

4-4

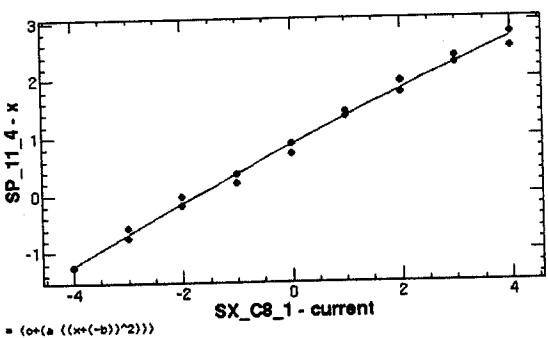
$E_s$ [kV]	VSWR $\alpha$ - $\beta$ -Pf [MW]	PLC Pf [MW]
38	38.7	29.7
39	41.2	31.7
40	43.7	33.6
41	46.3	35.8
42	48.7	37.8
43	51.3	39.7
44.8	56.2	43.8

2007.3.22(木)  
22:21

3 BPM用データ測定 (MHz)  
Orbit Feedback, Energy Feedback STOP.  
(2Xe<sup>-</sup>, 5Xe<sup>-</sup>, 5Ye<sup>-</sup>, RO e<sup>-</sup>/e<sup>+</sup>, KEKB e<sup>-</sup>, KEKB e<sup>-</sup>BT)

e<sup>-</sup> Mode

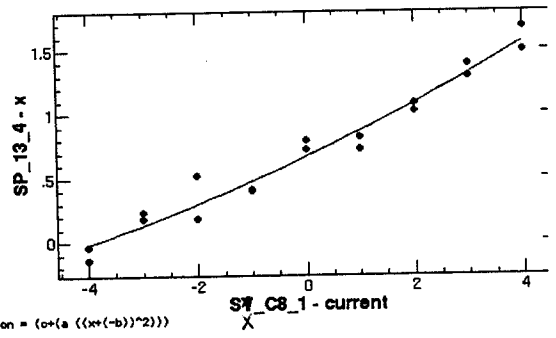
File Edit Window 03/22/2007 22:12:55 Help  
ChiSquare = .15077 Goodness = .45142  
a = -.00781 +/- .00404 b = 31.4734 +/- 16.2799 c = 8.59975 +/- 3.98495



Function = (a\*((x-b)^2))

Hard Copy

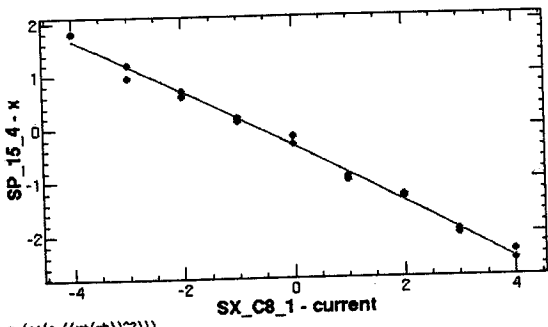
File Edit Window 03/22/2007 22:18:14  
ChiSquare = .17048 Goodness = .45142  
a = .00671 +/- .00430 b = -14.681 +/- 9.43250 c = -.78051 +/- .908



Function = (a\*((x-b)^2))

Hard Copy

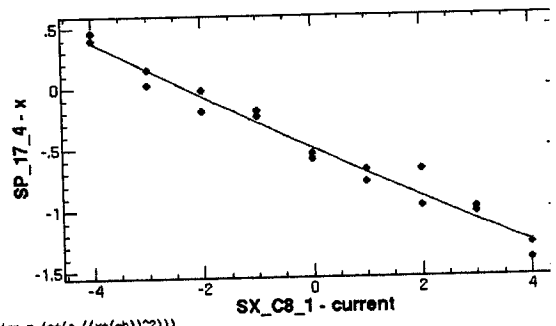
File Edit Window 03/22/2007 22:11:47 Help  
ChiSquare = .19179 Goodness = .45142  
a = -.00511 +/- .00456 b = -50.715 +/- 45.0263 c = 12.8165 +/- 11.6451



Function = (a\*((x-b)^2))

Hard Copy

File Edit Window 03/22/2007 22:11:10  
ChiSquare = .15888 Goodness = .45142  
a = .00281 +/- .00415 b = 36.8690 +/- 54.2856 c = -4.3140 +/- 5.603



Function = (a\*((x-b)^2))

