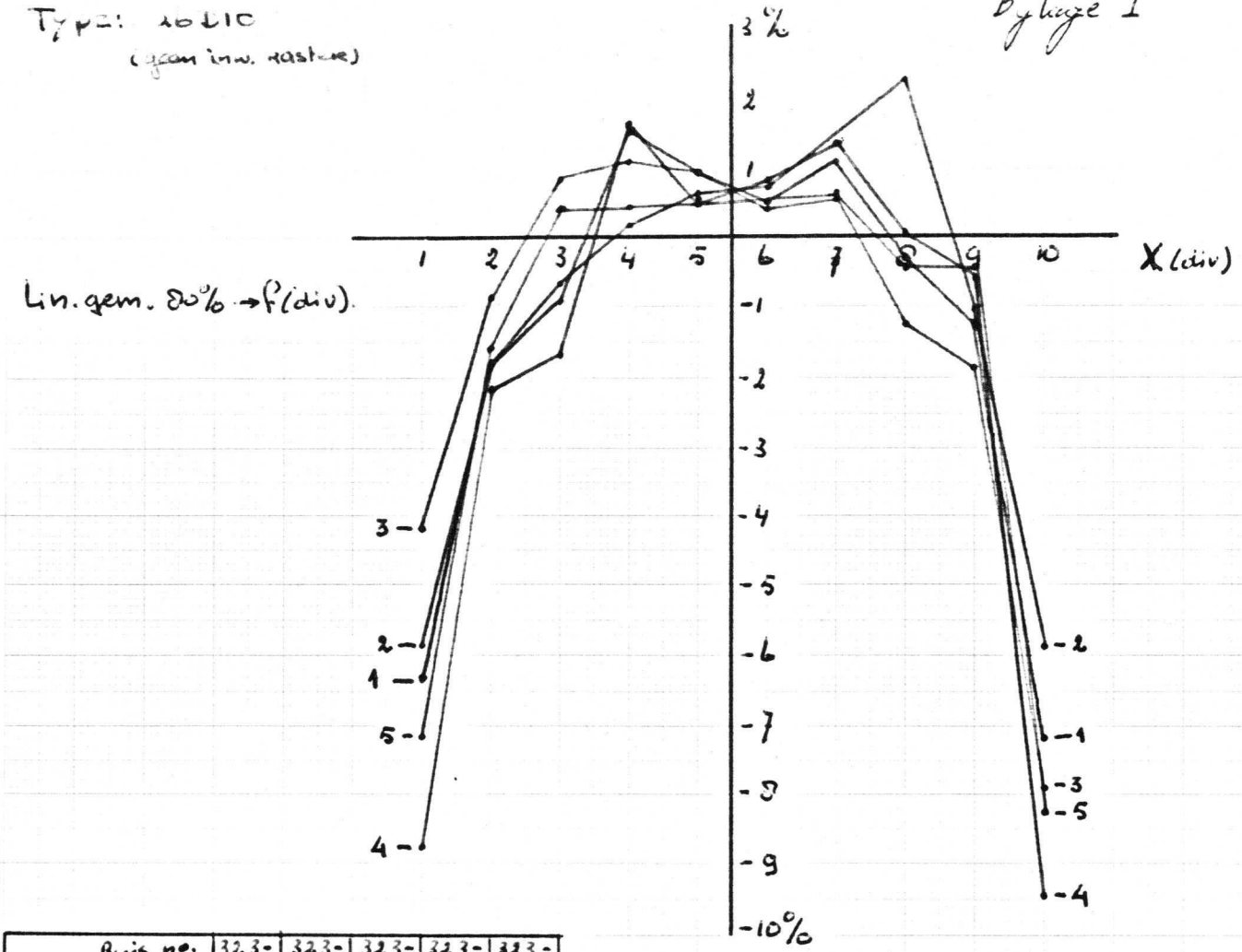
3. KONKLUSIE : In X-richting zeer slechte lineariteit, let op gereduceerde meetmalafmeting.

J. Vleeschouwers

Kopie: H.H. Koppelmans
Mordang
Warnier
Sieben
Schröder
Zeppenfeld
Schols

Bijlage 1

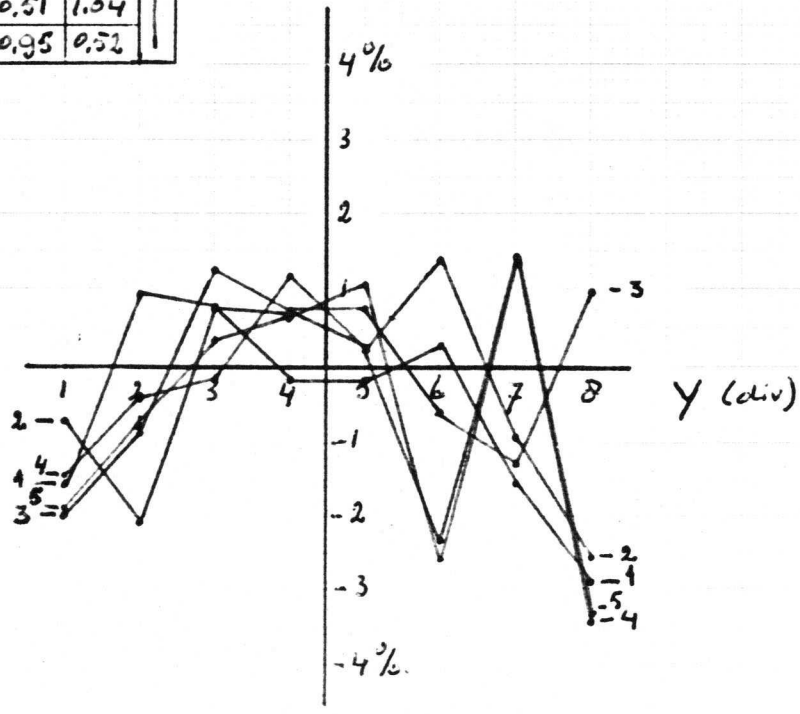
Type: 10 DIC
(geen inw. rastaar)



Lin. gem. 80% → f(div).

