

2008.4.21 (A) Compatible Optics Beam Study

PF-A1 C-4

- E-4の2を改善する $\Delta\phi_{SB-A.B} = -4.0$
- 軌道フィードバック 止める
- ターゲット Zの2を改善する

$$BX-17.41 = 0.0 \rightarrow +0.501 \rightarrow 0.0$$

$$BX-21.15 = 0.0 \rightarrow -3.999 \rightarrow 0.0$$

Pulse ST1 = 9.2 A \rightarrow 10.3

ST2 = 1.424 A

ST3 = 6.20 A \rightarrow 4.8

ST4 = 0.4 A \rightarrow 0.4

①

10.5

ターゲット2と17.41, 21.15の軌道フィードバックを改善した

②

大西 Optics (Energy Normalization Debug後) を Set した。

③

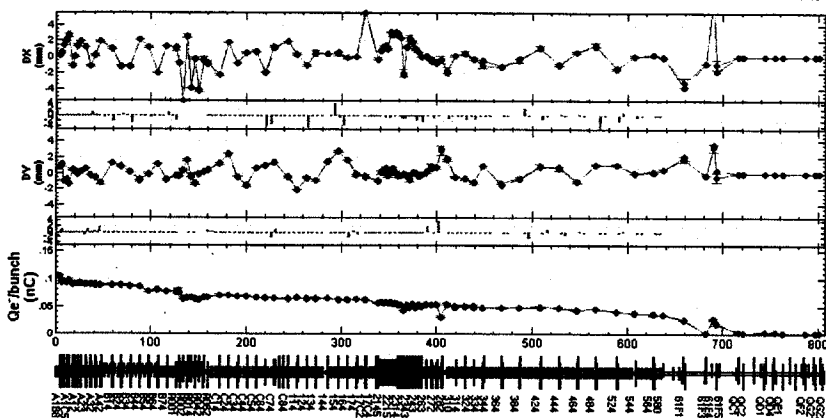
ターゲット OUT
Bump Off.
軌道を補正

↓
QM調整が変更された。
ターゲットの配置も
変化した

File Edit Measurement Correction Steering Orbit Window

04/21/2008 15:41:55 Help

measuring at intervals of 1 sec
measured 04/21/2008 15:41:57



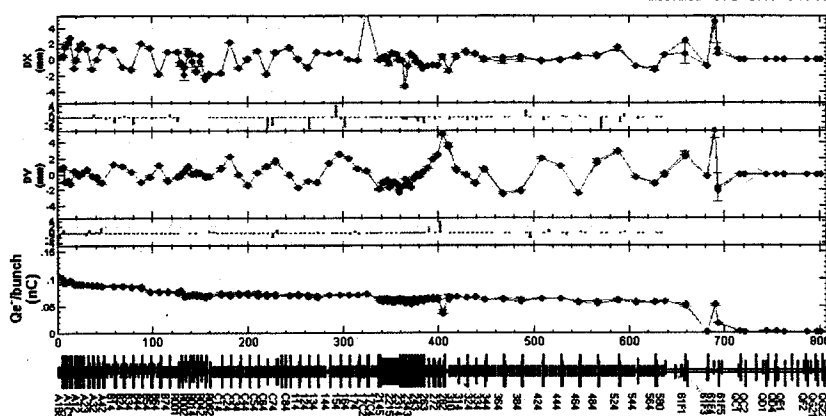
r.m.s = 1.86 mm
max = 7.955 mm
@ SP61F4
min. = -5.468 mm
@ SPR014
1.41 mm
@ SP544
(1.75e-10)mm
r.m.s = 1.004 mm
max = 3.512 mm
@ SP61F4
min. = -2.013 mm
@ SP114
450 mm
@ SP580
(4.14e-10)mm
.036 nC
@ SP580
(0.00e+0) nC
240

mode v a* + a* range DX v Auto + Fix (5) DV v Auto + Fix (5) Q v Auto + Fix (2) e/a* 4 Replot
a b r c 1 2 3 4 5 6 p1 p2 Clear Statistics
mess stat ref mess-ref stat-ref mess -> ref stat -> ref
{DX,DY} = {-.05, -.38} mm, Q/bunch = 3E-3 nC @ SP61F3 statistics (-1.46718, -.23714) mm, 2.93E-372.54E-4 nC