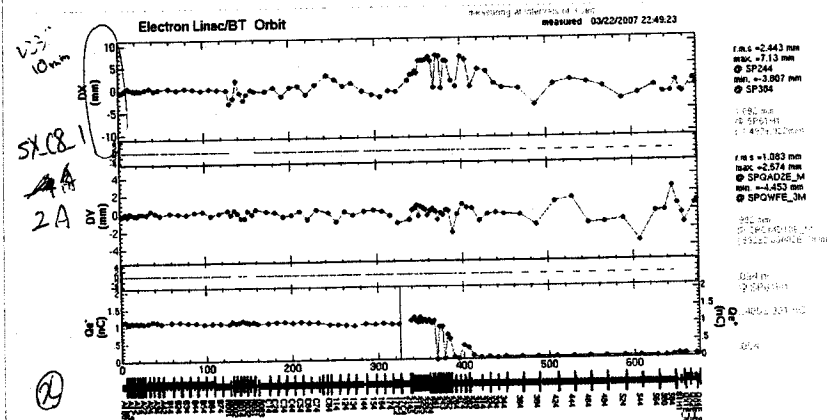
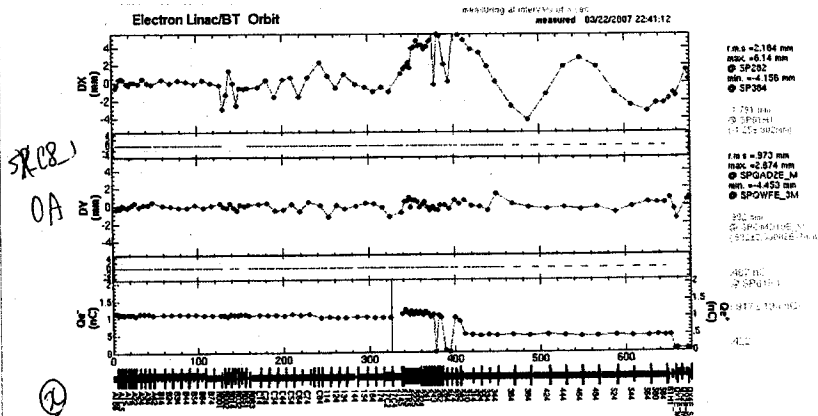
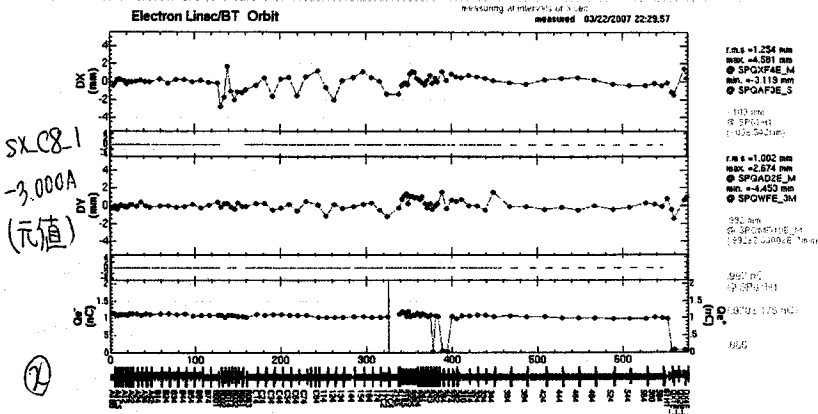
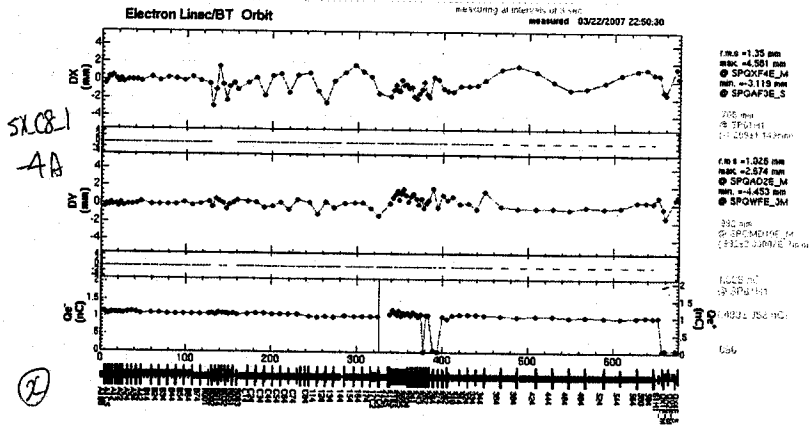
Hard Copy

(SX-C8-1元値)  
-3.000 A

SX-C8-1	start
-4.000 A	22:25:00
-3.000 A	22:29:00
-2.000 A	22:33:00
-1.000 A	22:37:00
0 A	22:41:00
1.000 A	22:45:00
2.000 A	22:49:00

