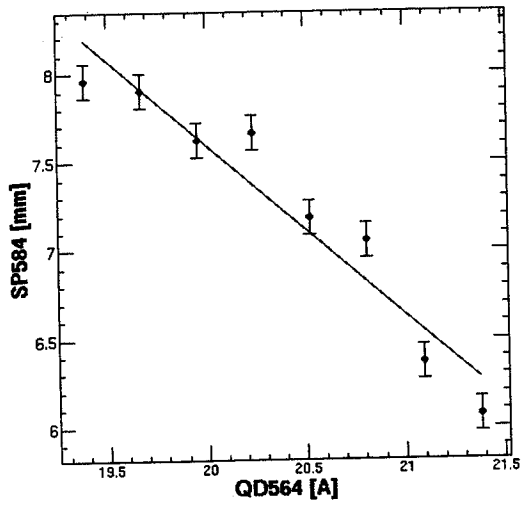
61



01/12/2007 15:02:24 Help

Condition
BPM to be Calibrated :
SP580
Direction :
◆ Horizontal ○ Vertical
Used Components :
BPM : SP580
Steering : {{"SX553",1}}
from -2
to -.5
number 4
Q magnet: QD564
from -1
to 1
number 8
next remem. save
GO STOP READ

Display
BPM : SP584
Steering step : 1

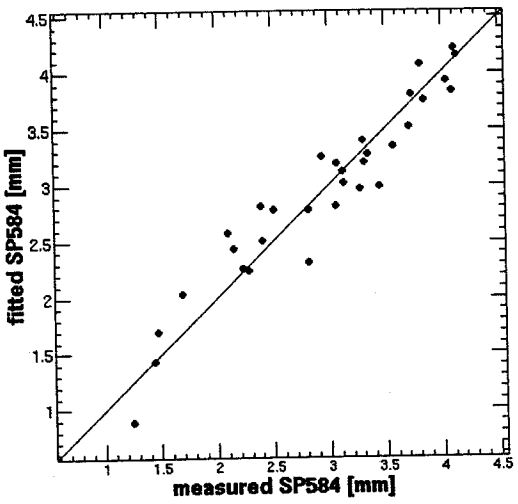
Result
When the beam is at the Q center :
BPM reading [mm]: 1.36399
error [mm]: 1.61761
Last BPM taken into account :
SP584
rel. curr. thresh. : .05
Fit Chk I Save

error 大. 要再測定.

File Edit Window 01/12/2007 15:53:32 Help

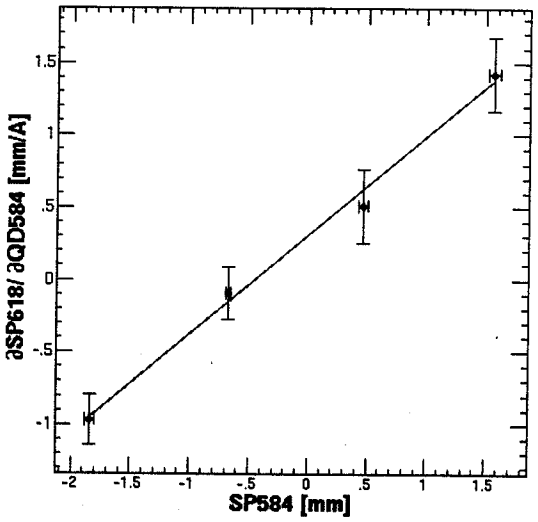
Hor. SP580

residual = .265 mm



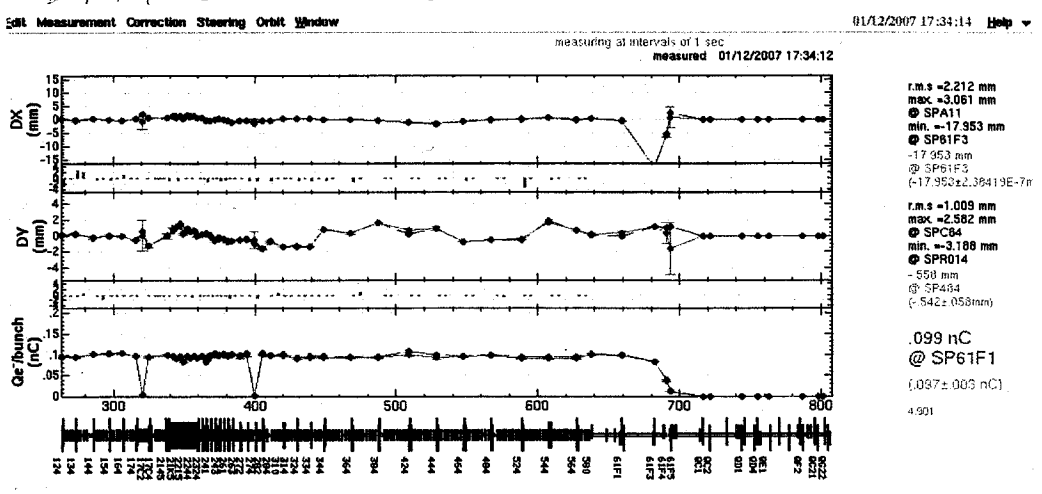
Condition
BPM to be Calibrated :
SP580
Direction :
◆ Horizontal Vertical
Used Components :
BPM : SP580
Steering : {{"SX553",1}}
from -1
to -.5
number 4
Q magnet: QD564
from -2
to 2
number 8
next remem. save
GO STOP READ
Display
BPM : Steering step :
SP584 Fit0
Result
When the beam is at the Q center :
BPM reading [mm]: .27355
error [mm]: .25345
Last BPM taken into account :
SP584
rel. curr. thresh. : .6
Fit Chk I Save

