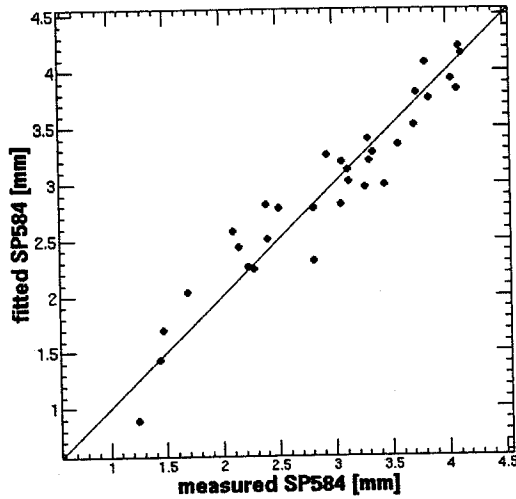


Hor. SP 580

residual = .265 mm



Condition
BPM to be Calibrated :
SP580

Direction :
Horizontal Vertical

Used Components :
BPM : SP580
Steering : {{("SX553",1)}}
from -1
to -5
number 4
Q magnet: QD564
from -2
to 2
number 8

next remem. save

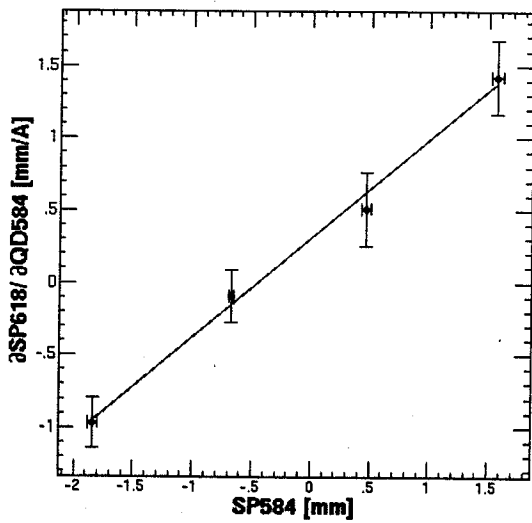
GO STOP READ

Display
BPM : SP584 Steering step : FT0

Result
When the beam is at the Q center :
BPM reading [mm]: .27355
error [mm]: .25345
Last BPM taken into account :
SP584
rel. curr. thresh. : .6

Ft Chk I Save

Hor. SP 584



Condition
BPM to be Calibrated :
SP584

Direction :
Horizontal Vertical

Used Components :
BPM : SP584
Steering : {{("SX573",1)}}
from -5
to 2
number 4
Q magnet: QD584
from -1
to 1
number 8

next remem. save

GO STOP READ

Display
BPM : SP518 Steering step : Ft

Result
When the beam is at the Q center :
BPM reading [mm]: -46643
error [mm]: .05422
Last BPM taken into account :
SP518
rel. curr. thresh. : .6

Ft Chk I Save

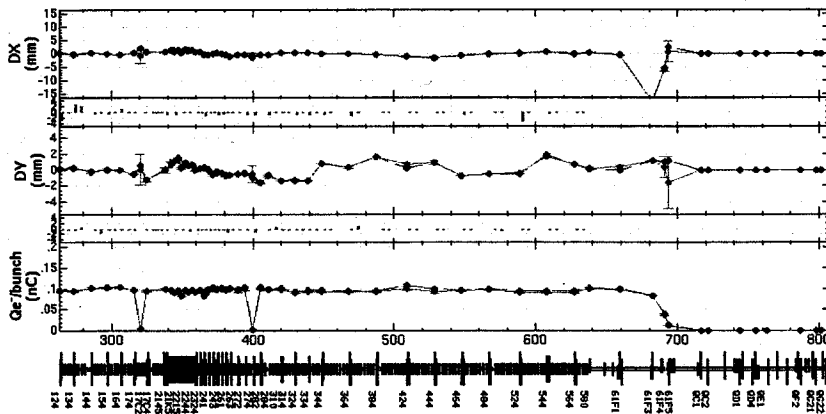
ave			
ID			
top :			
tar :			
	43	4	
	122	2	
ave			

17:35 BPM ~~cal~~ 調整後の軌道

Edit Measurement Correction Steering Orbit Window

01/12/2007 17:34:14 Help

measuring at intervals of 1 sec
measured 01/12/2007 17:34:12



r.m.s = 2.212 mm
max = 3.061 mm
@ SPA11
min. = -17.953 mm
@ SP61F3
-17.953 mm
@ SP61F3
(-17.953 ± 2.39419E-7m)

r.m.s = 1.009 mm
max = 2.582 mm
@ SPC64
min. = -3.188 mm
@ SPR014
-558 mm
@ SP464
(-542 ± 058mm)

.099 nC
@ SP61F1
(.037 ± .005 nC)

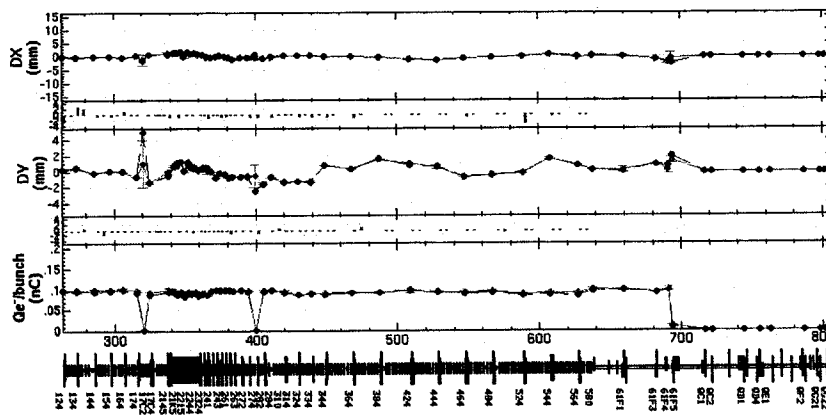
4.901

B558-1 に 1.5[A] かけて Energy Knob を 調整した。

Edit Measurement Correction Steering Orbit Window

01/12/2007 17:37:48 Help

measuring at intervals of 1 sec
measured 01/12/2007 17:37:49



r.m.s = 1.06 mm
max = 3.072 mm
@ SPA11
min. = -2.656 mm
@ SP61F5
-2.656 mm
@ SP61F5
(-2.656 ± 2.238mm)