STOP	(orb: 区)
22:29:00	(orb: 区)
22:33:00	
22:37:00	
22:41:00	
22:45:00	(orb: 区)
22:49:00	(2セクタ-途中からのビーム)
22:50:00	ビームロス大の為 中継断

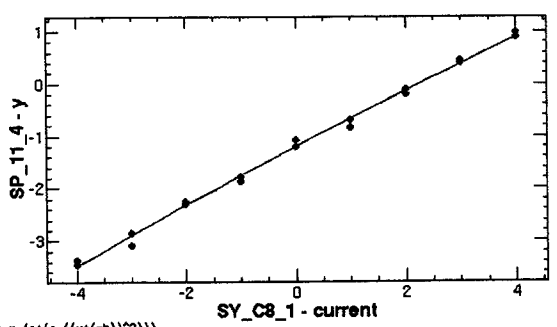
(Orbit区)



e- Mode Y 測定

File Edit Window 03/22/2007 22:14:07 Help

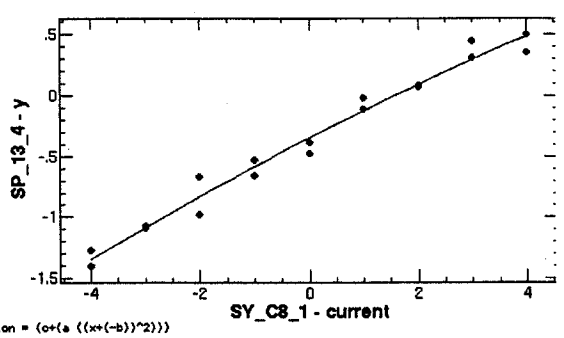
ChiSquare = .12479 Goodness = .45142  
 a = -.00536 +/- .00367 b = 50.8148 +/- 34.6657 c = 12.6466 +/- 9.43277



Function = (a\*((x-(b))^2))

File Edit Window 03/22/2007 22:15:16

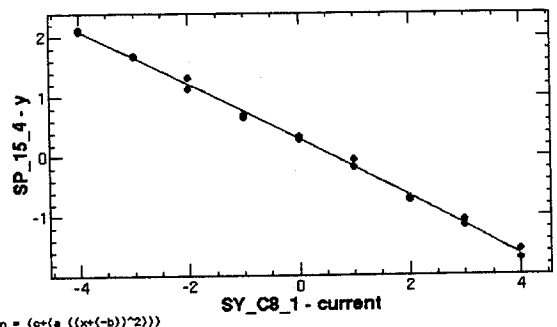
ChiSquare = .13545 Goodness = .45142  
 a = -.00497 +/- .00383 b = 23.0748 +/- 17.8139 c = 2.29362 +/- 2.0231



Function = (a\*((x-(b))^2))

Hard Copy File Edit Window 03/22/2007 22:16:50 Help

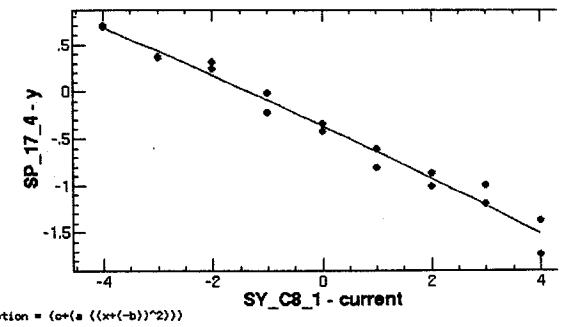
ChiSquare = .07589 Goodness = .45142  
 a = -.00504 +/- .00287 b = -46.397 +/- 26.2459 c = 11.1498 +/- 6.12157



Function = (a\*((x-(b))^2))

Main Application Area File Edit Window 03/22/2007 22:17:4

ChiSquare = .21719 Goodness = .45142  
 a = -.00336 +/- .00485 b = -40.735 +/- 58.6771 c = 5.21111 +/- 7.99



Function = (a\*((x-(b))^2))

Hard Copy

Hard Copy

(SY-C8-1元値)  
0.00 1A

SY-C8-1	start	STOP	
-4.000 A	22:53:00	22:57:00	(orbit 12 巻)
-3.000 A	22:57:00	23:01:00	
-2.000 A	23:01:00	23:05:00	
-1.000 A	23:05:00	23:09:00	
0 A	23:09:00	23:13:00	(orbit 12 巻)
1.000 A	23:13:00	23:17:00	
2.000 A	23:17:00	23:21:00	
3.000 A	23:21:00	23:25:00	
4.000 A	23:25:00	23:29:00	(orbit 12 巻)