Buis nr:	323-659 1	323-679 2	323-681 3	323-686 4	323-697 5	
Lin. max X	9.4	9.65	9.77	13.2	9.7	
Lin max Y	3.95	4.05	3.23	5.03	4.91	
Lin(25-75%) X1	1.02	0.86	0.38	1.03	0.46	%
Lin(25-75%) X2	0.53	0.01	0.89	0.43	0.46	
Lin(25-75%) Y1	0.3	0	1.12	0.51	1.04	
Lin(25-75%) Y2	-0.68	0.92	0.37	0.95	0.52	

1 div = 6 mm !



Lin. gem. 75% → f(div).

18-1-'84
F.v. Sensor.

Bijlage 2

==========
Vk/g2=1200V Vs/k=12kV
26D10 323659
INPUT overzicht HORIZONTAAL
==========

Div	1ste	2de	Meetfout	Gem.
X 1	4.19	4.19	0.0%	4.19
X 2	4.39	4.39	0.0%	4.39
X 3	4.43	4.43	0.0%	4.43
X 4	4.54	4.54	0.0%	4.54
X 5	4.52	4.51	.2%	4.52
X 6	4.50	4.49	.2%	4.50
X 7	4.52	4.52	0.0%	4.52
X 8	4.45	4.47	-.4%	4.46
X 9	4.42	4.41	.2%	4.42
X10	4.15	4.15	0.0%	4.15

INPUT overzicht VERTIKAAL
==========

Div	1ste	2de	Meetfout	Gem.
Y 1	2.18	2.18	0.0%	2.18
Y 2	2.24	2.23	.4%	2.24
Y 3	2.23	2.23	0.0%	2.23
Y 4	2.21	2.21	0.0%	2.21
Y 5	2.21	2.21	0.0%	2.21
Y 6	2.22	2.22	0.0%	2.22
Y 7	2.18	2.18	0.0%	2.18
Y 8	2.15	2.15	0.0%	2.15

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Rapport LINEARITEIT van: %
% Vk/g2=1200V Vs/k=12kV   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

Type   :26D10

Buis   :323659
Meetdatum:18-1-1984

HORIZONTAAL Div	Mx/div	LIN 100%	LIN 80%
X 1	4.19	-5.00	-6.28
X 2	4.39	-.46	-1.80
X 3	4.43	.44	-.91
X 4	4.54	2.94	1.55
X 5	4.52	2.37	.99
X 6	4.50	1.92	.55
X 7	4.52	2.48	1.10
X 8	4.46	1.12	-.24
X 9	4.42	.10	-1.24
X10	4.15	-5.91	-7.17
In:	[V/div]	[%]	[%]

Lin.max.= 9.4 %

Lin(25/75%)X1= 1.02 %
Lin(25/75%)X2= .53 %

Overzicht DEFLEKTIEFACTOREN X:
==========
Gem.(100%)= 4.41 V/div
Gem.(80%) = 4.47 V/div
Mx (def.) = 4.52 V/div

Exc defl.factor= .03 V = .44 %
◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀

◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀

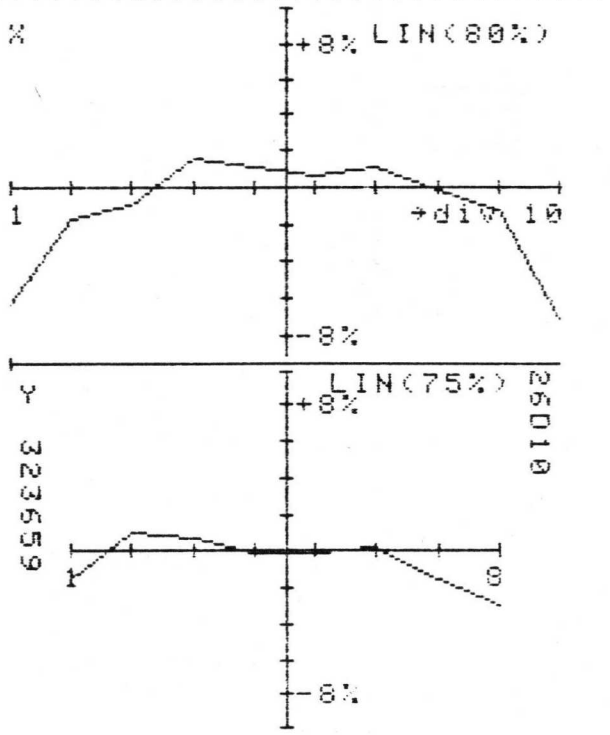
VERTIKAAL Div	My/div	LIN 100%	LIN 80%	LIN 75%
Y 1	2.18	-.99	-1.41	-1.54
Y 2	2.24	1.50	1.08	.94
Y 3	2.23	1.28	.86	.72
Y 4	2.21	.37	-.05	-.19
Y 5	2.21	.37	-.05	-.19
Y 6	2.22	.82	.40	.26
Y 7	2.18	-.99	-1.41	-1.54
Y 8	2.15	-2.36	-2.76	-2.90
In:	[V/div]	[%]	[%]	[%]

Lin.max.= 3.95 %

Lin(25/75%)Y1= .3 %
Lin(25/75%)Y2=-.68 %

Overzicht DEFLEKTIEFACTOREN:Y
==========
Gem.(100%)= 2.2   V/div
Gem.(80%) = 2.21 V/div
Gem.(75%) = 2.21 V/div
My (def.) = 2.22 V/div

Exc defl.factor= .01 V = .23 %
◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀



Bylage 3

```
============================
Vk/s2=1200V  Vs/k=12kV
26D10  323679
INPUT overzicht HORIZONTAAL
============================
Div   1ste    2de    Meetfout Gem.
X 1    4.27    4.28     -.2%    4.28
X 2    4.46    4.46     0.0%    4.46
X 3    4.51    4.51     0.0%    4.51
X 4    4.55    4.55     0.0%    4.55
X 5    4.57    4.57     0.0%    4.57
X 6    4.57    4.58     -.2%    4.58
X 7    4.53    4.52      .2%    4.53
X 8    4.64    4.65     -.2%    4.65
X 9    4.50    4.49      .2%    4.50
X10    4.27    4.28     -.2%    4.28

INPUT overzicht VERTIKAAL
============================
Div   1ste    2de    Meetfout Gem.
Y 1    2.14    2.14     0.0%    2.14
Y 2    2.11    2.11     0.0%    2.11
Y 3    2.17    2.17     0.0%    2.17
Y 4    2.17    2.17     0.0%    2.17
Y 5    2.16    2.16     0.0%    2.16
Y 6    2.18    2.19     -.5%    2.19
Y 7    2.14    2.13      .5%    2 14
Y 8    2.10    2.10     0.0%    2.10


%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%   Rapport LINEARITEIT van:     %
% Vk/s2=1200V  Vs/k=12kV         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

Type      :26D10

Buis      :323679
Meetdatum:18-1-1984

HORIZONTAAL   LIN     LIN
Div Mx/div    100%    80%
-------------------------------
X 1    4.28  -4.75   -5.86
X 2    4.46   -.62   -1.79
X 3    4.51    .49    -.69
X 4    4.55   1.38     .19
X 5    4.57   1.83     .63
X 6    4.58   1.94     .74
X 7    4.53    .82    -.36
X 8    4.65   3.50    2.28
X 9    4.50    .16   -1.02
X10    4.28  -4.75   -5.86
In:[V/div]    [%]     [%]

Lin.max.= 8.65 %

Lin(25/75%)X1=  .86 %
Lin(25/75%)X2=  .01 %

Overzicht DEFLEKTIEFACTOREN X:
==============================
Gem.(100%)= 4.49  V/div
Gem.(80%) = 4.54  V/div
Mx (def.) = 4.56  V/div

Exc defl.factor= .01 V =  .22 %
◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀

VERTIKAAL     LIN     LIN     LIN
Div My/div    100%    80%     75%
-------------------------------------
Y 1    2.14   -.29    -.60    -.70
Y 2    2.11  -1.69   -1.99   -2.09
Y 3    2.17   1.11     .80     .70
Y 4    2.17   1.11     .80     .70
Y 5    2.16    .64     .33     .23
Y 6    2.19   1.81    1.50    1.39
Y 7    2.14   -.52    -.83    -.93
Y 8    2.10  -2.15   -2.45   -2.55
In:[V/div]    [%]     [%]     [%]

Lin.max.= 4.05 %

Lin(25/75%)Y1=  0 %
Lin(25/75%)Y2=  .92 %

Overzicht DEFLEKTIEFACTOREN:Y
==============================
Gem.(100%)= 2.15  V/div
Gem.(80%) = 2.15  V/div
Gem.(75%) = 2.16  V/div
My (def.) = 2.17  V/div

Exc defl.factor= 0 V =-.12 %
◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀◀
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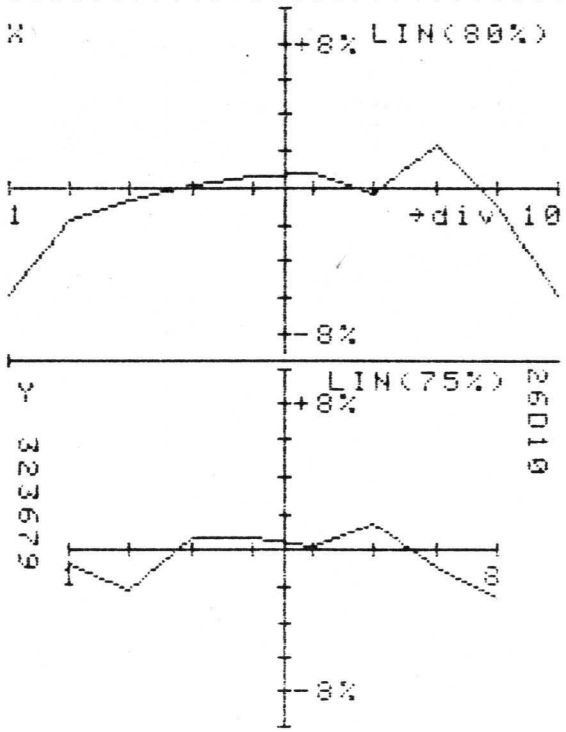


Bijlage 4

```
============================
Vk/e2=1200V  Vs/k=12kV
26D10  323681
INPUT overzicht HORIZONTAAL
============================
Div   1ste    2de    Meetfout  Gem.
X 1    4.26    4.26      0.0%    4.26
X 2    4.41    4.41      0.0%    4.41
X 3    4.49    4.48        .2%   4.49
X 4    4.49    4.50       -.2%   4.50
X 5    4.49    4.49      0.0%    4.49
X 6    4.47    4.46        .2%   4.47
X 7    4.47    4.47      0.0%    4.47
X 8    4.39    4.39      0.0%    4.39
X 9    4.36    4.37       -.2%   4.37
X10    4.10    4.09        .2%   4.10

INPUT overzicht VERTIKAAL
=========================
Div   1ste    2de    Meetfout  Gem.
Y 1    2.16    2.17       -.5%   2.17
Y 2    2.19    2.19      0.0%    2.19
Y 3    2.24    2.23        .4%   2.24
Y 4    2.22    2.23       -.5%   2.23
Y 5    2.22    2.23       -.5%   2.23
Y 6    2.20    2.19        .5%   2.20
Y 7    2.18    2.18      0.0%    2.18
Y 8    2.23    2.23      0.0%    2.23
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%   Rapport LINEARITEIT van:         %
% Vk/e2=1200V  Vs/k=12kV             %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