r.m.s = 1.232 mm
max = 4.948 mm
@ SP17C2
min. = -4.89 mm
@ SPR032
-419 mm
@ SP434
(-437 ± 050mm)

.01 nC
@ SP61F5
(.011 ± 9.45155E-4)

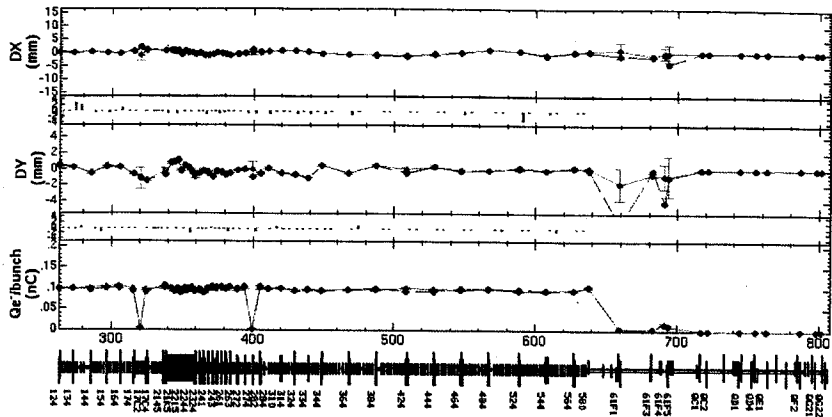
2.97

SB 2 が 落ちた。

BM58-1 初期化。

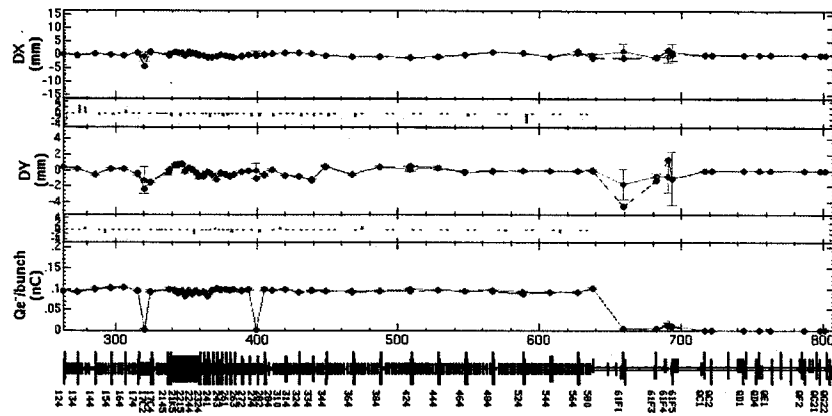
18:34

- ① 手可く通す 544 以降の電流を ϕ に既に
- ② KLY 55, 56, 57 = Stb である。
- ③ St SX 55-1 - 0.8 $\rightarrow \phi$ に。
SX 53-1 - 3.398 1.1. 2.0 1.1.
- ④ QM 544, QM 564 $\rightarrow \phi$ に。



r.m.s = 964 mm
 max = 2.966 mm
 SPA23
 min = -3.941 mm
 SP61F5
 941 mm
 @ SP61F5
 (1102 ± 243 mm)
 r.m.s = 1.13 mm
 max = 1.847 mm
 SPR022
 min = -6.704 mm
 SP61F1
 828 mm
 @ SP564
 (1072 ± 11 mm)
 .013 nC
 @ SP61F5
 (012 ± 001 nC)
 29.704

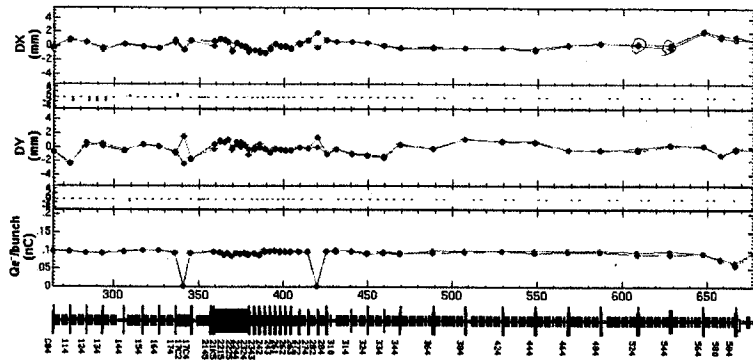
St. off



r.m.s = 1.051 mm
 max = 3.072 mm
 SPA11
 min = -4.444 mm
 SP17C2
 544 mm
 @ SP61F5
 (1922 ± 388 mm)
 r.m.s = 962 mm
 max = 1.857 mm
 SPR022
 min = -4.48 mm
 SP61F1
 824 mm
 @ SP564
 (1015 ± 147 mm)
 .011 nC
 @ SP61F5
 (012 ± 002 nC)
 43.04