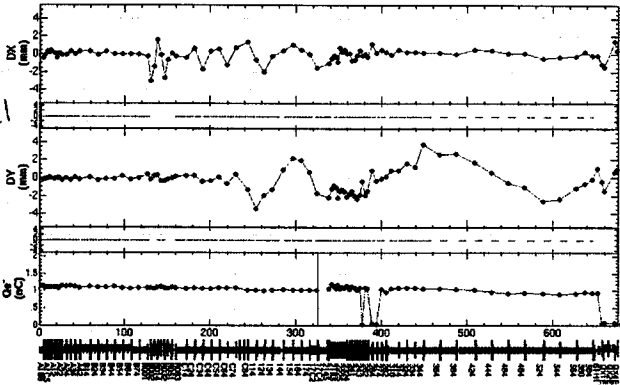
end

Feedback start

Electron Linc/BT Orbit

measuring at intervals of 5 sec  
measured 03/22/2007 22:53:00

SY-C8-1  
4A



rms = 1.244 mm  
max = 4.581 mm  
SPQXFE\_M  
min = -3.119 mm  
SPOAF3\_S

rms = 1.355 mm  
max = 3.77 mm  
SP34  
min = -4.453 mm  
SPOWFE\_3M

962 mA  
SPQXFE\_M  
1042.28 mA

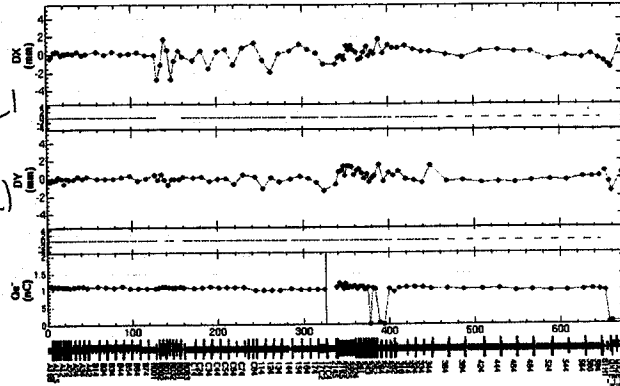
962 mA  
SPOWFE\_3M

884

Electron Linc/BT Orbit

measuring at intervals of 5 sec  
measured 03/22/2007 23:10:51

SY-C8-1  
0A  
(元直)