Hor SP584

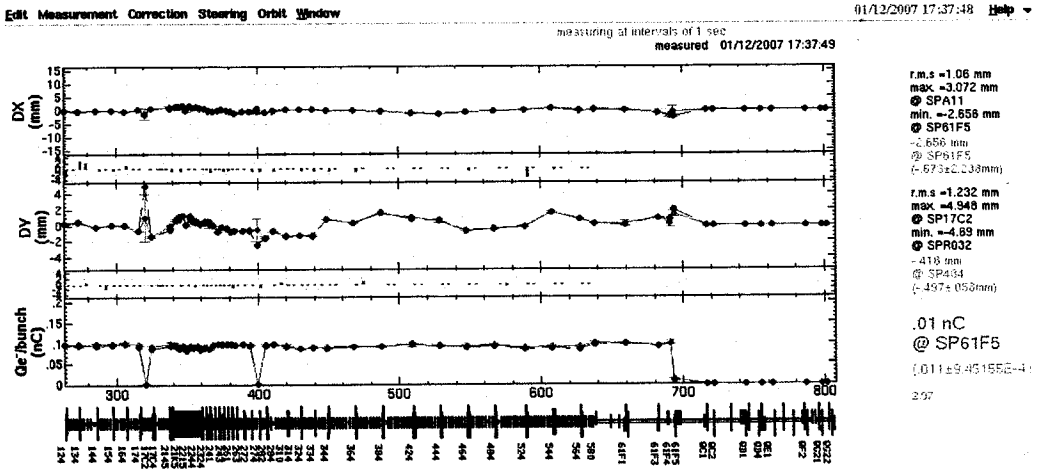


Condition
BPM to be Calibrated :
SP584
Direction :
◆ Horizontal Vertical
Used Components :
BPM : SP584
Steering : {{"SX573",1}}
from -.5
to 2
number 4
Q magnet: QD584
from -1
to 1
number 8
next remem. save
GO STOP READ
Display
BPM : Steering step :
SP618 Fit
Result
When the beam is at the Q center :
BPM reading [mm]: -.46643
error [mm]: .05422
Last BPM taken into account :
SP618
rel. curr. thresh. : .6
Fit Chk I Save