QM off

Electron Linac/ARBT Orbit



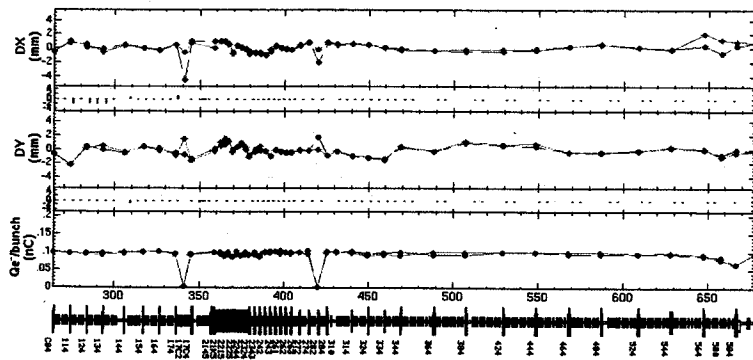
r.m.s = 1.70 mm
 max = 2.325 mm
 SP564
 min = -7.623 mm
 SPQWFE_1M
 695 mm
 @ SPQD_1E_1M
 (695 ± 8mm)
 r.m.s = 1.385 mm
 max = 4.135 mm
 SPQRD1_1A
 min = -4.451 mm
 SPQRD4_1A
 553 mm
 @ SP424
 (7062 ± 4508E-)
 .099 nC
 @ SPQX2E
 (056 ± 0 nC)
 1.039

上流の軌道を
 補正可

実は BS-58-11に
 磁場が かかっていた

range DX Auto + Fix (5) ▲ ▼ DY Auto + Fix (5) ▲ ▼ D Auto + Fix (2) ▲ ▼ e/n 4 ▲ ▼ Rej
 h f c n1 n2 n3 n4 n5 6 g1 g2 Clear Statistics Standard E

Electron Linac/ARBT Orbit

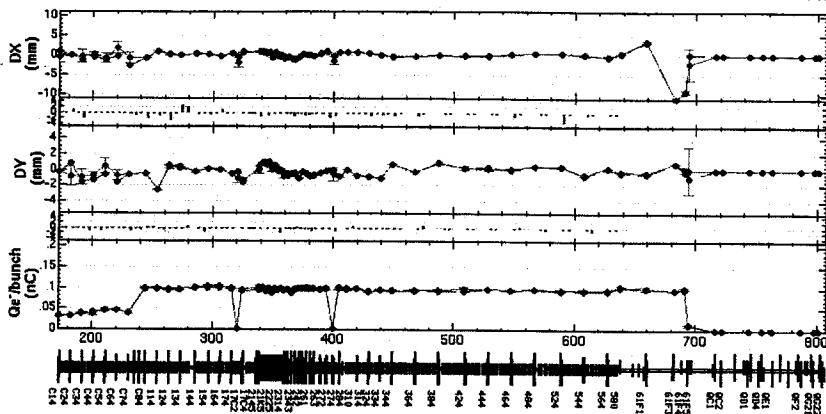


r.m.s = 1.723 mm
 max = 2.58 mm
 SPA21
 min = -7.623 mm
 SPQWFE_1M
 535 mm
 @ SPQD_1E_1M
 (695 ± 8mm)
 r.m.s = 1.287 mm
 max = 4.135 mm
 SPQRD1_1A
 min = -4.451 mm
 SPQRD4_1A
 553 mm
 @ SPA23
 (7062 ± 4508E-)
 .099 nC
 @ SPQX2E
 (059 ± 0 nC)
 .987

SX-55-11
 -1.149 CAJ
 流す

range DX Auto + Fix (5) ▲ ▼ DY Auto + Fix (5) ▲ ▼ D Auto + Fix (2) ▲ ▼ e/n 4 ▲ ▼ Rej
 h f c n1 n2 n3 n4 n5 6 g1 g2 Clear Statistics Standard E

measured 01/12/2007 19:13:38



r.m.s = 1.766
 max = 3.427
 @ SP61F1
 min = -10.951
 @ SP61F3
 -0.43 mm
 @ SP684
 (-0.9) ± 0.01mm

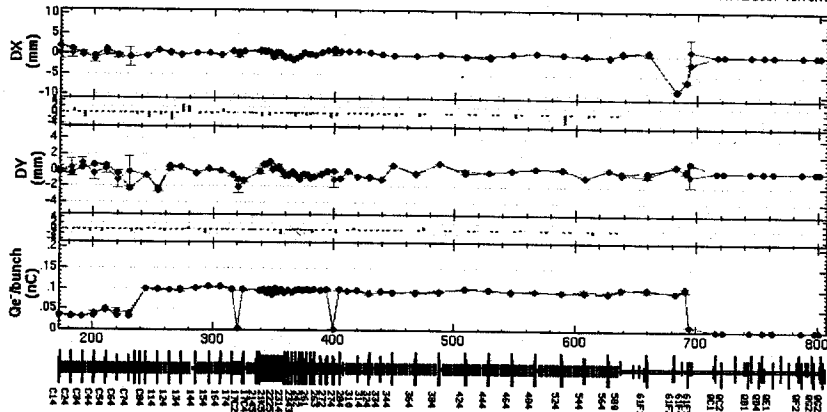
r.m.s = 0.96 r
 max = 2.074
 @ SPR022
 min = -3.346
 @ SPB34
 0.56 mm
 @ SP564
 (-0.85) ± 0.02mm

.015 nC
 @ SP61F1
 (.011) ± 0.002

2.97

BS58-1
 ØA
 Energy knob
 2.5068

measured 01/12/2007 19:15:12



r.m.s = 1.493 r
 max = 2.132 r
 @ SPA44
 min = -8.721
 @ SP61F3
 -8.721 mm
 @ SP61F3
 (-8.97) ± 0.07mm