File Edit Measurement Correction Steering Orbit Window

04/21/2008 16:15:05 Help

measuring at intervals of 1 sec
measured 04/21/2008 16:15:03



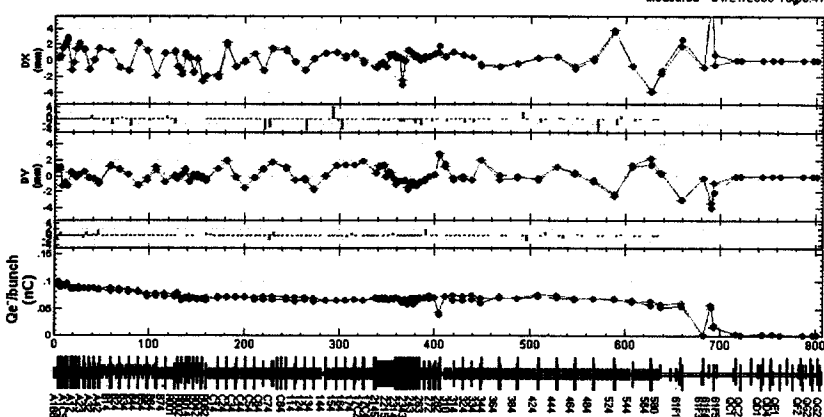
r.m.s = 1.363 mm
max = 6.033 mm
@ SP17C4
min. = -3.345 mm
@ SP242
361 mm
@ SP580
(3.13e-10)mm
r.m.s = 1.495 mm
max = 6.76 mm
@ SP61F4
min. = -2.598 mm
@ SP364
1.34 mm
@ SP580
(3.00e-10)mm
.058 nC
@ SP580
(1.00e+0) nC

mode v a* + a* range DX v Auto + Fix (5) DV v Auto + Fix (5) Q v Auto + Fix (2) e/a* 4 Replot
a b r c 1 2 3 4 5 6 p1 p2 Clear Statistics
mess stat ref mess-ref stat-ref mess -> ref stat -> ref
{DX,DY} = {.79, -1.11} mm, Q/bunch = .06 nC @ SP2215 statistics (.72716, -1.14926) mm, .057.02 nC

File Edit Measurement Correction Steering Orbit Window

04/21/2008 16:35:46 Help

measuring at intervals of 1 sec
measured 04/21/2008 16:35:47



r.m.s = 1.543 mm
max = 6.857 mm
@ SP61F4
min. = -3.763 mm
@ SP564
1.016 mm
@ SP484
(1.77e-10)mm
r.m.s = 1.071 mm
max = 2.576 mm
@ SP264
min. = -4.014 mm
@ SP61F4
1.472 mm
@ SP310
(1.11e-10) 4.901E-10mm
.052 nC
@ SP580
(0.00e+0) nC

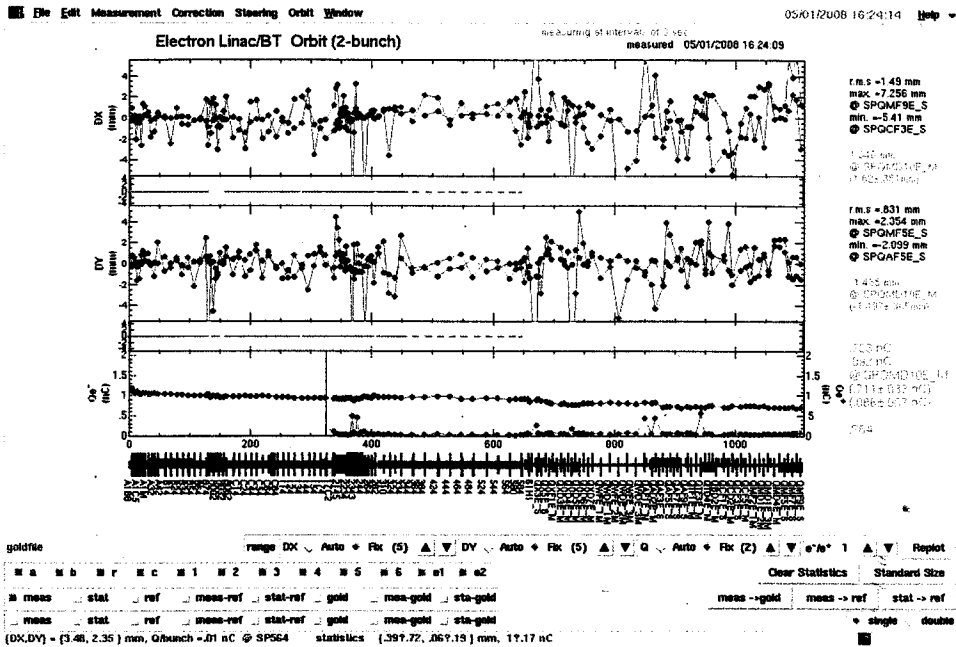
mode v a* + a* range DX v Auto + Fix (5) DV v Auto + Fix (5) Q v Auto + Fix (2) e/a* 4 Replot
a b r c 1 2 3 4 5 6 p1 p2 Clear Statistics
mess stat ref mess-ref stat-ref mess -> ref stat -> ref
3x533 0.85 A

