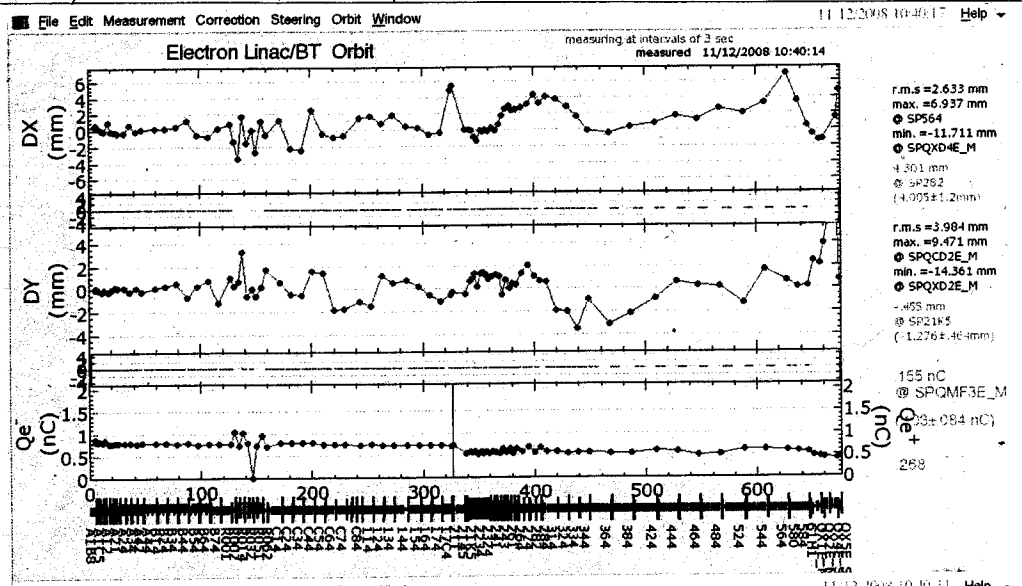
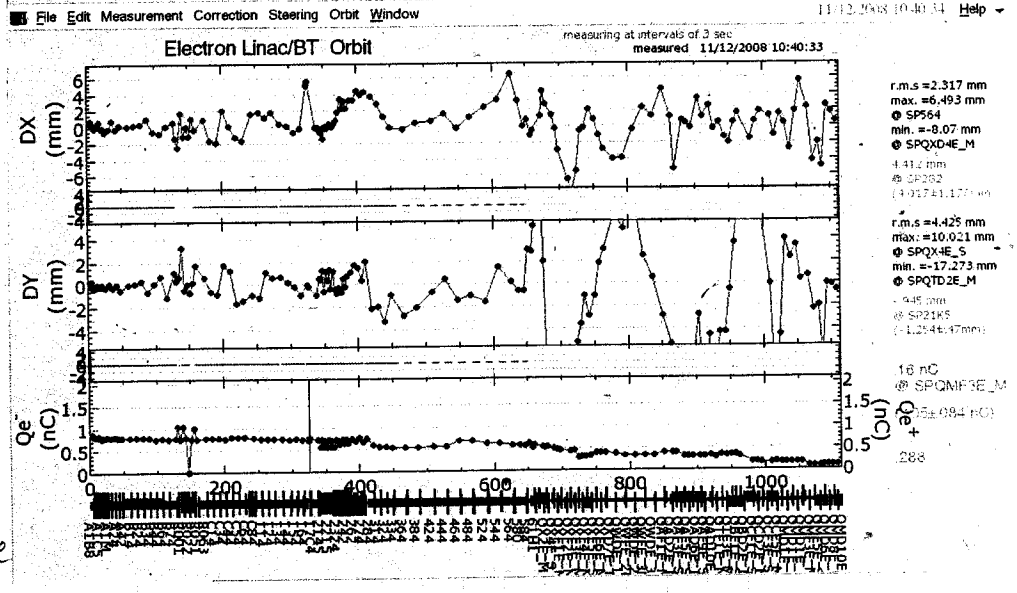
141