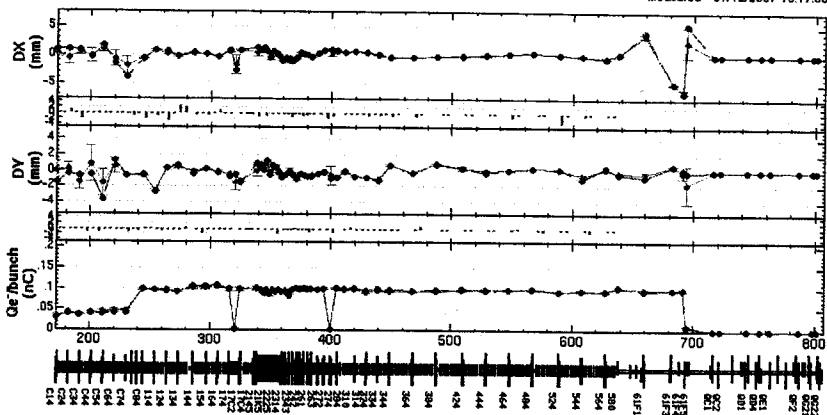
r.m.s = 0.95 m
 max = 1.864 r
 @ SPR022
 min = -2.427
 @ SPA44
 1.67 mm
 @ SP564
 (-2.4) ± 0.02mm

.012 nC
 @ SP61F1
 (.011) ± 4.725

2.97

BS58-1
 ØA
 Energy knob
 2.5023

measured 01/12/2007 19:17:03



r.m.s = 1.451 r
 max = 5.517 r
 @ SP61F5
 min = -6.432 r
 @ SP61F4
 -4.016 mm
 @ SP51F3
 (-4.016) ± 0.960

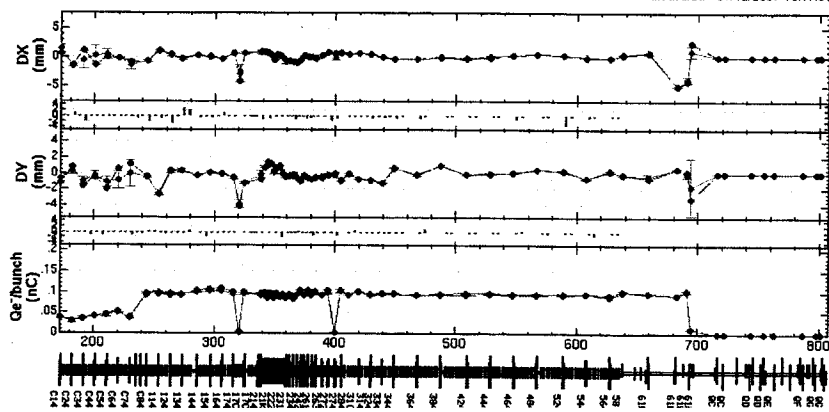
r.m.s = 0.99 m
 max = 1.997 r
 @ SPA1C5
 min = -3.64 m
 @ SPC54
 0.89 mm
 @ SP564
 (-1.17) ± 0.27mm

.011 nC
 @ SP61F1
 (.011) ± 4.660

2.94

BS58-1 0.3A
 E.K. 2.5023

measured 01/12/2007 19:17:51



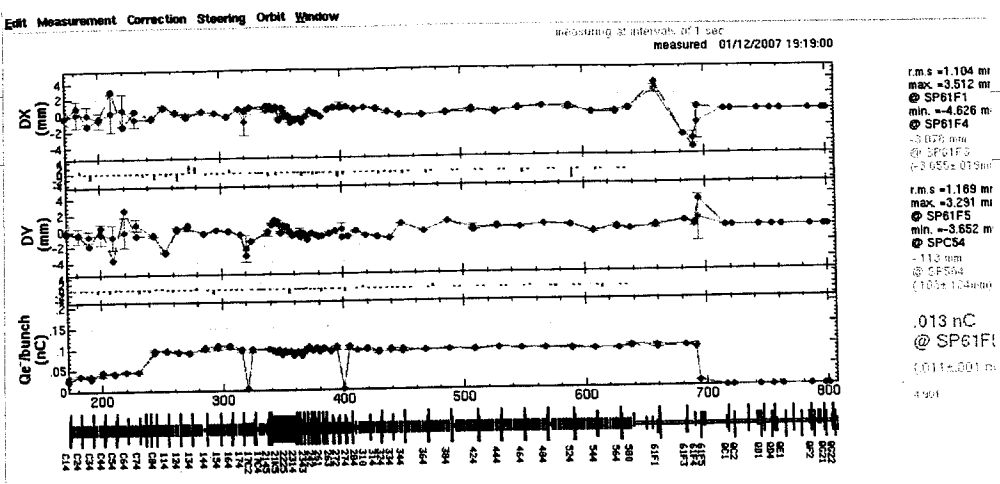
r.m.s = 1.211 r
 max = 3.339 r
 @ SPR032
 min = -4.993 r
 @ SP61F3
 -4.083 mm
 @ SP61F1
 (-4.09) ± 0.960

r.m.s = 1.016 r
 max = 3.216 r
 @ SPR022
 min = -4.058 r
 @ SP17C2
 2.05 mm
 @ SP564
 (-0.8) ± 0.05mm