Type      :26D10

Buis      :323681
Meetdatum:18-1-1984

HORIZONTAAL    LIN     LIN
Div Mx/div    100%    80%
-------------------------------
X 1    4.26   -3.02   -4.19
X 2    4.41     .40    -.82
X 3    4.49    2.11     .87
X 4    4.50    2.33    1.10
X 5    4.49    2.22     .98
X 6    4.47    1.65     .42
X 7    4.47    1.76     .53
X 8    4.39    -.06   -1.27
X 9    4.37    -.63   -1.83
X10    4.10   -6.77   -7.90
In:[V/div]     [%]     [%]

Lin.max.= 9.77 %

Lin(25/75%)X1= .38 %
Lin(25/75%)X2= .89 %

Overzicht DEFLEKTIEFACTOREN X:
==============================
Gem.(100%)= 4.39  V/div
Gem.(80%) = 4.45  V/div
Mx (def.) = 4.48  V/div

Exc detl.factor= .03 V = .56 %
```

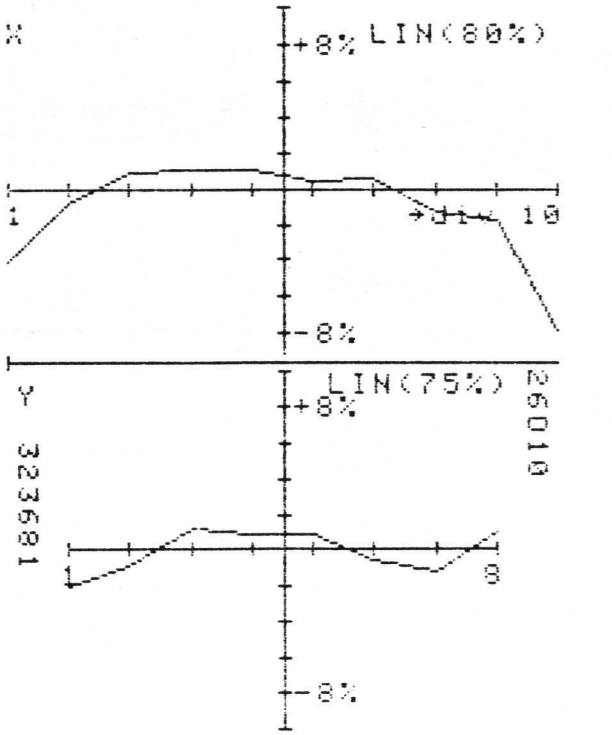
```
VERTIKAAL      LIN     LIN     LIN
Div My/div    100%    80%     75%
-------------------------------------
Y 1    2.17   -1.84   -1.93   -1.96
Y 2    2.19    -.71    -.80    -.83
Y 3    2.24    1.33    1.24    1.21
Y 4    2.23     .88     .79     .75
Y 5    2.23     .88     .79     .75
Y 6    2.20    -.48    -.57    -.60
Y 7    2.18   -1.16   -1.25   -1.28
Y 8    2.23    1.11    1.01     .98
In:[V/div]     [%]     [%]     [%]

Lin.max.= 3.23 %

Lin(25/75%)Y1= 1.12 %
Lin(25/75%)Y2= .37 %

Overzicht DEFLEKTIEFACTOREN:Y
=============================
Gem.(100%)= 2.21  V/div
Gem.(80%) = 2.21  V/div
Gem.(75%) = 2.21  V/div
My (def.) = 2.22  V/div

Exc detl.factor= .02 V = .9 %
```



Bylage 5.

```
============================
Vk/g2=1200V  Vs/k=12kV
26D10  323686
INPUT overzicht HORIZONTAAL
============================
Div   1ste    2de    Meetfout  Gem.
X 1    4.18    4.16      .5%     4.17
X 2    4.47    4.48     -.2%     4.48
X 3    4.50    4.49      .2%     4.50
X 4    4.64    4.65     -.2%     4.65
X 5    4.60    4.59      .2%     4.60
X 6    4.61    4.61     0.0%     4.61
X 7    4.63    4.64     -.2%     4.64
X 8    4.58    4.57      .2%     4.58
X 9    4.54    4.55     -.2%     4.55
X10    4.14    4.14     0.0%     4.14

INPUT overzicht VERTIKAAL
=========================
Div   1ste    2de    Meetfout  Gem.
Y 1    2.23    2.23     0.0%     2.23
Y 2    2.26    2.25      .4%     2.26
Y 3    2.26    2.26     0.0%     2.26
Y 4    2.29    2.29     0.0%     2.29
Y 5    2.27    2.27     0.0%     2.27
Y 6    2.21    2.21     0.0%     2.21
Y 7    2.29    2.30     -.4%     2.30
Y 8    2.19    2.18      .5%     2.19


%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%   Rapport LINEARITEIT van:     %
% Vk/g2=1200V  Vs/k=12kV         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

Type      :26D10

Buis      :323686
Meetdatum:17-1-1984

HORIZONTAAL    LIN     LIN
Div Mx/div    100%    80%
-------------------------------
X 1    4.17   -7.10   -8.79
X 2    4.48    -.30   -2.12
X 3    4.50     .14   -1.68
X 4    4.65    3.49    1.60
X 5    4.60    2.37     .51
X 6    4.61    2.71     .83
X 7    4.64    3.26    1.38
X 8    4.58    1.93     .07
X 9    4.55    1.26    -.59
X10    4.14   -7.76   -9.45
In:[V/div]     [%]     [%]