'08/11/12 11/11 17:39 の parameter で set

e⁻

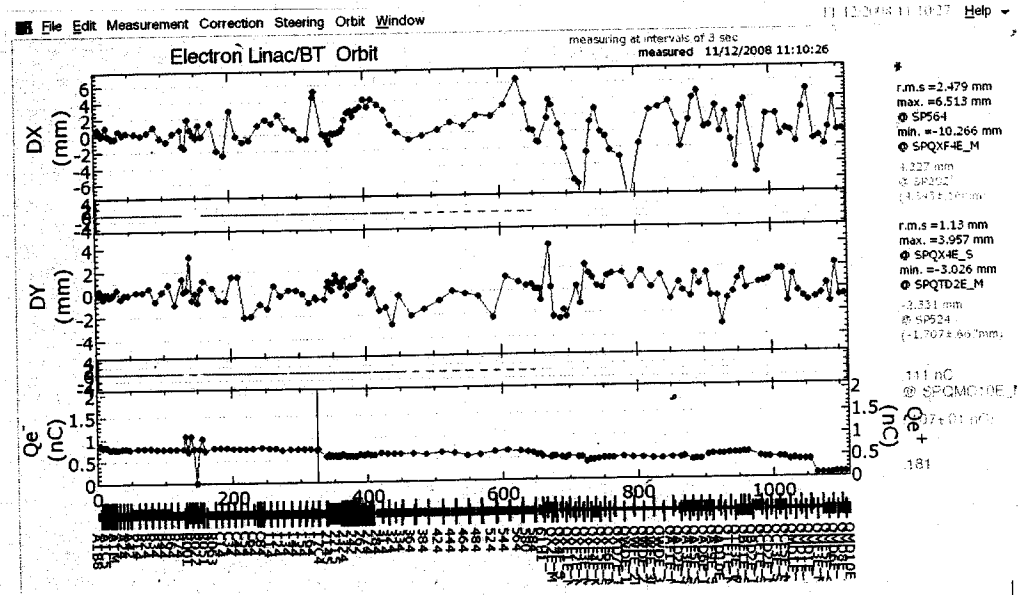
BY_48_4
− 0.399
→ −0.350





21:07" に save

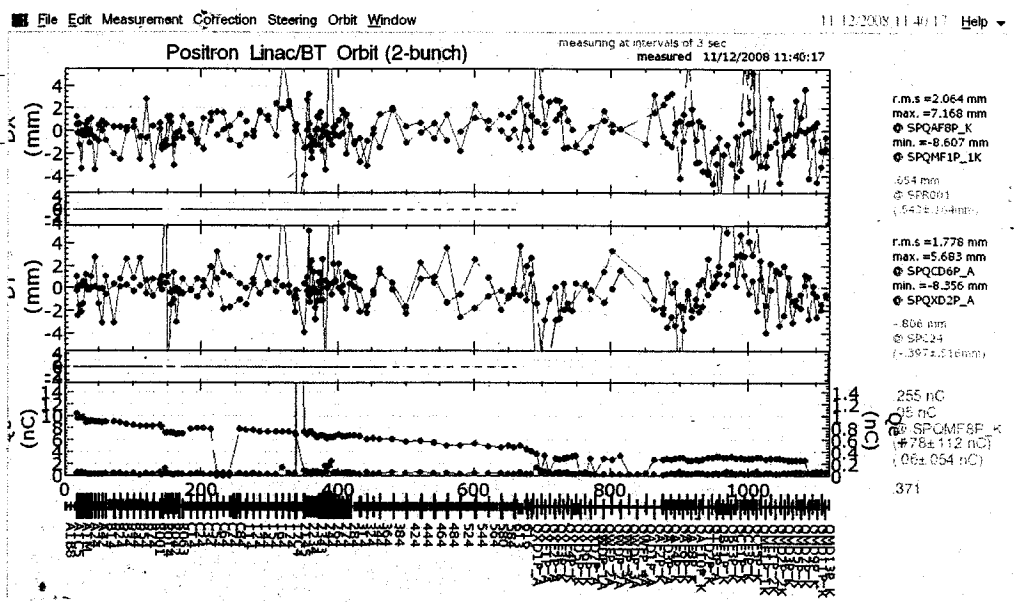
BY_58_4
+ 2.105
→ −0.5 ではだめ
−0.4