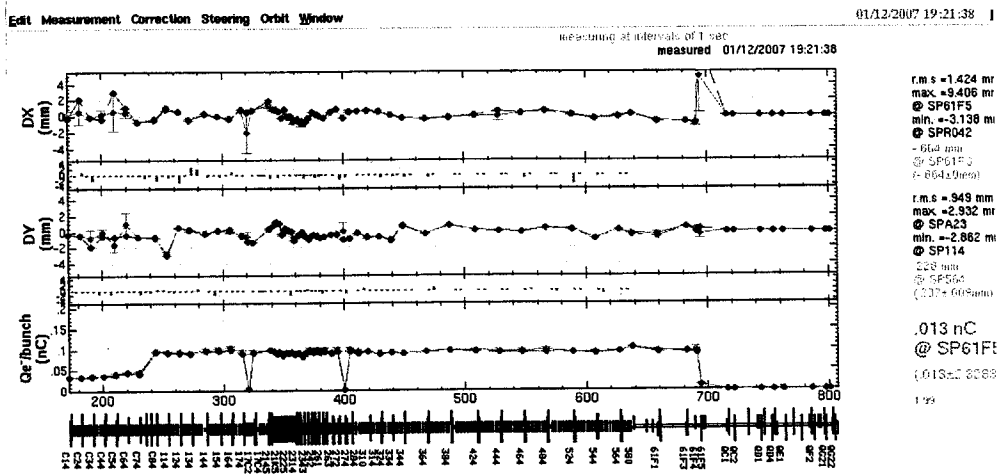
.012 nC
 @ SP61F1
 (.013) ± 4.705

2.97

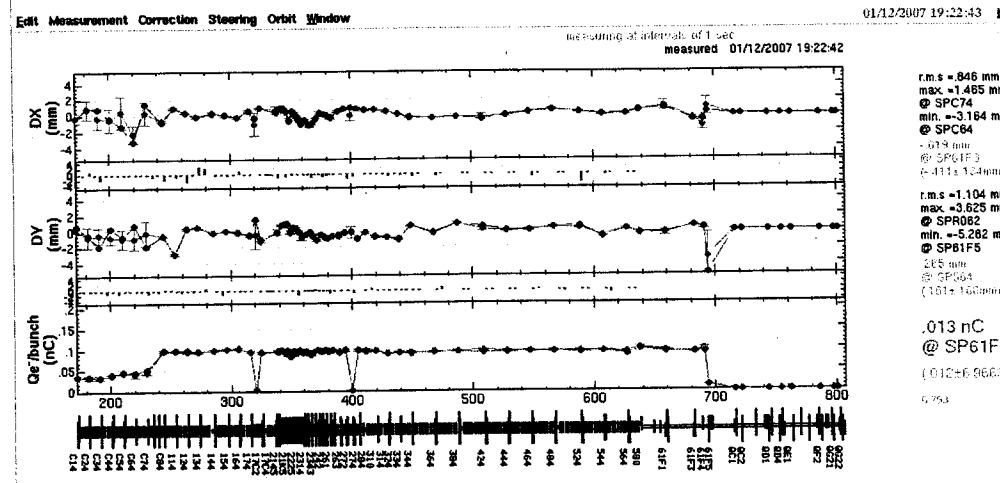
BS58-1 0.3A
 EK. 2.4978



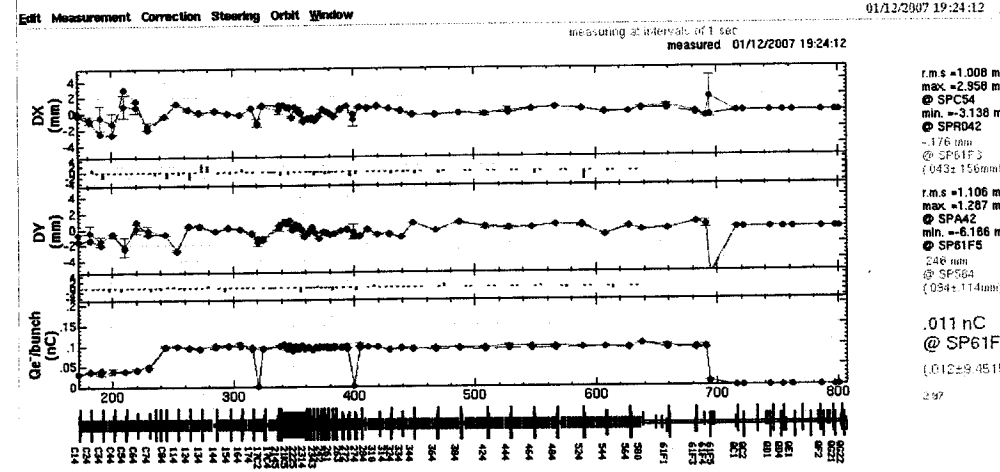
BS58-1 0.6A
EK 2.4933



BS58-1 0.6A
EK 2.4933



BS58-10.7A
EK 2.4933



BS58-1 0.7A
EK 2.4918

OK

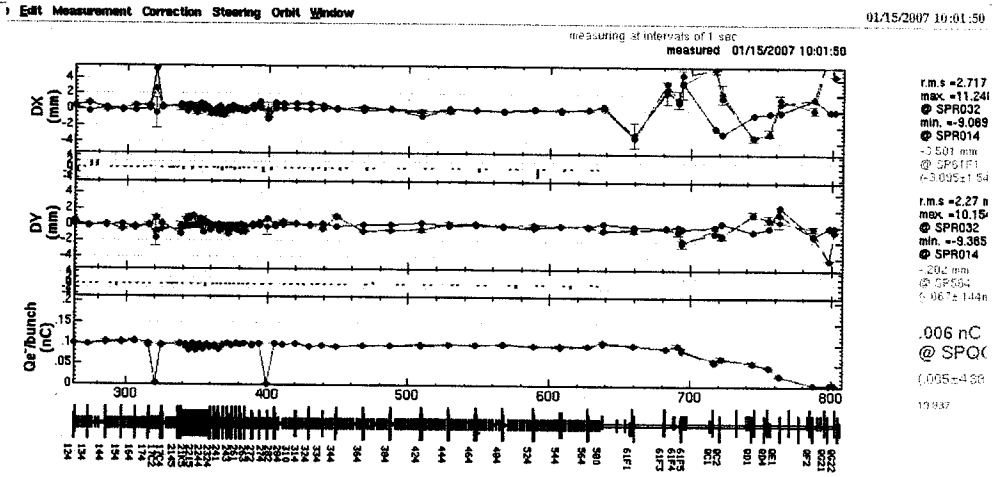
01/12: 月曜日. PF ring に入身

67 2007/1/15

紙谷 飯田 (Kfak) 工藤 (三十)

RF ring の BT 調整

10:00



dispersion 17. design 1 = 1/10 n.