Lin.max.= 12.2 %

Lin(25/75%)X1= 1.03 %
Lin(25/75%)X2= .45 %

Overzicht DEFLEKTIEFACTOREN X:
==============================
Gem.(100%)= 4.49  V/div
Gem.(80%) = 4.57  V/div
Mx (def.) = 4.62  V/div

Exc defl.factor= 0 V =-.05 %
◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄
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VERTIKAAL      LIN     LIN     LIN
Div My/div    100%    80%     75%
-------------------------------------
Y 1    2.23    -.86   -1.32   -1.47
Y 2    2.26     .25    -.21    -.37
Y 3    2.26     .47     .01    -.15
Y 4    2.29    1.81    1.33    1.18
Y 5    2.27     .92     .45     .29
Y 6    2.21   -1.75   -2.21   -2.36
Y 7    2.30    2.03    1.56    1.40
Y 8    2.19   -2.86   -3.31   -3.46
In:[V/div]     [%]     [%]     [%]

Lin.max.= 5.03 %

Lin(25/75%)Y1= .51 %
Lin(25/75%)Y2= .95 %

Overzicht DEFLEKTIEFACTOREN:Y
=============================
Gem.(100%)= 2.25  V/div
Gem.(80%) = 2.26  V/div
Gem.(75%) = 2.26  V/div
My (def.) = 2.26  V/div

Exc defl.factor= .04 V = 1.56 %
◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄
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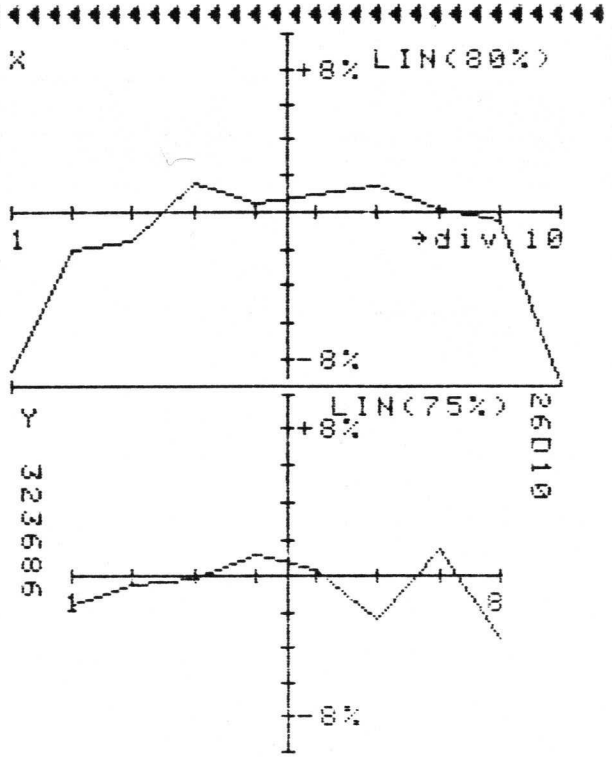