rms = 1.254 mm  
max = 4.581 mm  
SPQXFE\_M  
min = -3.119 mm  
SPOAF3\_S

rms = 1.013 mm  
max = 2.874 mm  
SPOAD2E\_M  
min = -4.453 mm  
SPOWFE\_3M

997 mA  
SPQXFE\_M  
1150 mA

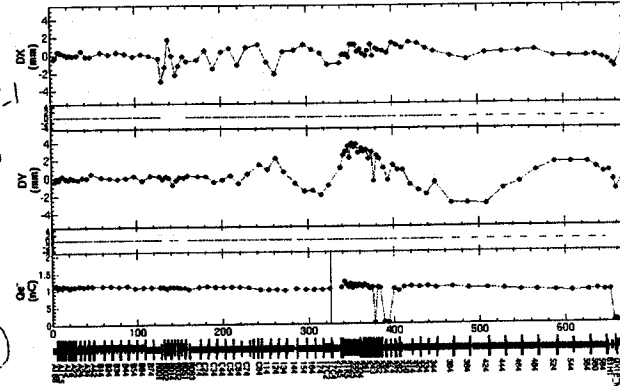
997 mA  
SPOWFE\_3M

877 mA

Electron Linc/BT Orbit

measuring at intervals of 5 sec  
measured 03/22/2007 23:25:11

SY-C8-1  
4A



rms = 1.200 mm  
max = 4.581 mm  
SPQXFE\_M  
min = -3.119 mm  
SPOAF3\_S

rms = 1.525 mm  
max = 3.823 mm  
SP2314  
min = -4.453 mm  
SPOWFE\_3M

959 mA  
SPQXFE\_M  
1080 mA

959 mA  
SPOWFE\_3M

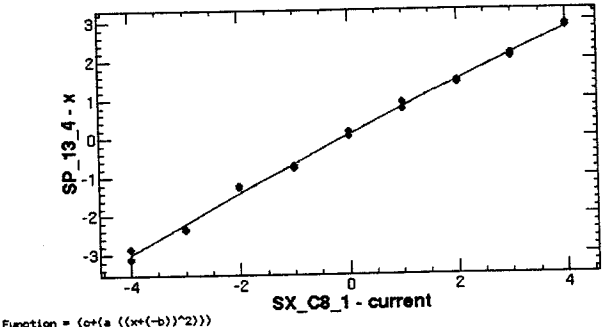
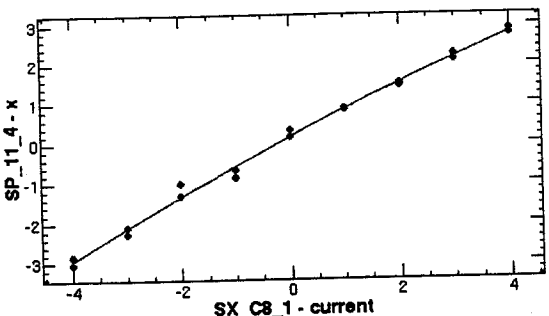
874 mA

23:38

e<sup>+</sup> Mode 計測 (各FB STOP (R0, 1Xe<sup>+</sup>, 1Ye<sup>+</sup>, 5Xe<sup>+</sup>, 5Ye<sup>+</sup>, 6Xe<sup>+</sup>, 6Ye<sup>+</sup>, KEKBet BT))  
X方向

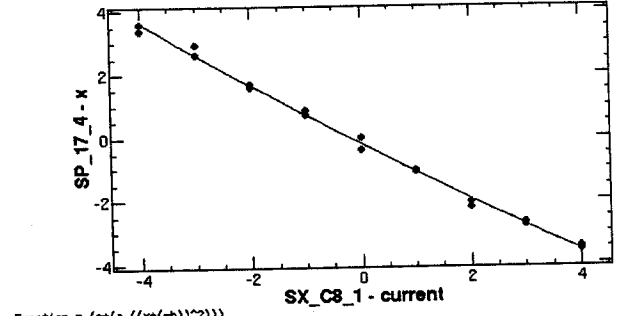
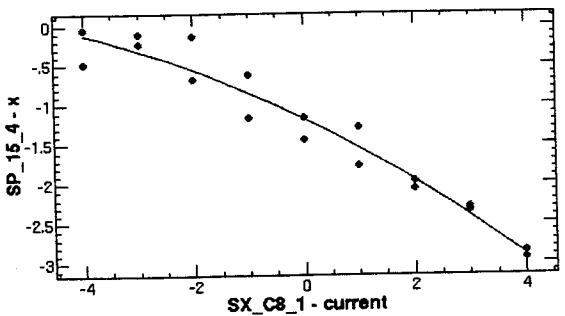
03/22/2007 23:36:28 Help  
ChiSquare = .26314 Goodness = .45142  
a = -.01508 +/- .00554 b = 23.6037 +/- 8.67702 c = 8.55657 +/- 3.06221

03/22/2007 23:36:05 Help  
ChiSquare = .21389 Goodness = .45142  
a = -.01041 +/- .00481 b = 34.9279 +/- 16.1518 c = 12.7667 +/- 5.84990



03/22/2007 23:39:16 Help  
ChiSquare = .76212 Goodness = .45142  
a = -.02128 +/- .00908 b = -8.1746 +/- 3.52215 c = .25149 +/- .57412

03/22/2007 23:41:35 Help  
ChiSquare = .34483 Goodness = .45142  
a = .01303 +/- .00611 b = 34.6830 +/- 16.2670 c = -15.874 +/- 7.32370



2007.3.23

(SX\_C8\_1 元値  
0.001 A)

- SX-C8-1
- 4.000 A
- 3.000 A
- 2.000 A
- 1.000 A
- 0 A
- 1.000 A
- 2.000 A
- 3.000 A
- 4.000 A

- Start
- 00:00:00
- 00:04:00
- 00:08:00
- 00:12:00
- 00:16:00
- 00:20:00
- 00:24:00
- 00:28:00
- 00:32:00

- Stop
- 00:04:00
- 00:08:00
- 00:12:00
- 00:16:00
- 00:20:00
- 00:24:00
- 00:28:00
- 00:32:00
- 00:44:00

mon 1B 500 → 7V  
変更

(orbit は裏)

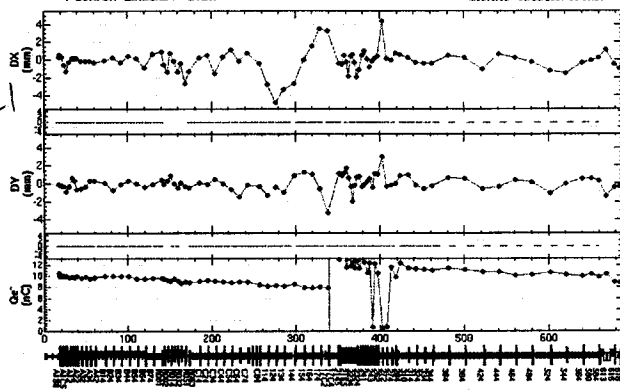
(orbit は裏)