17:35 BPM ~~Cath~~ 調整後の軌道



BS58-1 に 1.5[A] かけて Energy Kick を調整した。



SB2が落ちた。

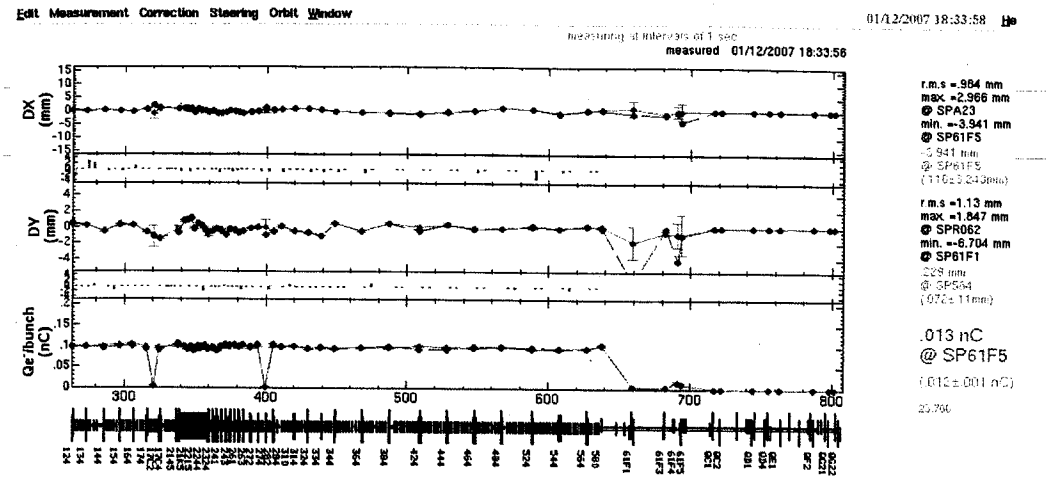
BM58-1 初期化。

18:34 ① まっすぐ通す 544以降の電磁石を0に
既に

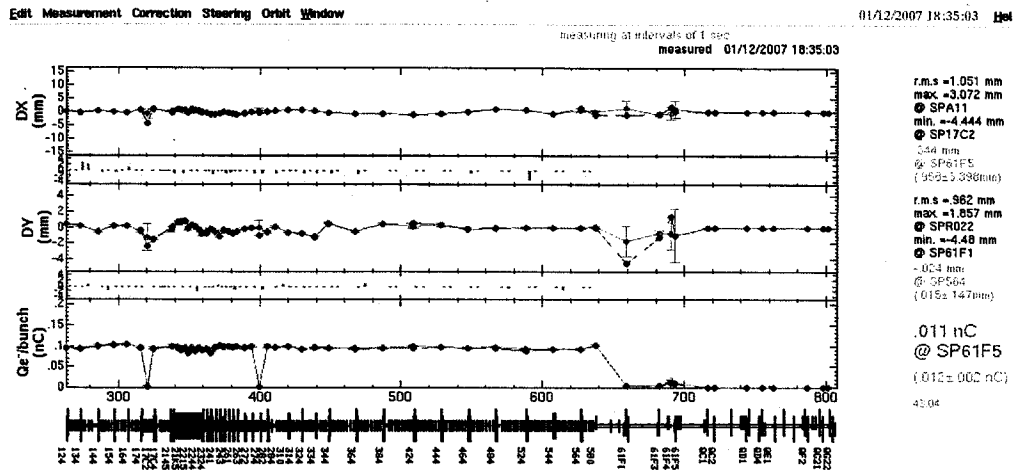
②KLY55. 56. 57 = Stb である。

②St SX55-1 −0.8 → 0 に。
SX53-1 −3.398 は、そのまま。

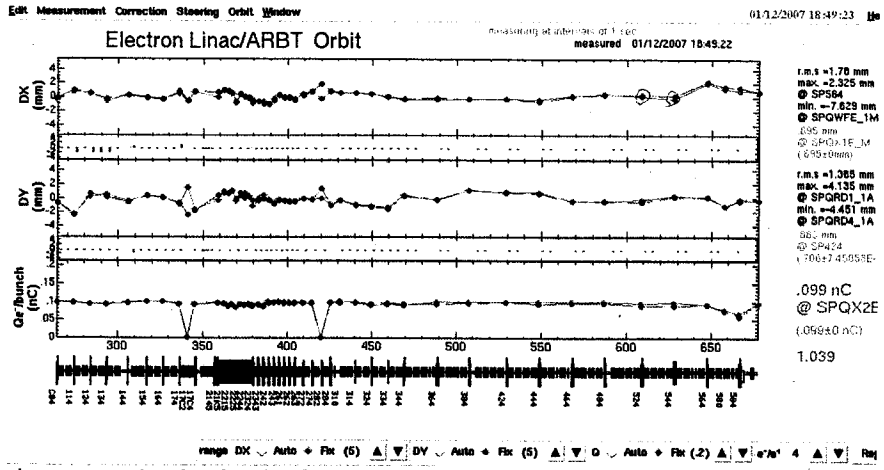
③QM544. QM564 を0に。



St. off

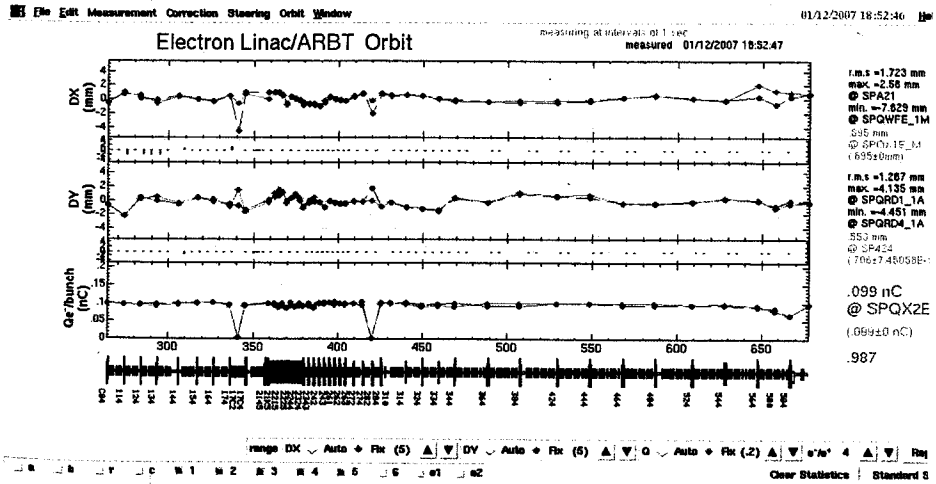


QM off



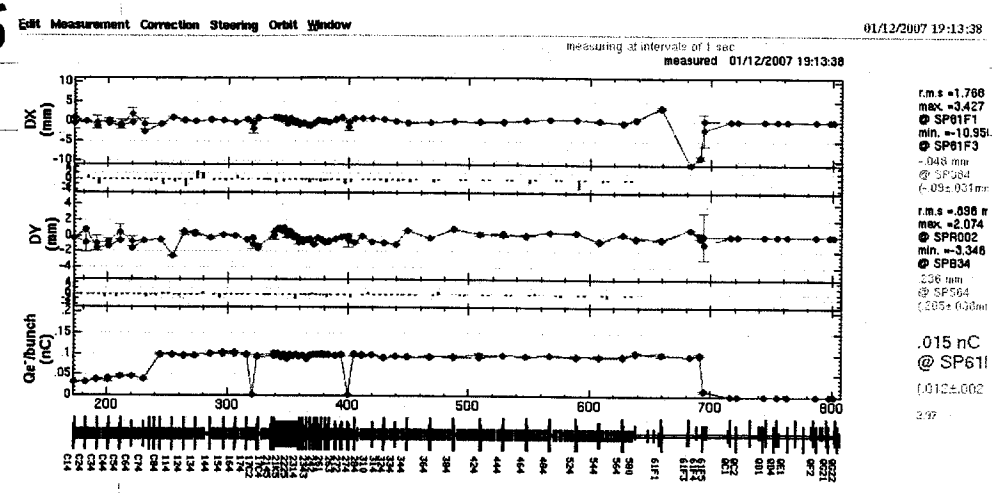
上流の軌道を補正する