Bijlage 6

```
============================
Vk/g2=1200V  Vs/k=12kV
26D10  323687
INPUT overzicht HORIZONTAAL
============================
Div   1ste    2de    Meetfout Gem.
X 1    4.18    4.17      .2%    4.18
X 2    4.43    4.42      .2%    4.43
X 3    4.51    4.52     -.2%    4.52
X 4    4.51    4.52     -.2%    4.52
X 5    4.52    4.52     0.0%    4.52
X 6    4.51    4.53     -.4%    4.52
X 7    4.53    4.52      .2%    4.53
X 8    4.47    4.48     -.2%    4.48
X 9    4.47    4.48     -.2%    4.48
X10    4.12    4.13     -.2%    4.13

INPUT overzicht VERTIKAAL
=========================
Div   1ste    2de    Meetfout Gem.
Y 1    2.17    2.17     0.0%    2.17
Y 2    2.20    2.19      .5%    2.20
Y 3    2.22    2.22     0.0%    2.22
Y 4    2.23    2.22      .4%    2.23
Y 5    2.23    2.24     -.4%    2.24
Y 6    2.15    2.16     -.5%    2.16
Y 7    2.25    2.24      .4%    2.25
Y 8    2.14    2.14     0.0%    2.14


%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%   Rapport LINEARITEIT van:     %
% Vk/g2=1200V  Vs/k=12kV         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

Type      :26D10

Buis      :323687
Meetdatum:17-1-1984

HORIZONTAAL   LIN     LIN
Div Mx/div    100%    80%
-----------------------------
X 1    4.18   -5.69   -7.14
X 2    4.43    -.05   -1.58
X 3    4.52    1.99     .42
X 4    4.52    1.99     .42
X 5    4.52    2.10     .53
X 6    4.52    2.10     .53
X 7    4.53    2.21     .64
X 8    4.46    1.08    -.47
X 9    4.48    1.08    -.47
X10    4.13   -6.82   -8.26
In:[V/div]     [%]     [%]

Lin.max.= 9.7 %

Lin(25/75%)X1= .46 %
Lin(25/75%)X2= .46 %

Overzicht DEFLEKTIEFACTOREN X:
==============================
Gem.(100%)= 4.43  V/div
Gem.(80%) = 4.5   V/div
Mx (def.) = 4.52  V/div

Exc detl.factor= 0 V =-.11 %
◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄
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VERTIKAAL     LIN     LIN     LIN
Div My/div    100%    80%     75%
-----------------------------------
Y 1    2.17   -1.28   -1.76   -1.92
Y 2    2.20    -.14    -.63    -.79
Y 3    2.22    1.00     .50     .34
Y 4    2.23    1.22     .73     .56
Y 5    2.24    1.68    1.18    1.02
Y 6    2.16   -1.96   -2.44   -2.60
Y 7    2.25    2.13    1.63    1.47
Y 8    2.14   -2.64   -3.12   -3.28
In:[V/div]     [%]     [%]     [%]

Lin.max.= 4.91 %

Lin(25/75%)Y1= 1.04 %
Lin(25/75%)Y2= .52 %

Overzicht DEFLEKTIEFACTOREN:Y
=============================
Gem.(100%)= 2.2   V/div
Gem.(80%) = 2.21  V/div
Gem.(75%) = 2.21  V/div
My (def.) = 2.21  V/div

Exc detl.factor= .03 V = 1.25 %
◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄◄
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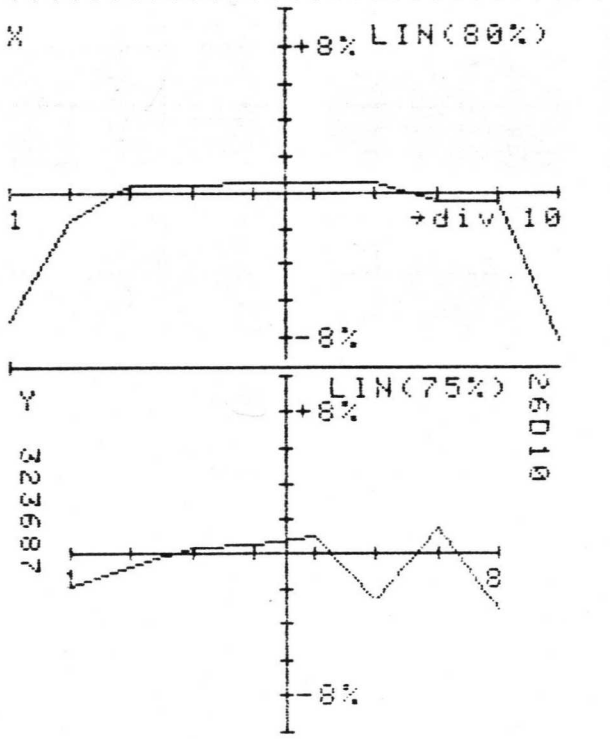


2e = PHILIPS

Meetinstelling +

Levensduurinstelling. 26D10.

O-
werkmap
10 cm
bolgaas

- V_K = 1.2kV
  $V_{scherm/kath}$ = 12kV.
  I_{nav} = 5 µA
  R = 4 x 4 cm^2.

(Meten m.b.t. kanon: conform D14-370 →)

- I_{bx} (V_d = ~~30~~ 25 V) R = 40x40 mm^2
- Lum. R = 4x4, I_{nav} = 5 µA
- Fot. schrijfnelheid: niet meten.

Bestaat er een targetspec?

Meetenis concept: opstellen: HH Vleschouwers/Koppelmans.

→ Indien niet accoord, dan z.s.m. reactie.

- HH Koppelmans
  Schröder
  Zeppenfeld

4/1-84

Siebenga

HH Scholts
Winands
Vleschouwers

26D10

glas dikte 3.99 mm

14kV 100 µA

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%   X-RAY report on project:         %
% 26D10                              %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

   Testresults of the: SCREEN
==============================

Details about the GLASS:
------------------------
3270
Min. MU glass = 10.4
Real MU glass = 10.7
Exponent X    = 2.76
Min. thickness= 3.7

Date of test:83-05-10


Tubenumber           = 10
Corr.fact VICTOREEN= 1.13
Glassthickness       = 3.99 mm

KV   mR/hr      µA      mR/hr(5µA)
-------------------------------
16     .04     25.0         .009
17     .18     25.0         .041
18     .80     25.0         .181
19    2.78     25.0         .628
20    7.70     25.0        1.740
21    7.55     10.0        4.266
22    7.75      5.0        8.758
23    7.55      2.5       17.063


%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% SCREEN SCREEN SCREEN SCREEN SCREEN %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
-------------------------------
 16 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
-------------------------------

 1        10        .009        .023

MEAN X      =      .009 mR/hr
MEAN XMAX   =      .023 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


-------------------------------
 17 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
-------------------------------

 1        10        .041        .091

MEAN X      =      .041 mR/hr
MEAN XMAX   =      .091 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


-------------------------------
 18 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
-------------------------------

 1        10        .181        .361

MEAN X      =      .181 mR/hr
MEAN XMAX   =      .361 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


-------------------------------
 19 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
-------------------------------

 1        10        .628       1.146

MEAN X      =      .628 mR/hr
MEAN XMAX   =     1.146 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


-------------------------------
 20 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
-------------------------------

 1        10       1.740       2.941

MEAN X      =     1.740 mR/hr
MEAN XMAX   =     2.941 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr
```

kV ====	TUBE NR	X (mR/hr)	XMAX at 5 µA
1	10	4.266	6.767

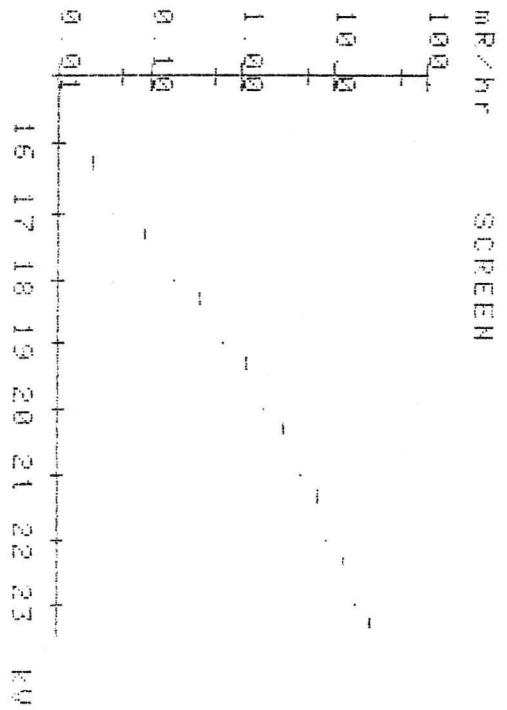
MEAN X = 4.266 mR/hr
MEAN XMAX = 6.767 mR/hr
SIGMA X = .999 mR/hr
SIGMA XMAX = .999 mR/hr
XMAX+3σXMAX= .300 mR/hr