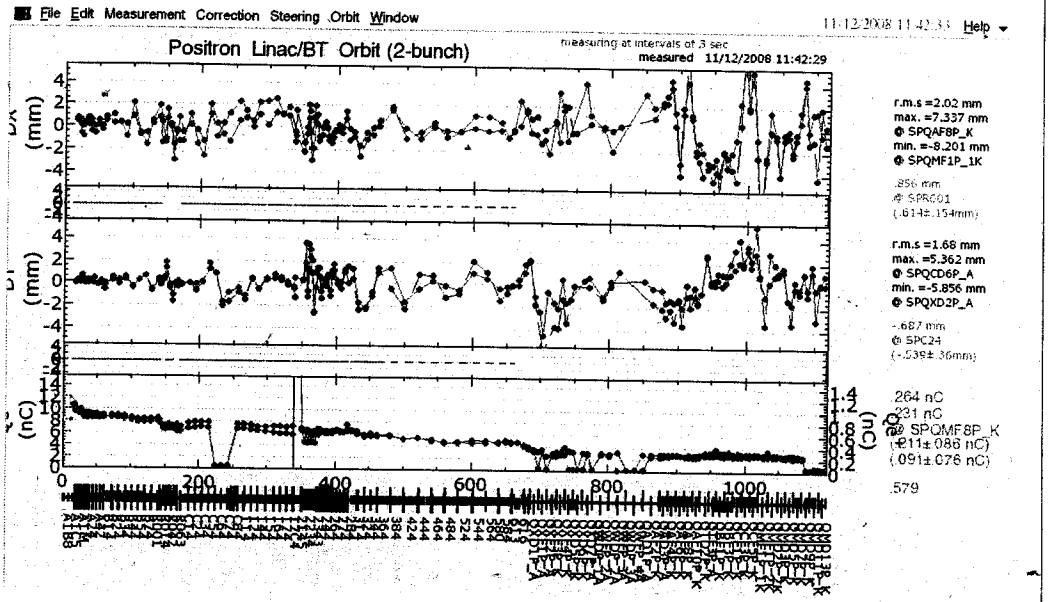
11:42" に
save

et

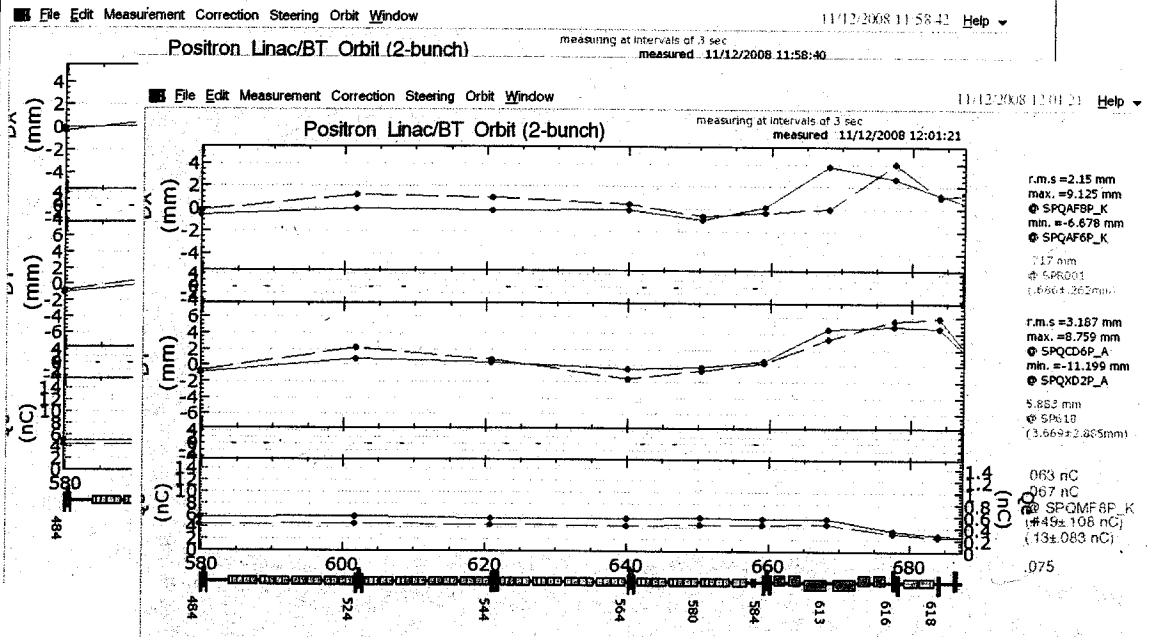
"17:55" に load



BY-48-4
-0.399
→-0.350



BY-58-4
+2.105
→-0.7だと
V. 軌道が
大きく出る
ので
+2.105に
もどす.



143

e+