(orbit は裏)

Positron Linac/BT Orbit

measured 03/23/2007 00:06:23

SX08-1  
-4A



rms = 1.280 mm  
 max = 4.260 mm  
 @ SP272  
 min = -4.783 mm  
 @ SP124

1.741 mm  
 @ SPQMD11P\_K  
 (-1.741 mm, 0.000 mm)

rms = 1.252 mm  
 max = 2.299 mm  
 @ SP272  
 min = -4.82 mm  
 @ SPOXFAP\_A

966 mm  
 @ SPQ...  
 (1074 mm, 0.000 mm)

53 mrad  
 @ SPQMD11P\_K  
 (0.000 mrad, 0.000 mrad)

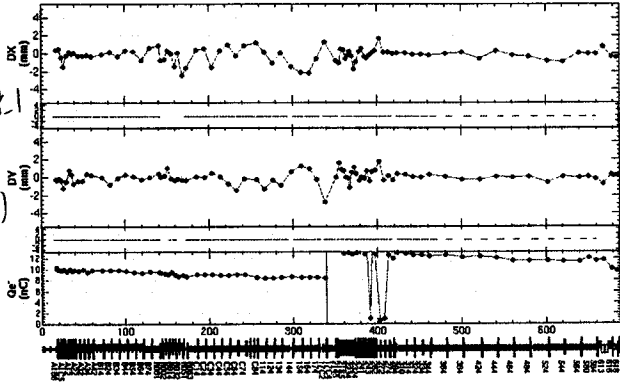
494

(2)

Positron Linac/BT Orbit

measured 03/23/2007 00:18:23

SX08-1  
0A  
(元値)



rms = 1.004 mm  
 max = 2.423 mm  
 @ SPOXFAP\_A  
 min = -3.583 mm  
 @ SPQMD11P\_K

1.741 mm  
 @ SPQMD11P\_K  
 (-1.741 mm, 0.000 mm)

rms = 1.194 mm  
 max = 2.734 mm  
 @ SPQMD11P\_K  
 min = -4.82 mm  
 @ SPOXFAP\_A

944 mm  
 @ SPQ...  
 (1044 mm, 0.000 mm)

53 mrad  
 @ SPQMD11P\_K  
 (0.000 mrad, 0.000 mrad)

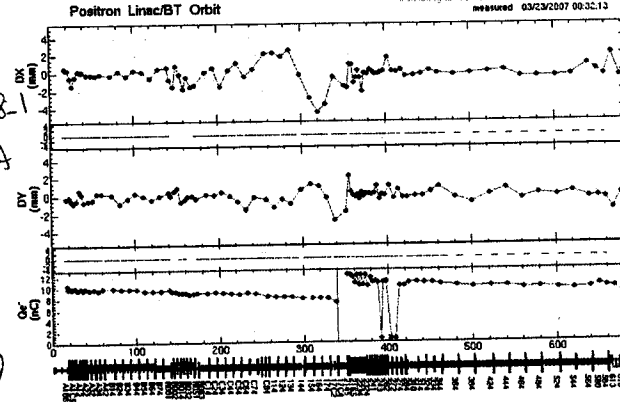
494

(2)

DE BPM Measurement Correction Steering Orbit Monitor

measured 03/23/2007 00:32:13

SX08-1  
4A



rms = 1.177 mm  
 max = 2.813 mm  
 @ SP124  
 min = -4.472 mm  
 @ SP124

1.741 mm  
 @ SPQMD11P\_K  
 (-1.741 mm, 0.000 mm)

rms = 1.203 mm  
 max = 2.704 mm  
 @ SPQMD11P\_K  
 min = -4.82 mm  
 @ SPOXFAP\_A

903 mm  
 @ SPQ...  
 (1003 mm, 0.000 mm)

53 mrad  
 @ SPQMD11P\_K  
 (0.000 mrad, 0.000 mrad)