1

2

3

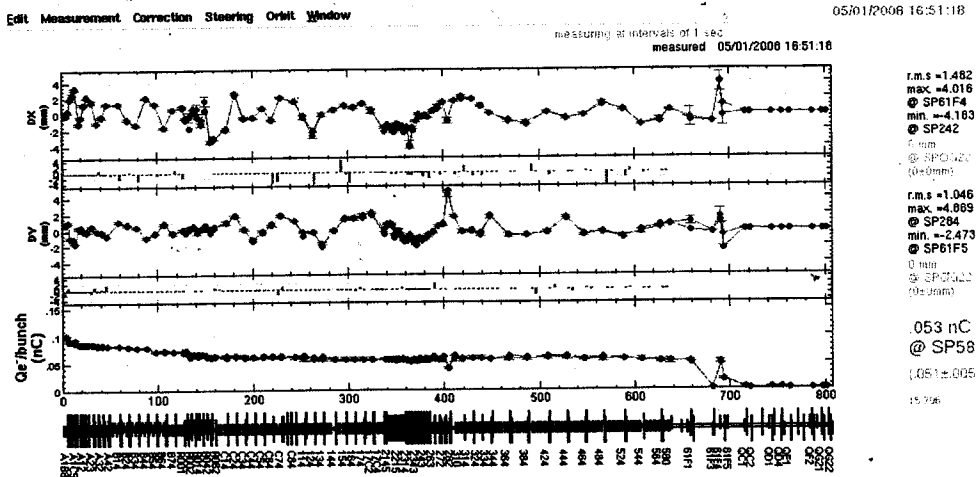
8GeV^e-Li^{Be} SABOT



16:45

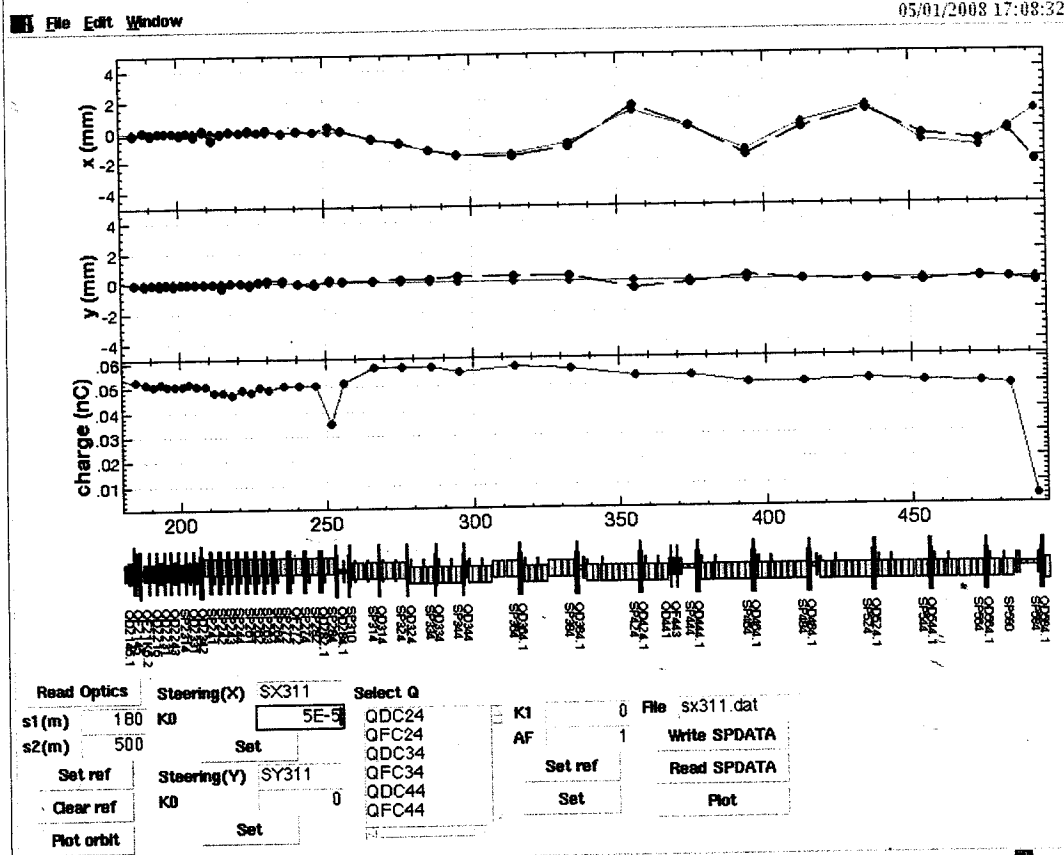
Single kick $\bar{\tau}$ - τ 取り

★ FB 止まりの事を確認可なり！

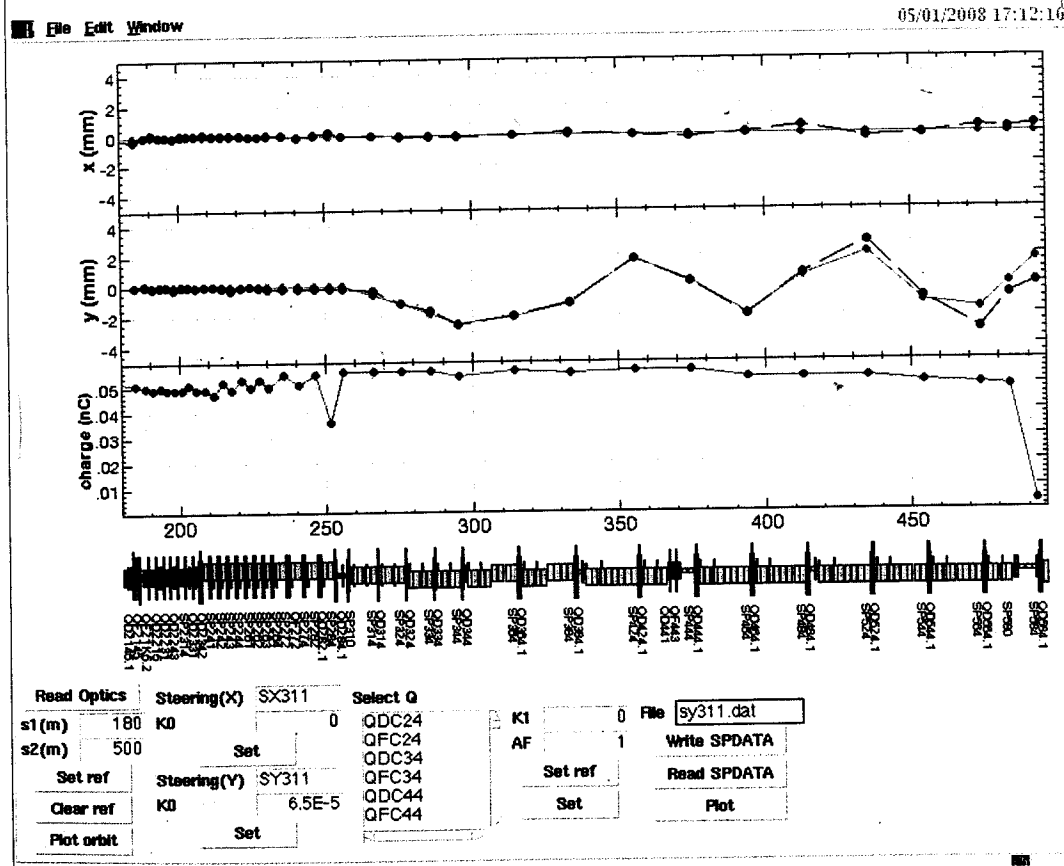


SEP99-以外(既).既.合.203.