PF 側 (小林氏) 5%. エネルギー - ± 0.2% 下げよう要請された

Energy Scan	入射率 (mA/s)	charge (nC)
2.4717	0.141	0.050
2.4756	0.220	0.06
2.4794	0.254	0.062
2.4833	0.253	0.069
2.4872	0.128	0.072
<hr/>		
E. Knob	Energy F1 X (mm)	
2.4807	-4.9	0.228
2.4846	-1.44	0.288
2.4885	1.126	0.200
2.4923	3.91	0.08
2.4872	0.09	0.248
2.4820	-3.70	0.256
2.4782	-6.92	0.148
2.4846	-2.34	0.263
2.4885	0.60	0.208
2.4846	-1.95	0.283

結局、I 補正 -17. QC2 の Screen Position 7 調整

14:29

PF-BT line 調整 (N=1.000)

6/F1 2 -6.1 mm
 F4 2 4.3 mm
 F5 2 7.6
 QC1 +1.0 mm < 54
 QC2 2 -2.0 mm

BM_58	153.895
6L	153.260
6L	116.679
QF_6L	14.496
QD_6L	13.453
QF_6L	0.408
QD_6L	0.187

Program名: CKPFBT-energy scall. tal
 E 使用 LE
 但各 magnet 電流値は (現在値) に修

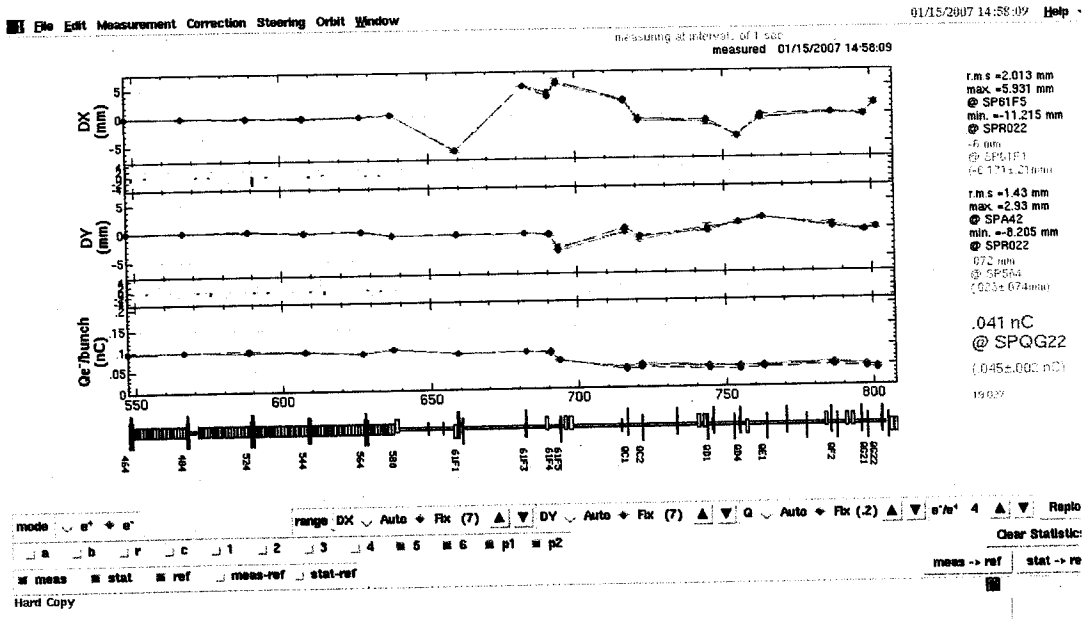
14:31

N = ~~0.995~~

~~N = 0.9995~~ PF-BT magnet 初期化やり直し

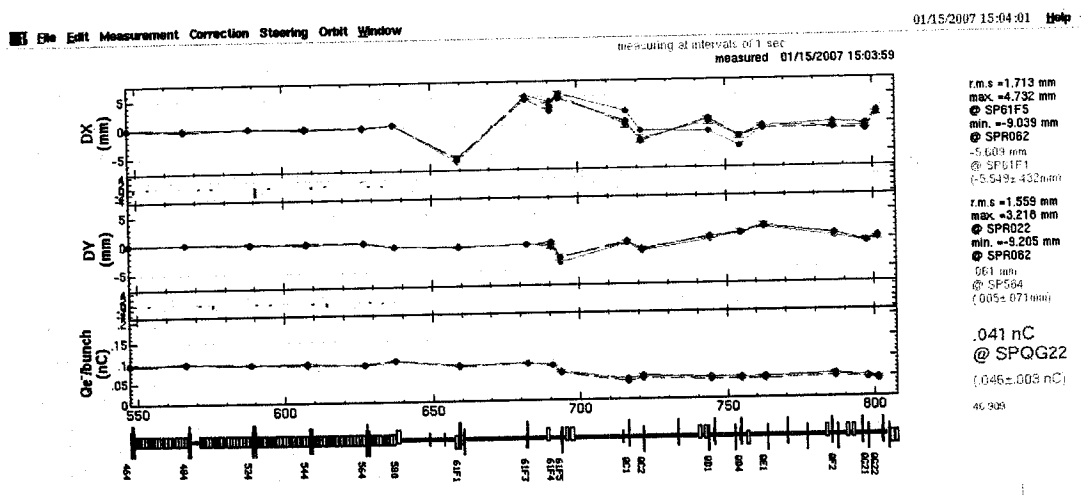
14:58

N = 1.000



15:04

N = 0.9995 6/F1 2 -5.0 mm



69

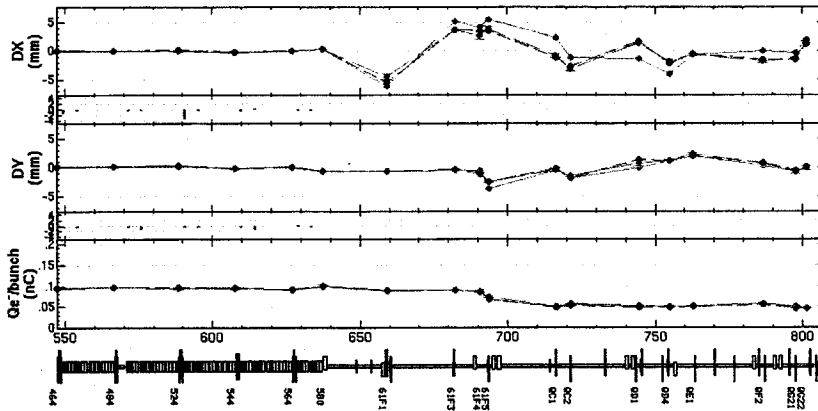
15:08

N = 0.999

File Edit Measurement Correction Steering Orbit Window

01/15/2007 15:08:09 Help

measuring at intervals of 1 sec
measured 01/15/2007 15:08:08



r.m.s = 1.795 mm