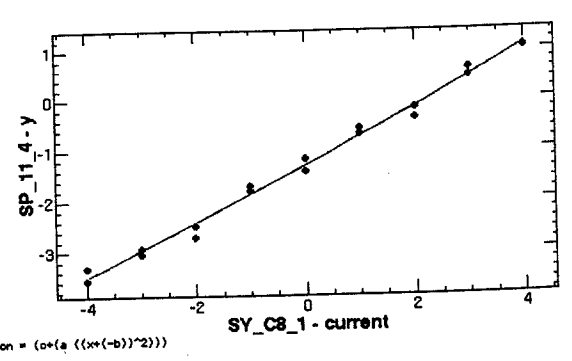
494

(2)

e<sup>+</sup> Mode Y 測定

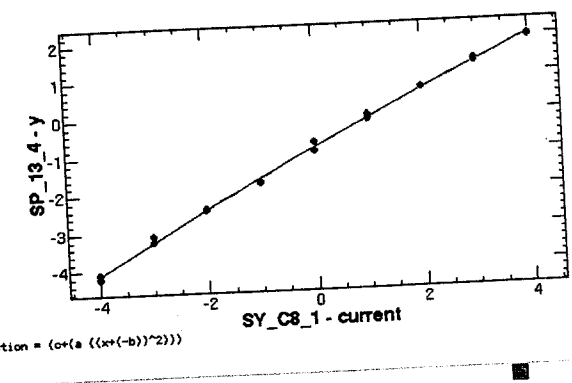
03/22/2007 23:44:15 Help

ChiSquare = .29199 Goodness = .45142  
 a = -.00601 +/- .00562 b = -47.450 +/- 44.2430 c = -14.029 +/- 12.5851



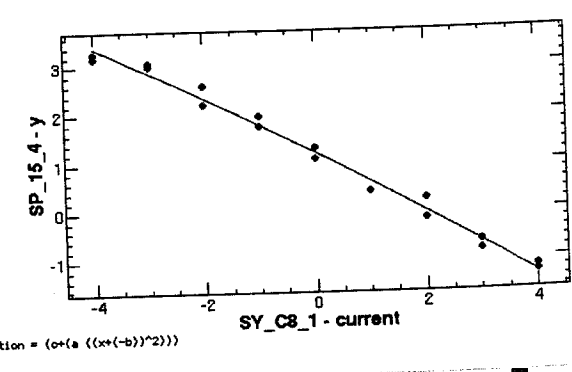
03/22/2007 23:45:32

ChiSquare = .09571 Goodness = .45142  
 a = -.01306 +/- .00322 b = 29.1778 +/- 7.19398 c = 10.2639 +/- 2.72687



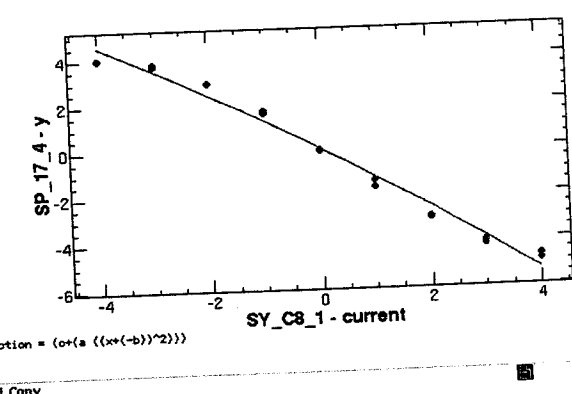
Hard Copy 03/22/2007 23:47:59 Help

ChiSquare = .47678 Goodness = .45142  
 a = -.01136 +/- .00718 b = -25.964 +/- 16.4393 c = 8.86634 +/- 4.81340



Hard Copy 03/22/2007 23:49:09

ChiSquare = 2.92951 Goodness = .45142  
 a = -.02884 +/- .01781 b = -21.485 +/- 13.2817 c = 13.3777 +/- 8.14765