05/01/2008 17:08:32



05/01/2008 17:12:16



99

20080501/

生軌道

'8.48

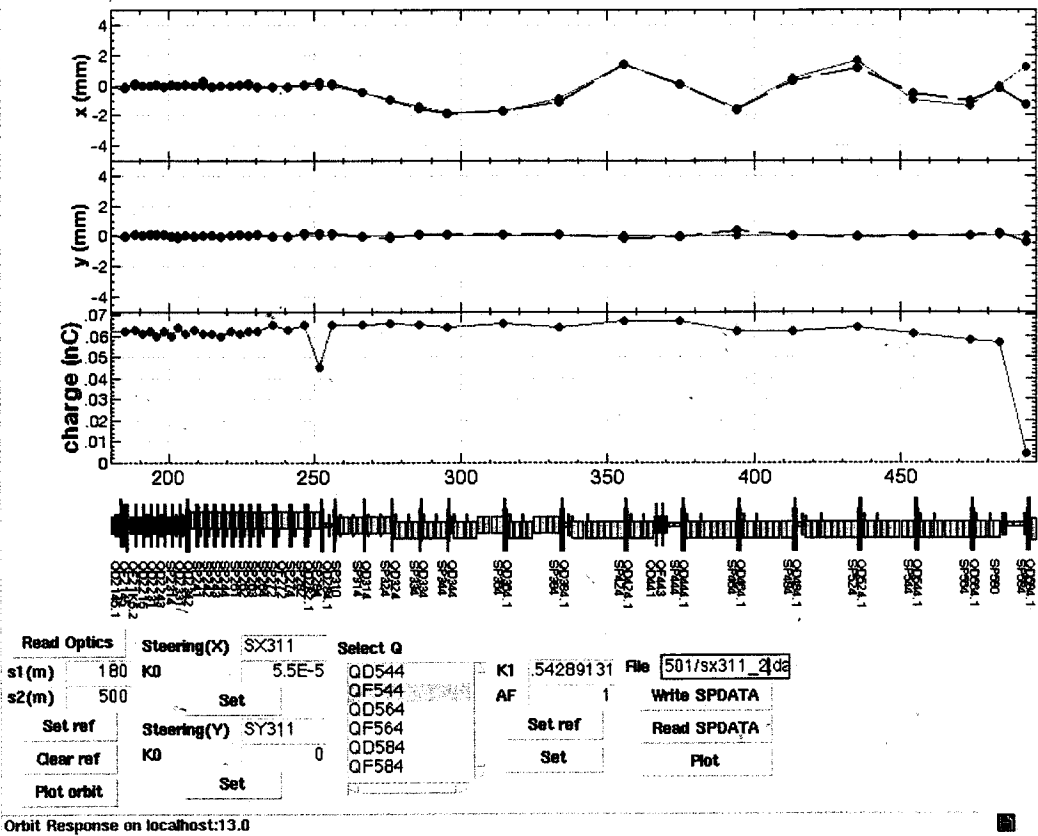
Rawdata.dat

1 = write

File Edit Window

05/01/2008 18:49:54 Help

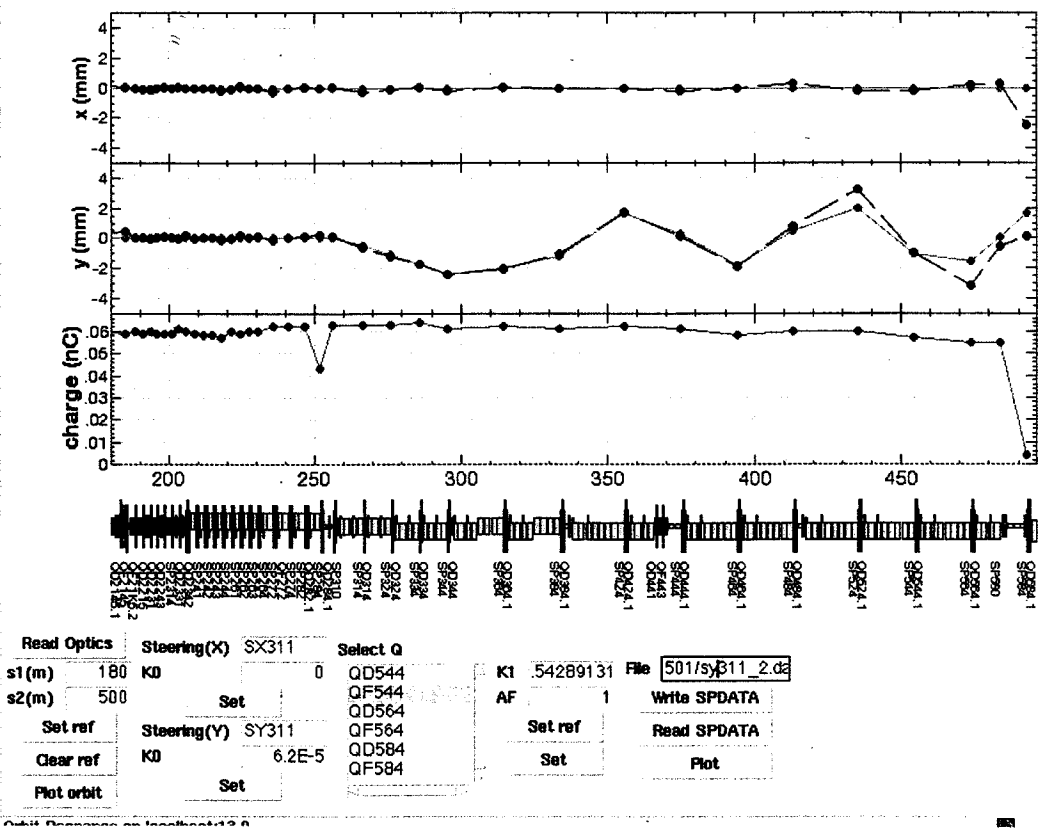
SX_31-1



File Edit Window

05/01/2008 18:52:28 Help

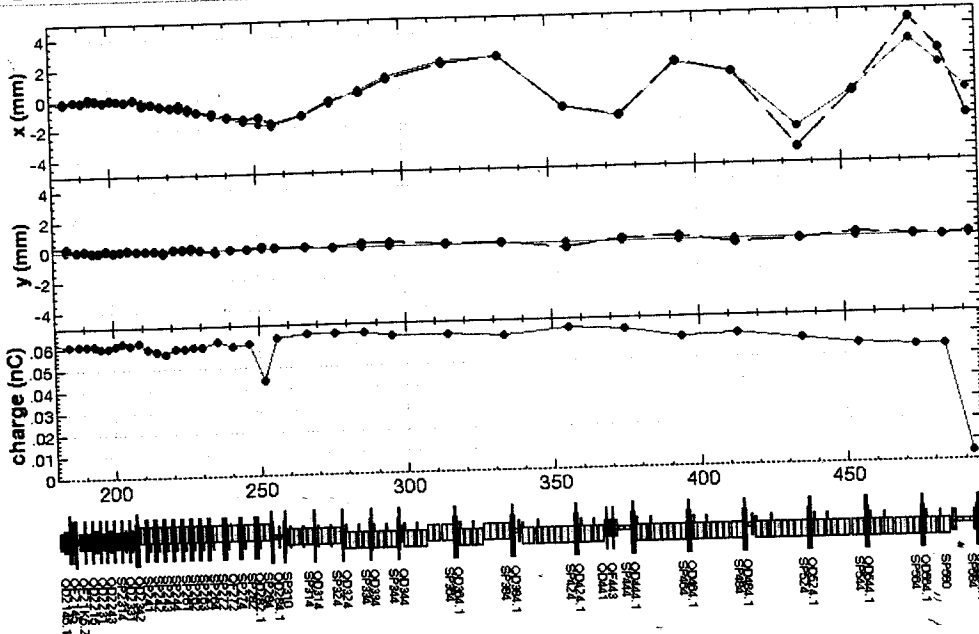
SY_31-1