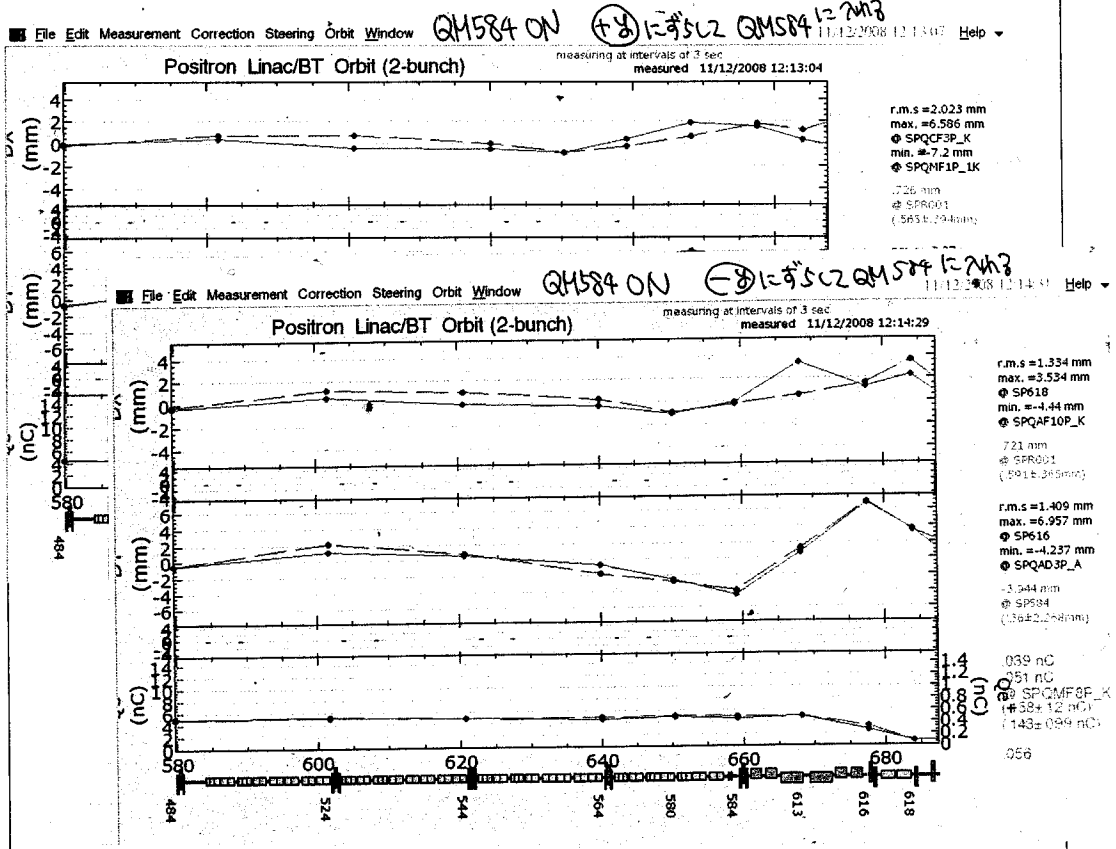
BY61-6
2.306
→ 4.306

BY61-8
2.402
→ 1.0

11:46:58
に save

QM584 ON で ECS に対 position を上下にずらした. (SY 571 を振る)
同じく QM584 OFF で 〃 上下にずらした.
↳ これでも常に 616, 618 では ⊕ 側にオフセットしたところに居る.