実は、BS-58_1に磁場がかかっていた

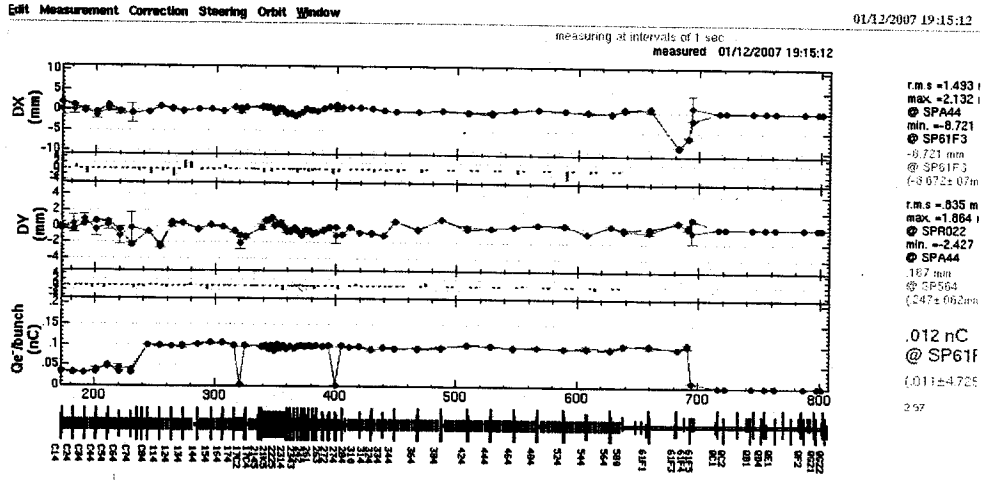


SX-55_1に
-1.149[A]
入す。

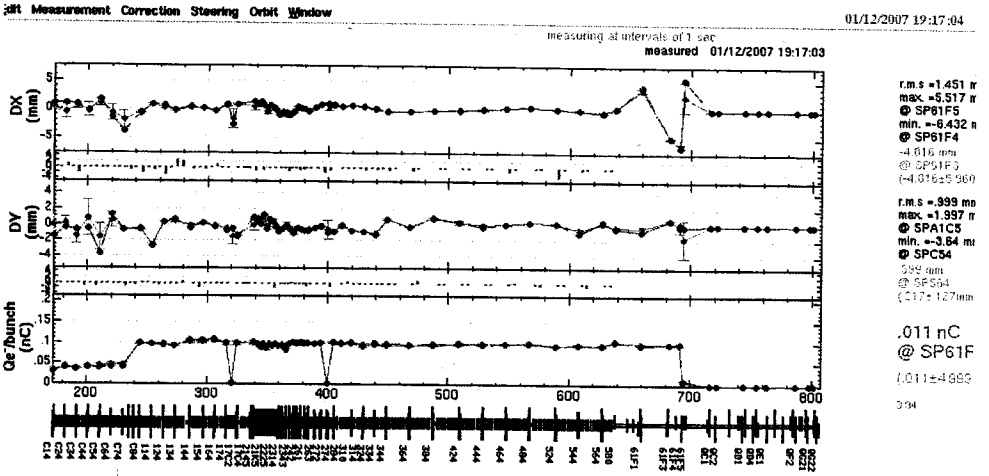
65



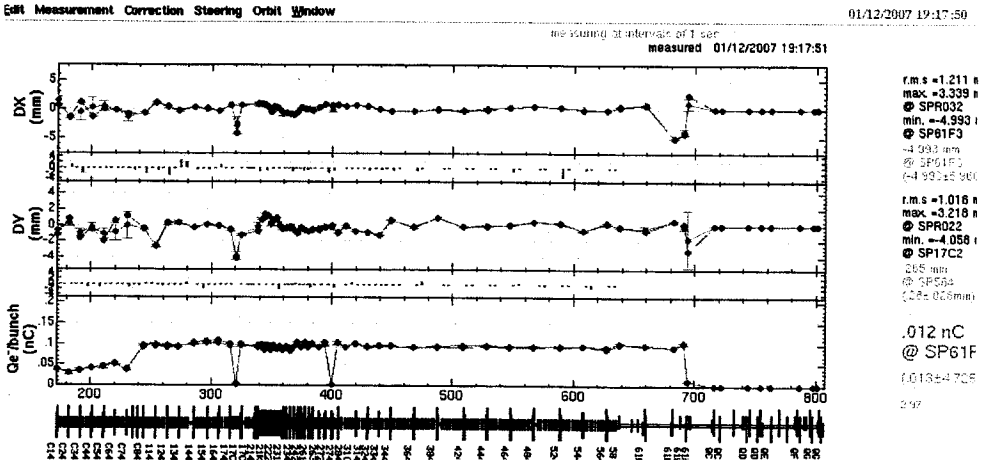
BS58-1
ØA
Energy Knob
2.5068



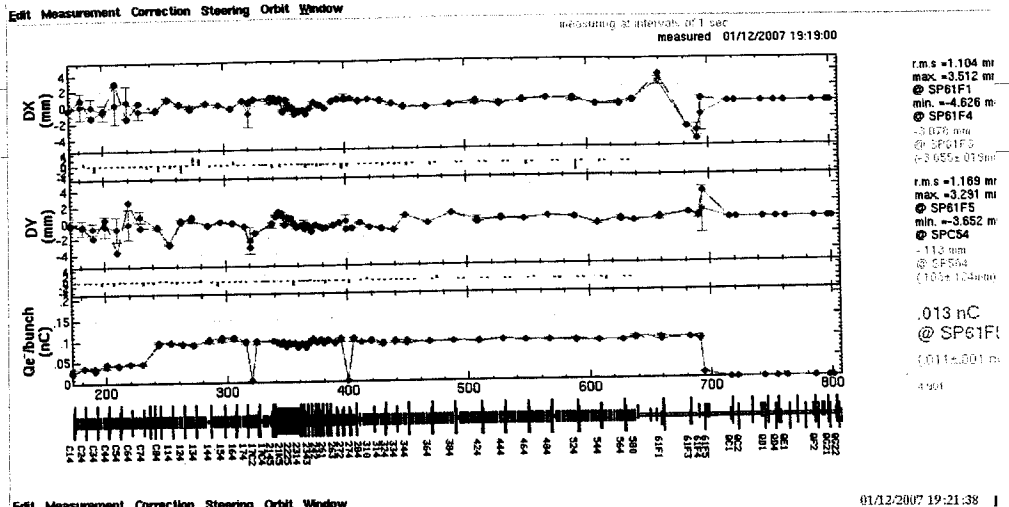
BS58-1
ØA
Energy Knob
2.5023



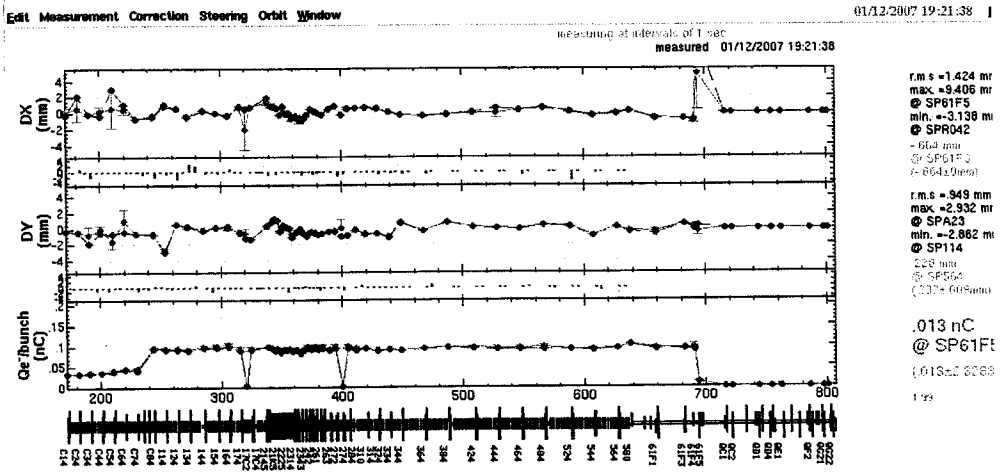
BS58-1 0.3A
E.K. 2.5023



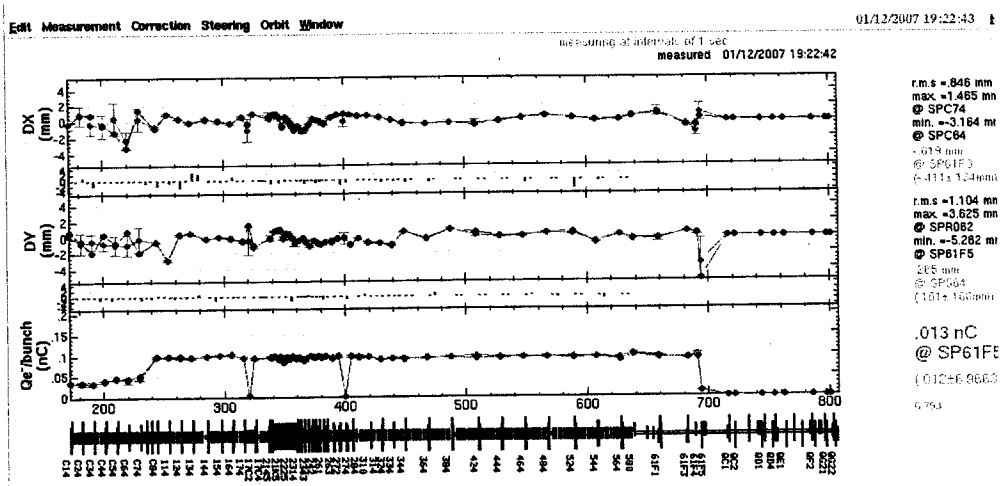
BS58-1 0.3A
EK 2.4978



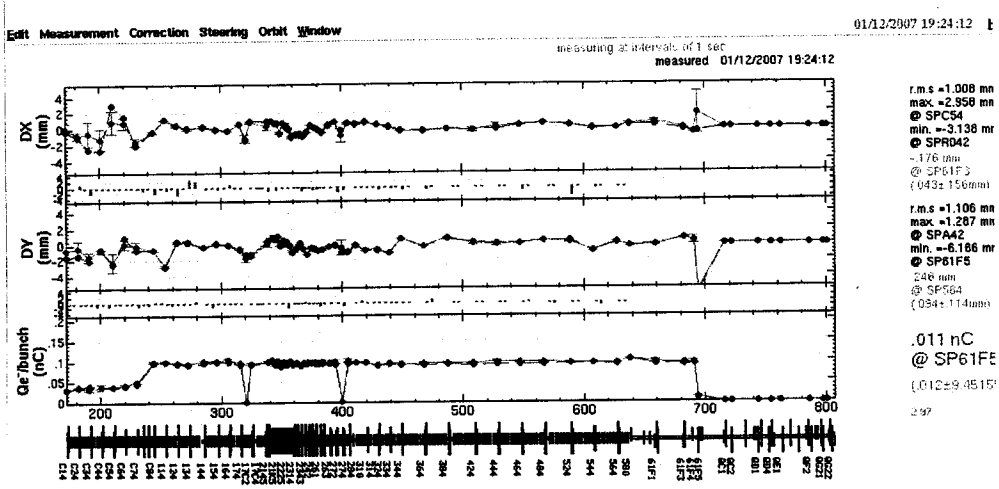