05/01/2008 18:57:11 Help

File Edit Window

SX24_2



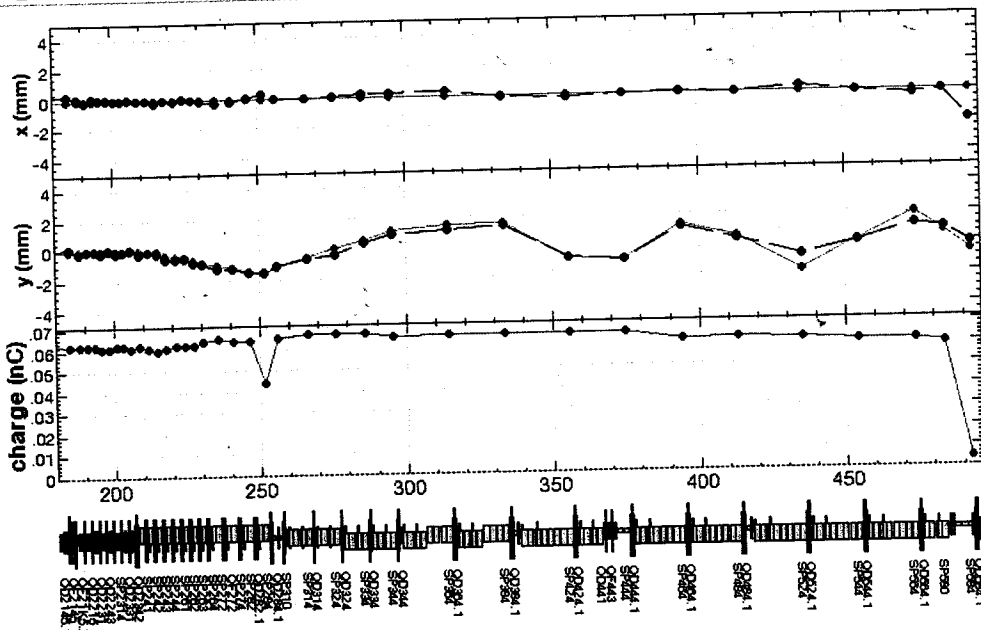
Read Optics	Steering(X) SX242	Select Q	K1 54289131	File 0501/sx242_2.d
s1(m) 180	K0 4.5E-5	QD544	AF 1	Write SPDATA
s2(m) 500	Set	QF544	Set ref	Read SPDATA
Set ref	Steering(Y) SY242	QD564	Set	Plot
Clear ref	K0 0	QF564		
Plot orbit	Set	QD584		
		QF584		