22 kV =====	TUBE NR	X (mR/hr)	XMAX at 5 µA
1	10	8.758	13.176

MEAN X = 8.758 mR/hr
MEAN XMAX = 13.176 mR/hr
SIGMA X = .999 mR/hr
SIGMA XMAX = .999 mR/hr
XMAX+3σXMAX= .300 mR/hr

23 kV =====	TUBE NR	X (mR/hr)	XMAX at 5 µA
1	10	17.063	24.545

MEAN X = 17.063 mR/hr
MEAN XMAX = 24.545 mR/hr
SIGMA X = .999 mR/hr
SIGMA XMAX = .999 mR/hr
XMAX+3σXMAX= .300 mR/hr



```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%    X-RAY report on project:        %
% 26D10                              %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

   Testresults of the: SCREEN
==================================

Details about the GLASS:
------------------------
B270
Min. MU glass = 10
Real MU glass = 10.7
Exponent X    = 2.76
Min. thickness= 3.5

Date of test:83-05-10


Tubenumber           = 10
Corr.fact.VICTOREEN= 1.13
Glassthickness       = 3.99 mm

KV   mR/hr      µA      mR/hr(5µA)
-------------------------------
16     .04     25.0         .009
17     .18     25.0         .041
18     .80     25.0         .181
19    2.78     25.0         .628
20    7.70     25.0        1.740
21    7.55     10.0        4.266
22    7.75      5.0        8.758
23    7.55      2.5       17.063


**********************************
* SCREEN SCREEN SCREEN SCREEN *
**********************************
---------------------------------
 16 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
---------------------------------

 1        10        .009        .051

MEAN X      =      .009 mR/hr
MEAN XMAX   =      .051 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


---------------------------------
 17 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
---------------------------------

 1        10        .041        .177

MEAN X      =      .041 mR/hr
MEAN XMAX   =      .177 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


---------------------------------
 18 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
---------------------------------

 1        10        .181        .641

MEAN X      =      .181 mR/hr
MEAN XMAX   =      .641 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


---------------------------------
 19 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
---------------------------------

 1        10        .628       1.881

MEAN X      =      .628 mR/hr
MEAN XMAX   =     1.881 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr


---------------------------------
 20 kV  TUBE        X       XMAX
 =====   NR      (mR/hr)  at 5 µA
---------------------------------

 1        10       1.740       4.536

MEAN X      =     1.740 mR/hr
MEAN XMAX   =     4.536 mR/hr
SIGMA X     =  .999     mR/hr
SIGMA XMAX  =  .999     mR/hr
XMAX+3σXMAX=  .300     mR/hr
```

kV =====	TUBE NR	X (mR/hr)	XMAX at 5 μA
1	10	4.266	9.908

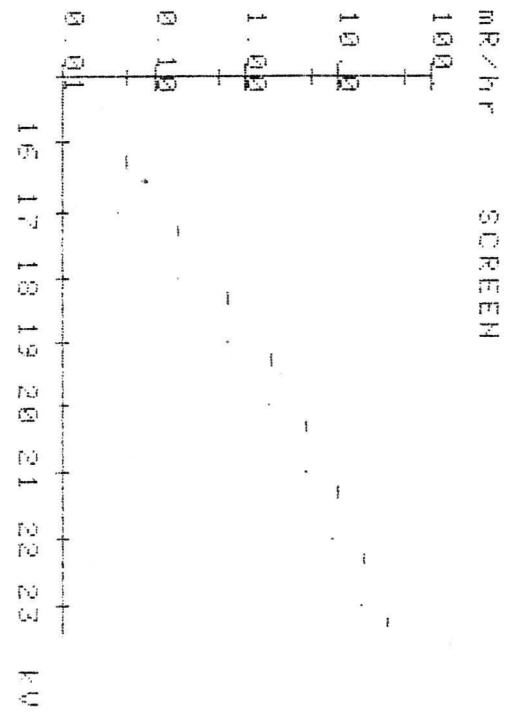
MEAN X = 4.266 mR/hr
MEAN XMAX = 9.908 mR/hr
SIGMA X = .999 mR/hr
SIGMA XMAX = .999 mR/hr
XMAX+3σXMAX= .300 mR/hr

22 kV =====	TUBE NR	X (mR/hr)	XMAX at 5 μA
1	10	8.758	18.464

MEAN X = 8.758 mR/hr
MEAN XMAX = 18.464 mR/hr
SIGMA X = .999 mR/hr
SIGMA XMAX = .999 mR/hr
XMAX+3σXMAX= .300 mR/hr

23 kV =====	TUBE NR	X (mR/hr)	XMAX at 5 μA
1	10	17.063	33.144

MEAN X = 17.063 mR/hr
MEAN XMAX = 33.144 mR/hr
SIGMA X = .999 mR/hr
SIGMA XMAX = .999 mR/hr
XMAX+3σXMAX= .300 mR/hr



ELCOMA

QUALITY LABORATORY HEERLEN

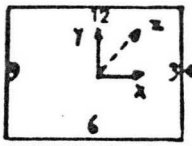
OSCILLOSCOPE TUBES: X-RADIATION REPORT | APP.:

26 Dco

TEST: DATE: 10-5-83 BY Schols/Cocks TYPE : 26 Dco
GUNNO. :
TRIAL :

EQUIPMENT
H.V.: METER/DIV. :
SUPPLY :
CURRENT: METER :
SEARCH INSTR. :
VICTOREEN 440 KFC : SERIAL NR.: ~~23~~ 2389
CALIBR. :

TESTMETHOD :
SCREEN-GLASS :
CONE-GLASS :
NECK-GLASS :



FRONTPLATE: Z = 0 CM
FRONTVIEW

HOTSPOTLOCATION (IN CM)
SCREEN: X/Y IN CM WITH RESPECT TO SCREEN-CENTRE
CONE : CLOCK + VALUE OF Z (IN CM).