BS 5f_1 0.6A
EK 2.4933



BS5f_1 0.6A
EK 2.4933



BS5f_10.7A
EK 2.4933



BS 5f_1
0.7A

EK. 2.4918

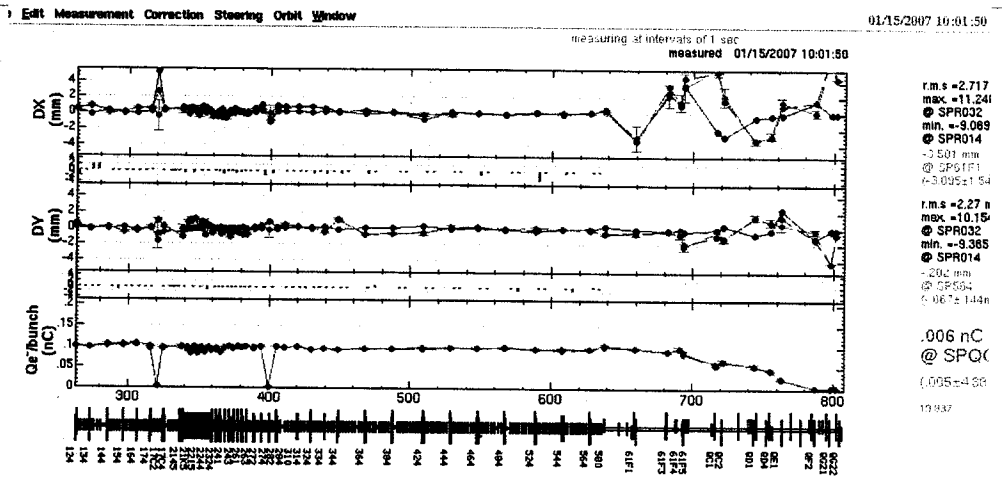
OK.

あと12：月曜日、PF ring に入射予

67 '07/1/15 紙谷. 飯田(KEK) 工藤(三十)

RF ring への BT 調整

10:00



dispersion は. design に近い.

PF 側(小林氏)より. エネルギーを 0.2% 下げるよう要請される

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

Energy Knob が 再現性なし.

E. Knob	Energy F1 X (mm)		
2.4807	-4.9	0.228	0.064
2.4846	-1.44	0.288	0.074