 max = 9.416 mm
 @ SPR022
 min = -5.476 mm
 @ SP01F1
 (-4.543 ± 570um)

r.m.s = 1.486 mm
 max = 10.138 mm
 @ SPR022
 min = -3.583 mm
 @ SPA21
 -0.21 mm
 @ SP004
 (-0.25 ± 0.02mm)

.045 nC
 @ SPQG22
 (0.046 ± 0.027025 nC)

394

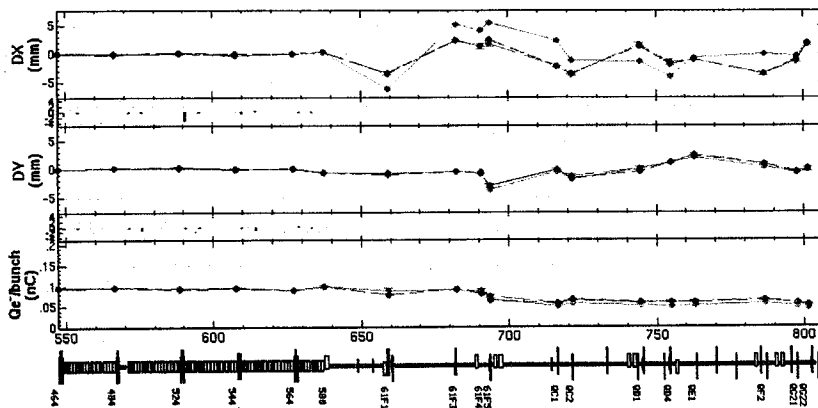
15:00

N = 0.9985

File Edit Measurement Correction Steering Orbit Window

01/15/2007 15:10:33 Help

measuring at intervals of 1 sec
measured 01/15/2007 15:10:33



r.m.s = 1.365 mm
 max = 3.059 mm
 @ SPB34
 min = -3.807 mm
 @ SPB14
 -0.575 mm
 @ SP01F1
 (-3.262 ± 306um)

r.m.s = 1.139 mm
 max = 2.387 mm
 @ SPC34
 min = -3.521 mm
 @ SPC44
 -0.17 mm
 @ SP004
 (-0.66 ± 0.11mm)

.054 nC
 @ SPQG22
 (0.055 ± 0.02 nC)

394

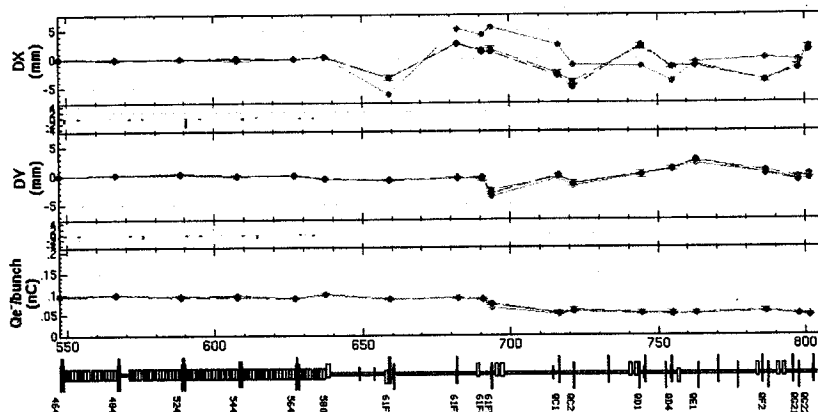
15:18

N = 0.9980

File Edit Measurement Correction Steering Orbit Window

01/15/2007 15:18:21 Help

measuring at intervals of 1 sec
measured 01/15/2007 15:18:22



r.m.s = 1.869 mm
 max = 9.932 mm
 @ SPR083
 min = -9.118 mm
 @ SPR042
 -0.241 mm
 @ SP01F1
 (-3.26 ± 51um)

r.m.s = 1.75 mm
 max = 8.752 mm
 @ SPR083
 min = -8.302 mm
 @ SPR042
 -1.11 mm
 @ SP004
 (-0.63 ± 0.3mm)