SCREENPARAMETERS
MIN. T (MM), : MM ACC. TO DRAWING/DOC.:
MIN. R (CM⁻¹) : ACC. TO DRAWING/DOC.:

ACTUAL T : 4.46 MM → ?? 3,99mm.
ACTUAL R : CM⁻¹ (AT 0.6 ?)

HOTSPOTLOCATION: X/Y:

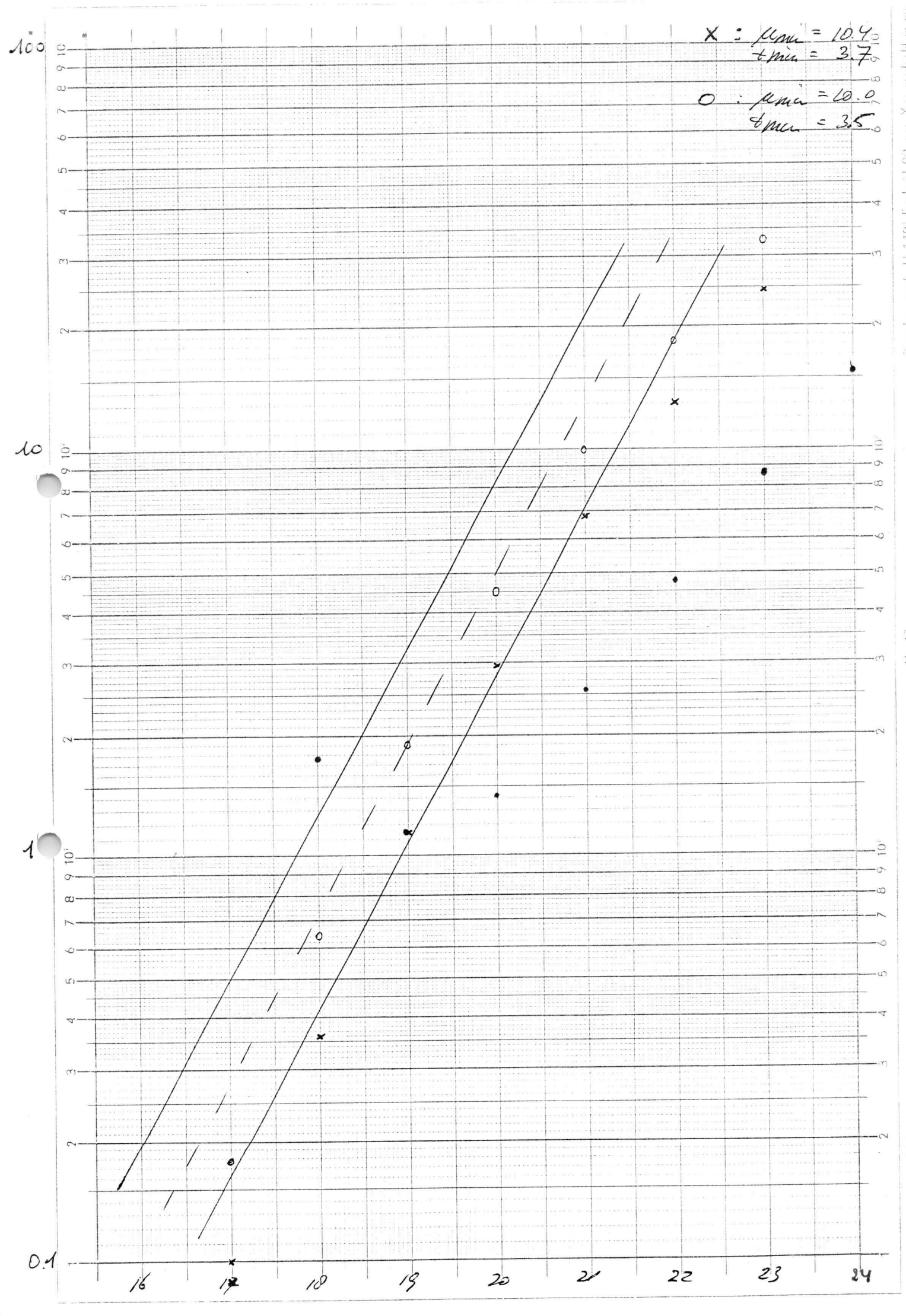
CONEPARAMETERS
MIN. T (MM), : MM ACC. TO DRAWING/DOC.:
MIN. R (CM⁻¹) : ACC. TO DRAWING/DOC.:

ACTUAL T : MM
ACTUAL R : CM⁻¹ (AT 0.6 ?)

HOTSPOTLOCATION: HRS.
Z= CM

MEASUREMENTS

VOLTAGE SCREEN-CATHODE	SCREEN ≤ MR/HR - EO - MR/HR	IS(UA)	CALC. MR/HR AT IS=...UA	VOLTAGE SCREEN-CATHODE	CONE ≤ MR/HR - EO - MR/HR	IS(UA)	CALC. MR/HR AT IS=...UA
16	0.14-01 0.04	25					
17	0.28-01 0.18	25					
18	0.9 -01 0.8	25					
19	2.8-002 2.78	25					
20	7.25-005 7.70	25					
21	7.6 -0.05 7.55	10					
22	7.8-005 7.75	5					
23	7.6-005 7.55	2.5					


X : μmin = 10.4
tmin = 3.7
O : μmin = 10.0
tmin = 3.5
100
10
1
0.1
16
17
18
19
20
21
22
23
24