2.4885	1.126	0.200	0.074
2.4923	3.91	0.08	0.075
2.4872	0.09	0.248	0.074
2.4820	-3.70	0.256	0.066
2.4782	-6.92	0.148	0.061
2.4846	-2.34	0.263	0.068
2.4885	0.60	0.208	0.072
2.4846	-1.95	0.283	0.071

結局 エネルギーは QC2 の Screen Position で決まる

BM_58	153.895
61_	153.260
61_	116.679
QF_61_	14.496
QD_61_	13.453
QF_61_	0.4081
QD_61	0.1897

14:29 PF-BT line 調整 (N=1.000)

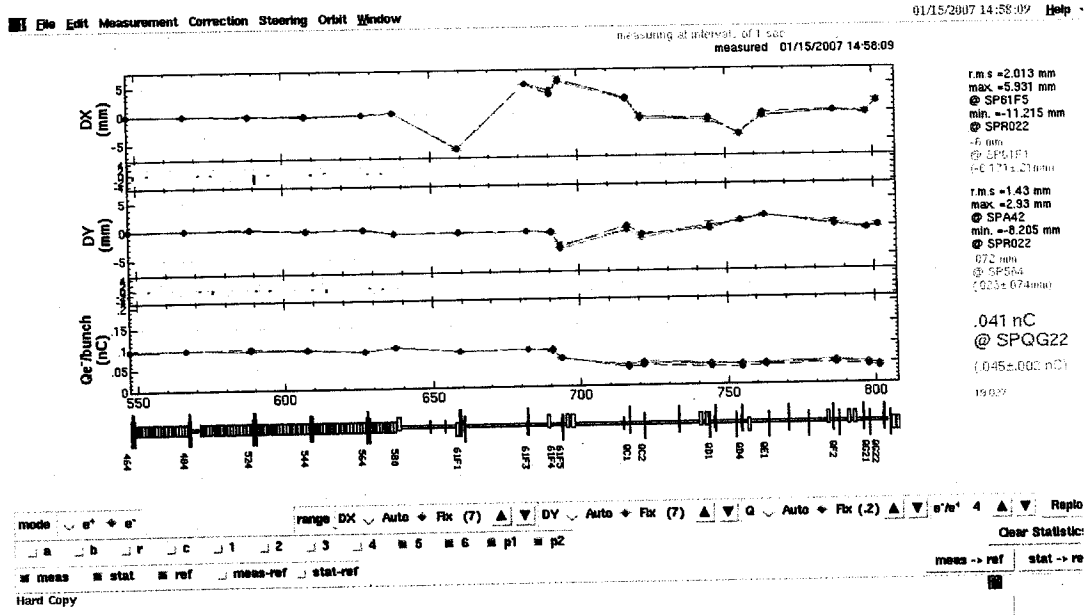
61F1 x -6.1 mm
F4 x 4.3 mm
F5 x 7.6
QC1 +1.0 mm ぐらい
QC2 x -2.0 mm