BY-584
0[A]
?

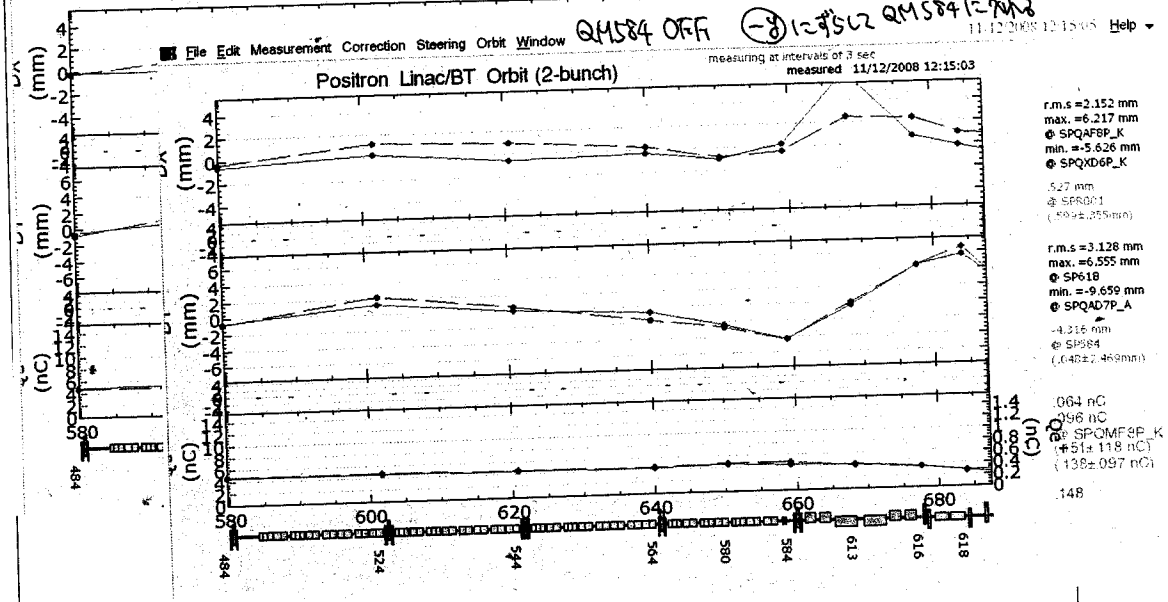


QM584 OFF (+δ)にずらして QM584に戻す

File Edit Measurement Correction Steering Orbit Window Help

measuring at intervals of 3 sec
measured 11/12/2008 12:16:51

Positron Linac/BT Orbit (2-bunch)



QM584 OFF (−δ)にずらして QM584に戻す

File Edit Measurement Correction Steering Orbit Window Help

measuring at intervals of 3 sec
measured 11/12/2008 12:15:03

Positron Linac/BT Orbit (2-bunch)

r.m.s =2.152 mm
max. =6.217 mm
@ SPQAF8P_K
min. =-5.626 mm
@ SPQXD6P_K

.527 mm
@ SP6D01
(.599±.355mm)

r.m.s =3.128 mm
max. =6.555 mm
@ SP618
min. =-9.659 mm
@ SPQAD7P_A

-4.216 mm
@ SP584
(.048±2.469mm)

.064 nC
.096 nC
@ SPQMF8P_K
(+51± 118 nC)
(.138±.097 nC)

.148

145

小川. 金沢. 鈴木 水川.

'08/11/12 QFD 616. 618 の Quad BPM.

15:00

BY484 -0.350 SP616 ビーム Focusing 1.5 ± 0.25 m (Y) 2.0 m (X) ± 0.48

QF616	QD616	QXD4P (Y)	QXD5P	QXF4P (X)	QXF3P
BX484 -0.150 1.355	9.499	5.1	~~4.4~~	2	1.8
SX-55-1 0.7	~~8.499~~ 14.499	4.5	4.2	1.8	2.0 ± 0.5
	19.499	4.0	3.8	0.5	0.6
	24.499	3.5	3.0	0.0	-0.2