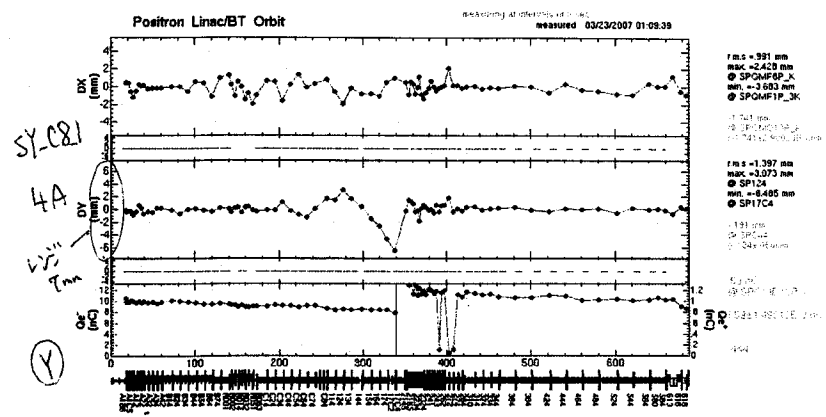
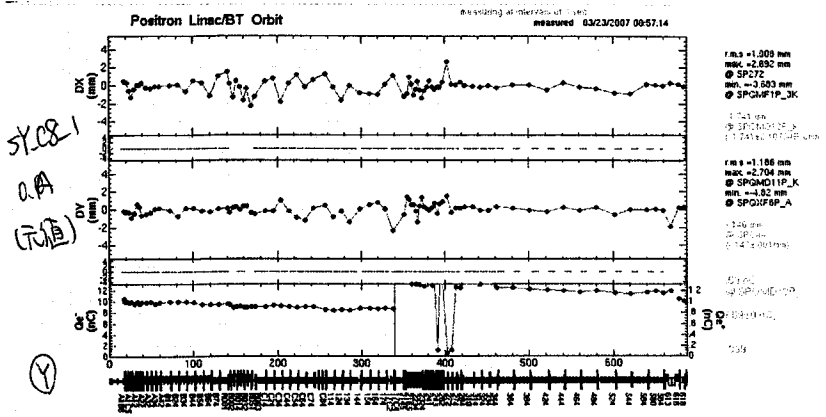
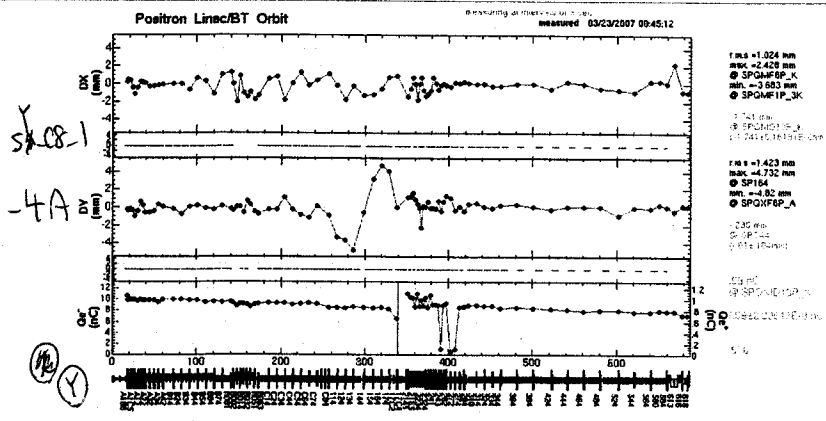


Main Application Area

Hard Copy

SY_C8_1	SY_C8_1	start	STOP	
0.001 A	-4.000 A	00:45:00	00:48:00	(orbit 1 裏)
(元) 画)	-3.000 A	00:48:00	00:51:00	
	-2.000 A	00:51:00	00:54:00	
	-1.000 A	00:54:00	<del>00:57:00</del> 00:57:00	
	0 A	00:57:00	01:00:00	(orbit 1 表)
	1.000 A	01:00:00	01:03:00	
	2.000 A	01:03:00	01:06:00	
	3.000 A	01:06:00	01:09:00	
	4.000 A	01:09:00	01:12:00	(orbit 1 表)
				end
				FB start





2007. 3. 10.

Energy  $\sqrt{E^2 - c^2 \beta^2} V$  (紙谷)

PM

4:15

ECS magnet BM-61-1 -366.30 → 0  
 " 2 +375.458 → 0

e<sup>+</sup>E-4E 曲げ器極性にお。 BM-61-1-pul → Ekn Pos

sec -366.30 A ← Pulお 8

4:21

Energy Feedback E 止。 Energy knob z SC-61-h にC3おにお。

Sec	-450. A	← e <sup>+</sup> ← 簡易初期E.	9.05
sec	-180. A		4.041 GeV
	-170 A		3.823
	-160 A		3.599 GeV
	-159 A		3.578
	-158 A		3.556
	-157.7 A		3.550
	-155.7 A		
	-155.5 A		3.502 GeV
	-30.0 A		0.665 GeV

3.5 GeV 確認

KL9 5-3, 5-4 } 位相を 180° おす。 -125 A 2.8 GeV  
 4sector 17台 } 計9台 × 160 = 1440. 3500 - 144 × 2 = 620

4:41

位相を 180° おす。 • KL 5-3. • KL 5-4. • SB-4

4:51

通常の 加速位相 ← abc

4:54

減速位相 におた → 大西 Optics と Sec 1, 2.

SX-43-1 0.502  
 SY-43-1 -2.099

5:18

QM. STC の調整

17:34

δE/E optimize φSB-4, E-knob

BH-61-1 24.420 A 0.5243 GeV