Program名: tkPFBT-energyscall.tal を使用した。
但し各magnet電流値は現在値に修正

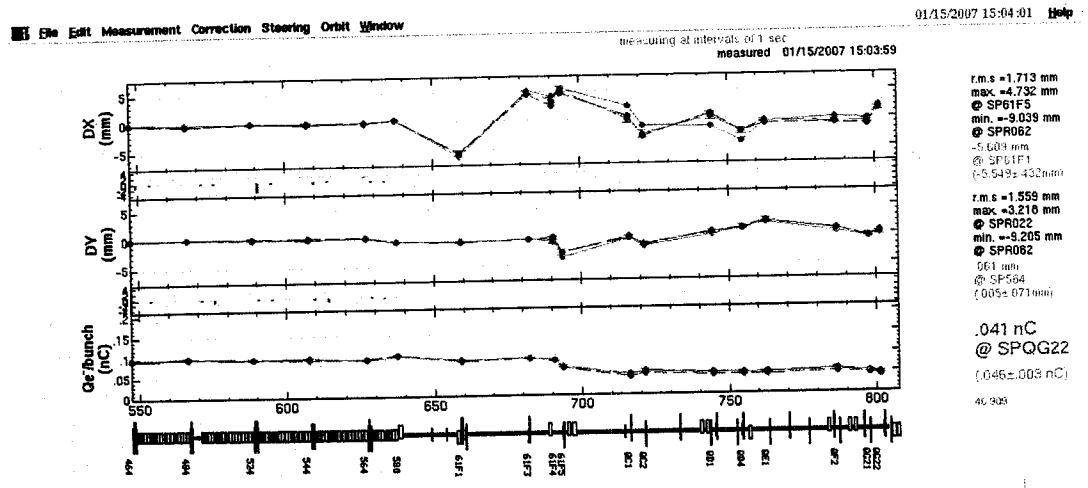
14:31 N = ~~0.995~~

~~N = 0.9995~~ PF-BT magnet 初期化やり直し

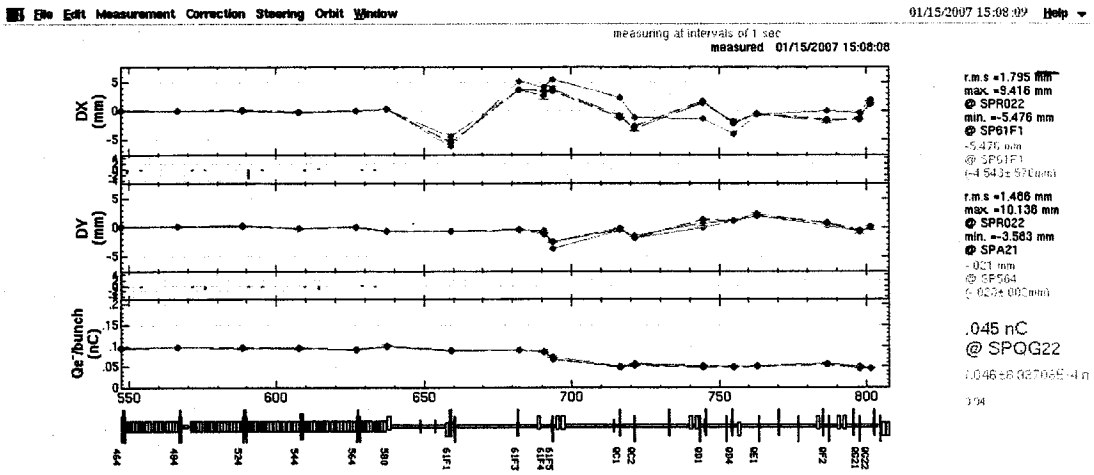
14:58 N = 1.000



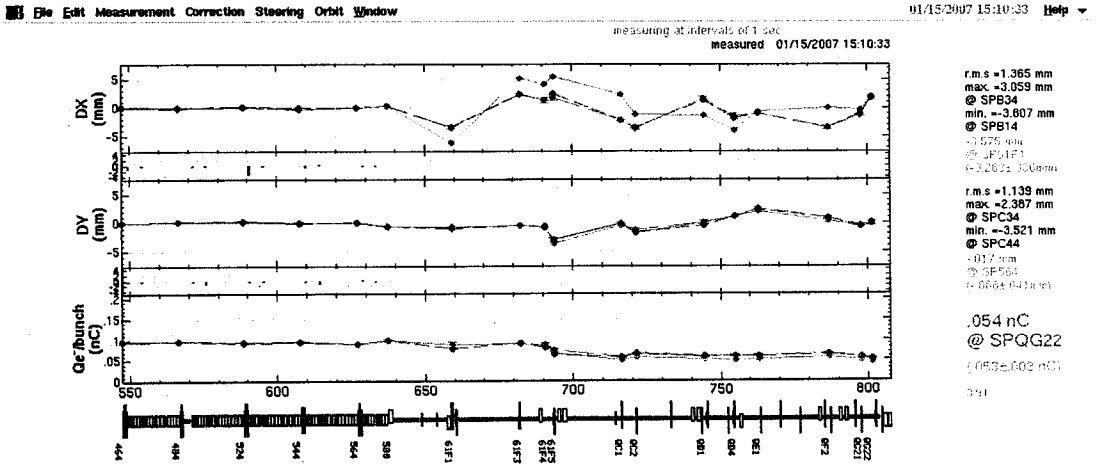
15:04 N = 0.9995 61F1 x -5.0 mm