Y484 0

~~Y484~~ -1.8

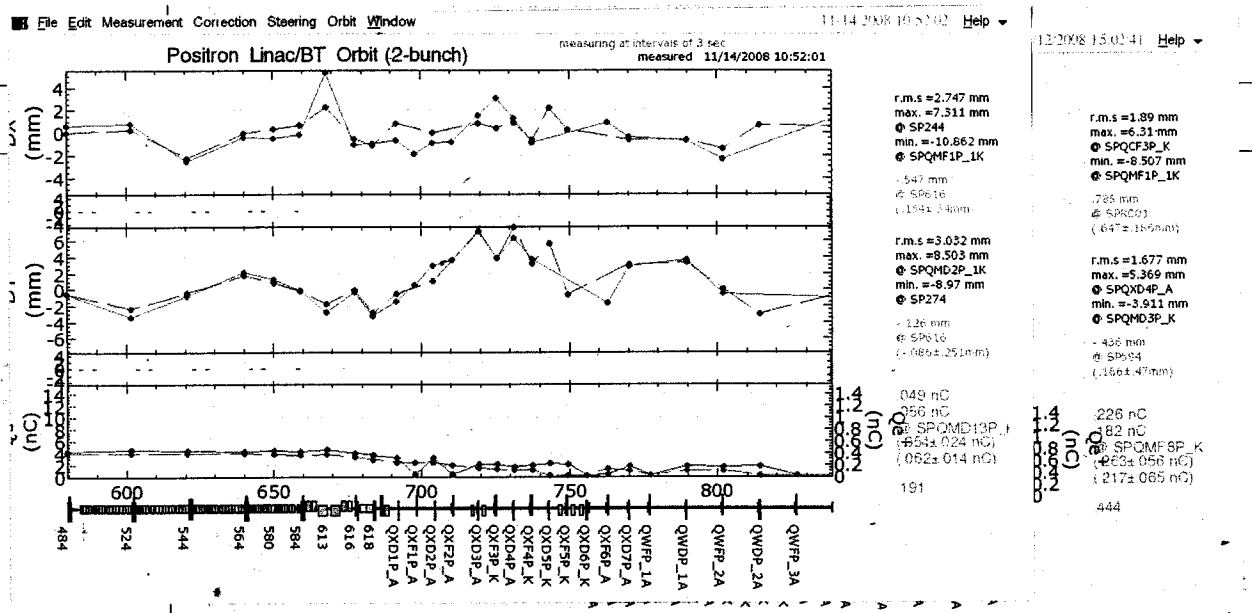
SX-55-1 ~~0.7~~

SP616 Y −0.1 X 0

"15:39" bt data 479 at I save

'08/11/14 → 予想値

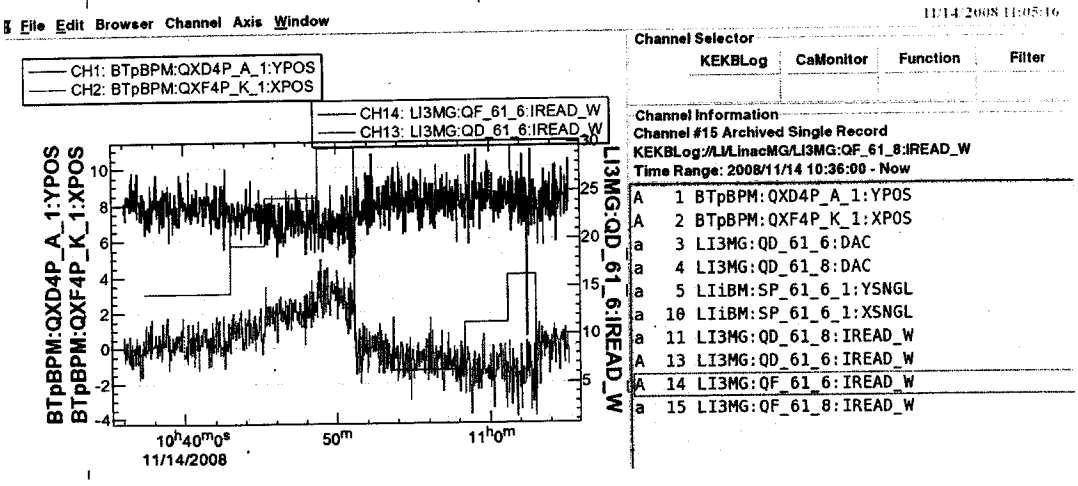
QF616	QD616 ビーム Focusing	QXD4P (Y)	QXD5P	QXF4P (X)	QXF3P
1.355 → 10:36	9.499	8.3	5.2	−0.3	3.6
→ 10:37	14.499	8.0	4.9	0.3	3.5
→ 10:43	19.499	7.5	4.4	0.9	4.1
→ 10:45	24.499	7.0	3.9	1.9	4.8
→ 10:49	29.499	7.0	3.2	~~3.2~~ 2.5	5.3