.048 nC
 @ SPQG22
 (0.048 ± 0.03 nC)

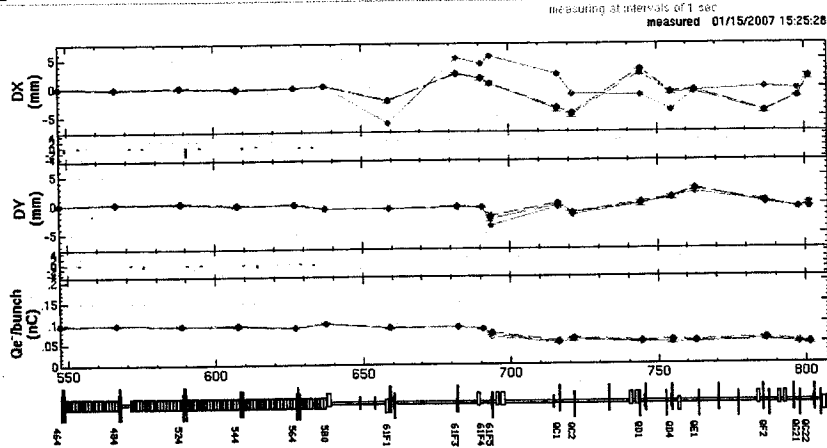
394

15:22

N = 0.9975

Edit Measurement Correction Steering Orbit Window

01/15/2007 15:25:27 Help



r.m.s = 1.897 mm
max = 9.932 mm
@ SPR083
min. = -9.069 mm
@ SPR014
-2.176 mm
@ SPQ1F1
(-2.071 ± 252mm)

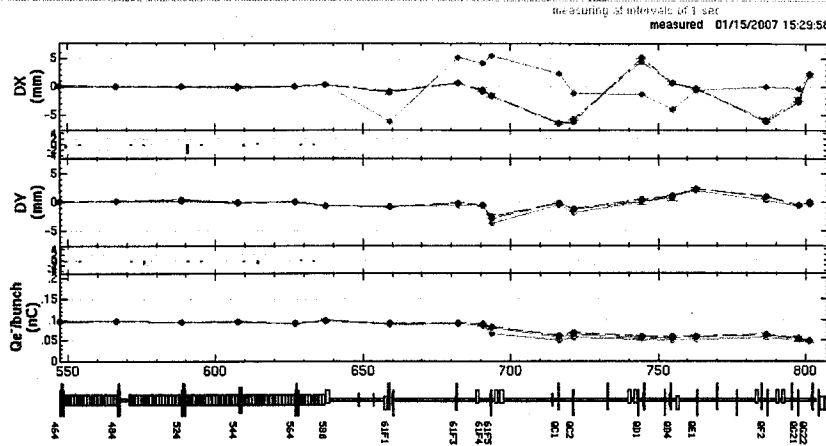
r.m.s = 1.655 mm
max = 6.762 mm
@ SPR083
min. = -9.385 mm
@ SPR014
-11 mm
@ SPB64
(-0.0 ± 65mm)

.051 nC
@ SPQG22
(0.047 ± 0.002 nC)
5642

N = 0.9970

Edit Measurement Correction Steering Orbit Window

01/15/2007 15:29:57 Help



r.m.s = 1.68 mm
max = 5.126 mm
@ SPQD1
min. = -6.561 mm
@ SPQC1
-70 mm
@ SPQ1F1
(-89 ± 261mm)

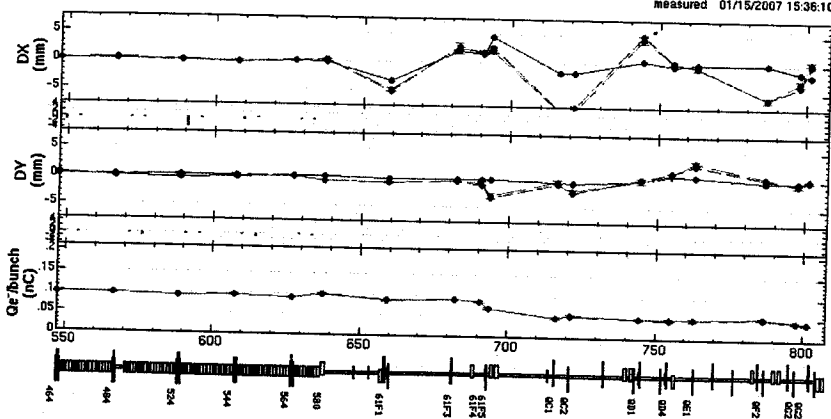
r.m.s = 1.059 mm
max = 2.534 mm
@ SPQ24
min. = -3.725 mm
@ SPB14
-11 mm
@ SPB64
(-0.0 ± 65mm)

.052 nC
@ SPQG22
(0.049 ± 0.005 nC)
5652

Energy knob. 2.4619 $\frac{eV}{\text{bunch}}$ → 2.4717 → 2.4756 → 2.4640 $\frac{eV}{\text{bunch}}$

Edit Measurement Correction Steering Orbit Window

01/15/2007 15:36:10 Help



r.m.s = 2.201 mm
max = 11.328 mm
@ SPA32
min. = -8.428 mm
@ SPQC1
-5.147 mm
@ SPQ1F1
(-4.986 ± 285mm)

r.m.s = 1.105 mm
max = 2.652 mm
@ SPA24
min. = -3.451 mm
@ SPB34
072 mm
@ SPB64
(0.035 ± 674mm)

.041 nC
@ SPQG22
(0.043 ± 0.003 nC)
13.125

007 15:33:09