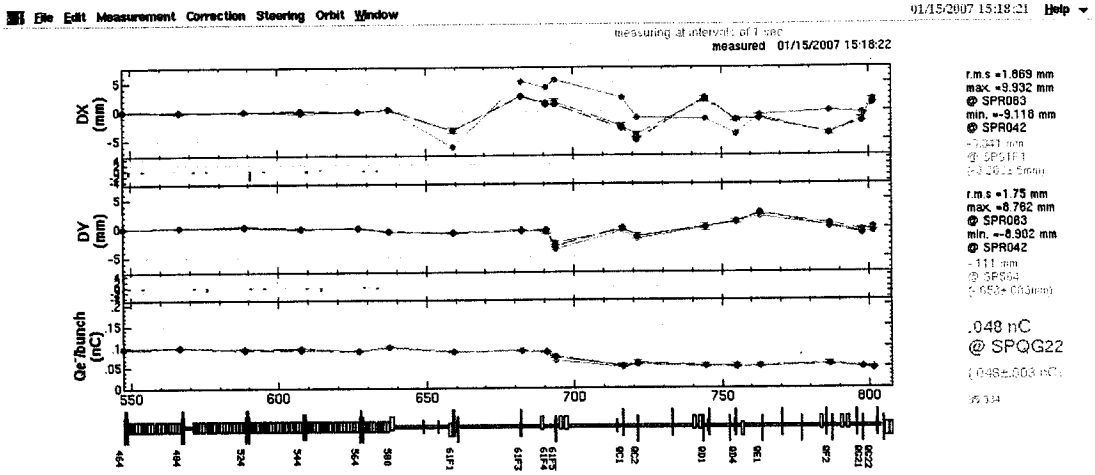
15:08 N = 0.999



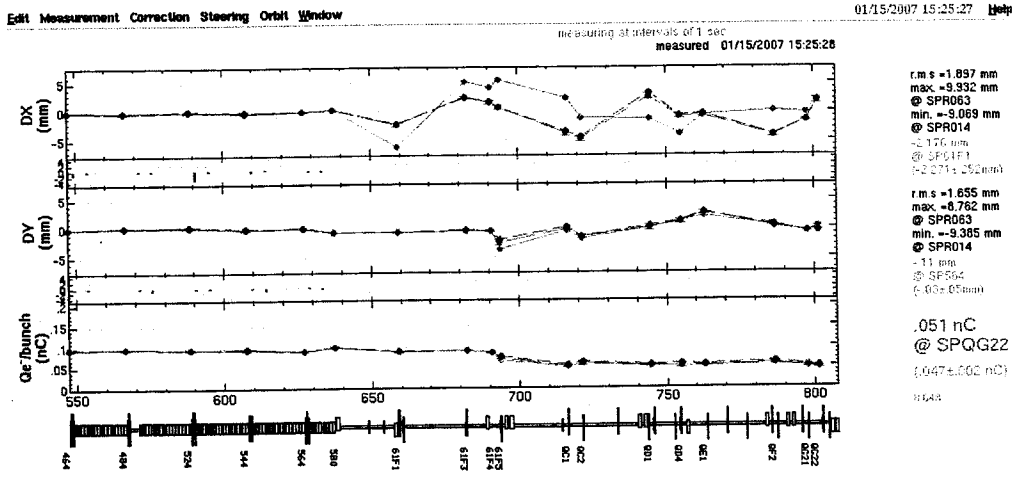
15:10 N = 0.9985



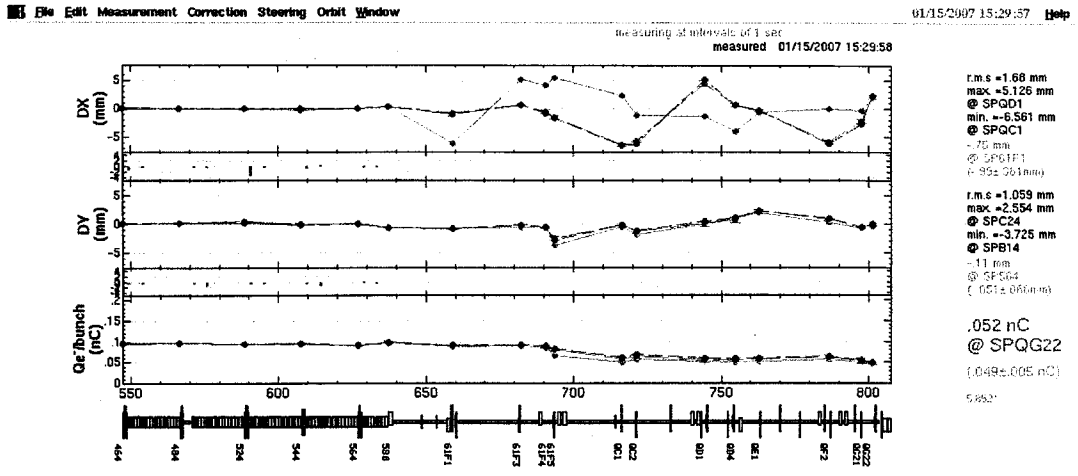
15:18 N = 0.9980



15:22 N = 0.9975



N = 0.9970



Energy knob. 2.4699 元値 → 2.4717 → 2.4756 ↑ 2.4640 ↓