Orbit Response on localhost:13.0

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File Edit Window

SY24_2

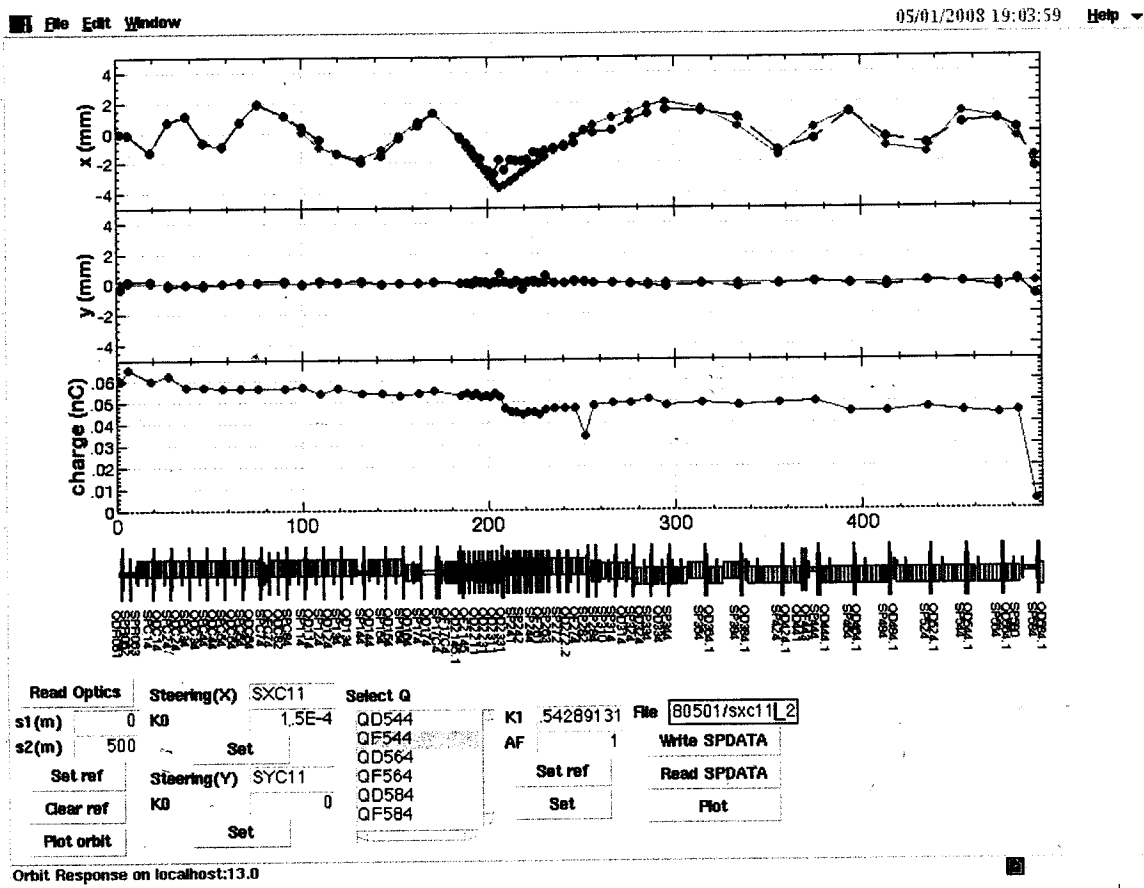


Read Optics	Steering(X) SX242	Select Q	K1 54289131	File 0501/sy242_2.d
s1(m) 180	K0 0	QD544	AF 1	Write SPDATA
s2(m) 500	Set	QF544	Set ref	Read SPDATA
Set ref	Steering(Y) SY242	QD564	Set	Plot
Clear ref	K0 4E-5	QF564		
Plot orbit	Set	QD584		
		QF584		

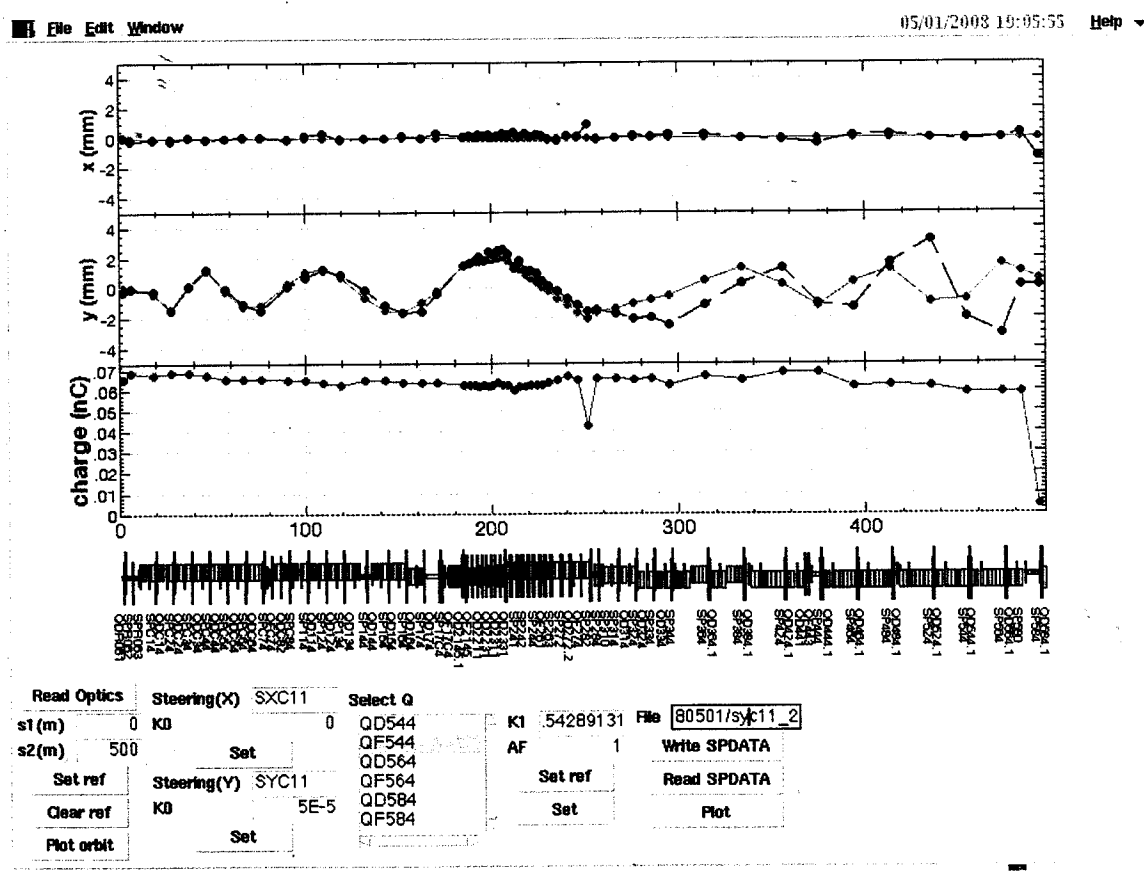
Orbit Response on localhost:13.0

101

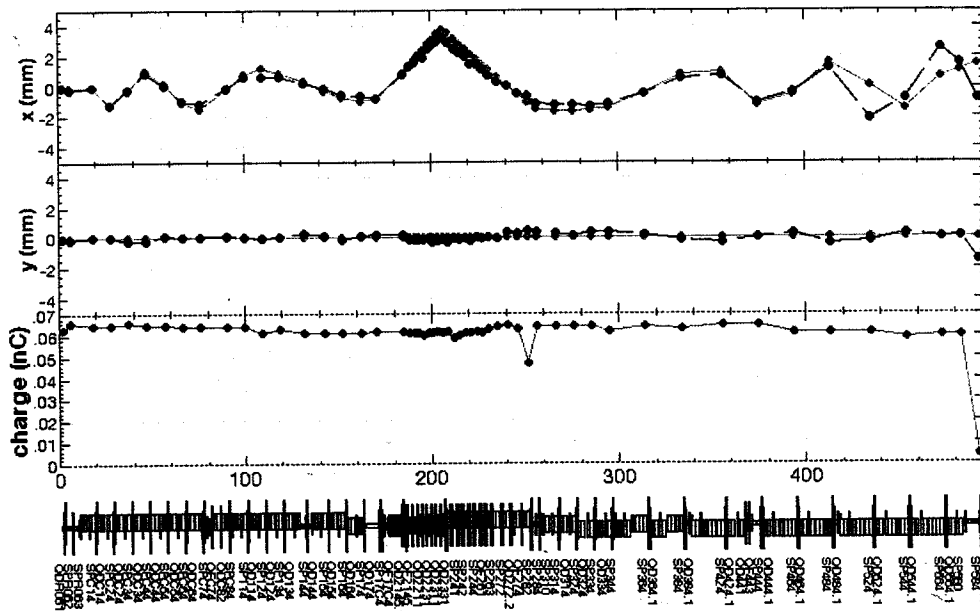
SX-cl-1



SY-cl-1



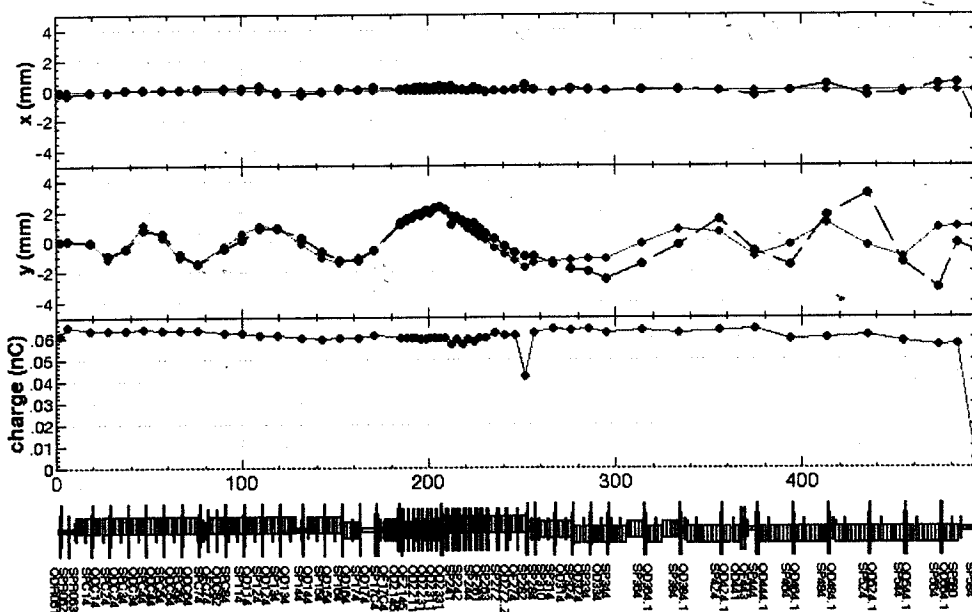
SX_C2_1



Read Optics	Steering(X) SXC21	Select Q	K1 .54289131	File [B0501/sxc21_2]
s1(m) 0	K0 1.5E-4	QD544	AF 1	Write SPDATA
s2(m) 500	Set	QF544	Set ref	Read SPDATA
Set ref	Steering(Y) SYC11	QD564	Set	Plot
Clear ref	K0 0	QF564		
Plot orbit	Set	QD584		
		QF584		

Orbit Response on localhost:13.0

SY_C2_1



Read Optics	Steering(X) SXC21	Select Q	K1 .54289131	File [B0501/syc21_2]
s1(m) 0	K0 0	QD544	AF 1	Write SPDATA
s2(m) 500	Set	QF544	Set ref	Read SPDATA
Set ref	Steering(Y) SYC21	QD564	Set	Plot
Clear ref	K0 1.5E-4	QF564		
Plot orbit	Set	QD584		
		QF584		

Orbit Response on localhost:13.0