10:53 SP616 Y 0 X 0

	QD616	QF616 (1st focusing, 2nd defocusing)	QXD4P Y	QXD5P X	QXF4P	QXF3P
~~10:54~~	9.499	1.355	8.0	5.0	0.75	3.9
10:54		6.355	8.3	5.0	6.4	~~3.0~~ 3.9
10:58		11.355	8.3	5.5	−1.5	4.4
11:01		16.355	8.3	5.4	−1.8	4.9
11:03		1.355		4.9		3.5
				±0.5		±0.5

	SP616 Y	X
BY484 −0.350		
BX484		



BY_58_4 は. e^+ で 通常 2A かかっている → 軌道いい beam
e^- では. −0.7A で 軌道はいい.

BY_58_4 で. e^+ mode の時. 2A かけているで. Beam は.

- SC_61_3
- SC_61_6
- SC_61_8

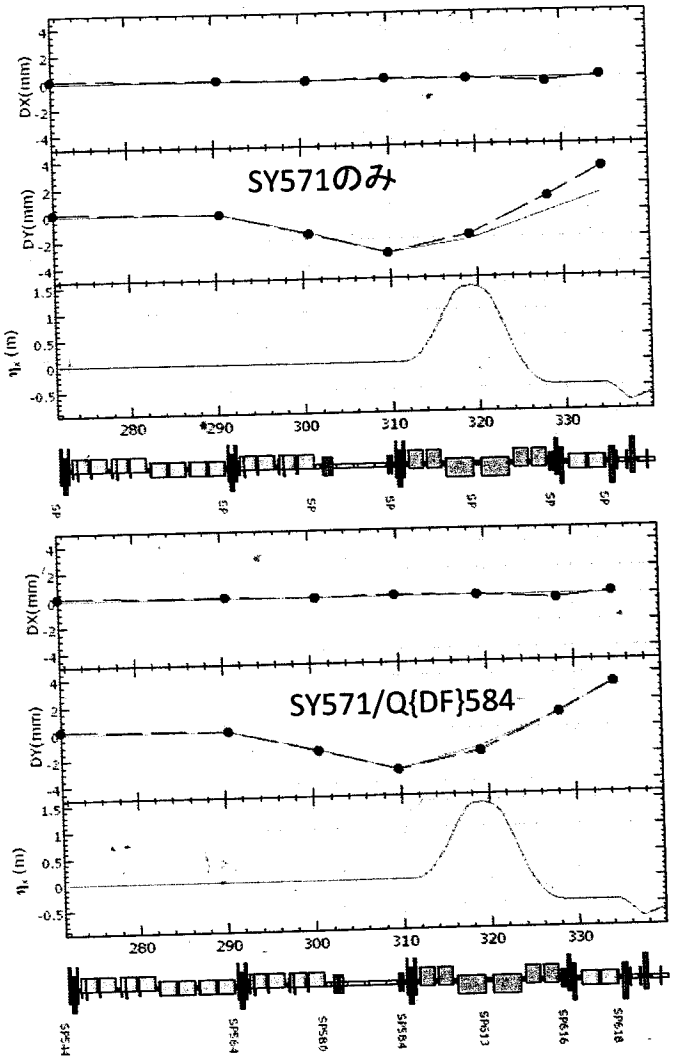
全て. 垂直方向には. まん中にいる
(但し. 水平ビームサイズは巨大.)

2A → 0A にすると.

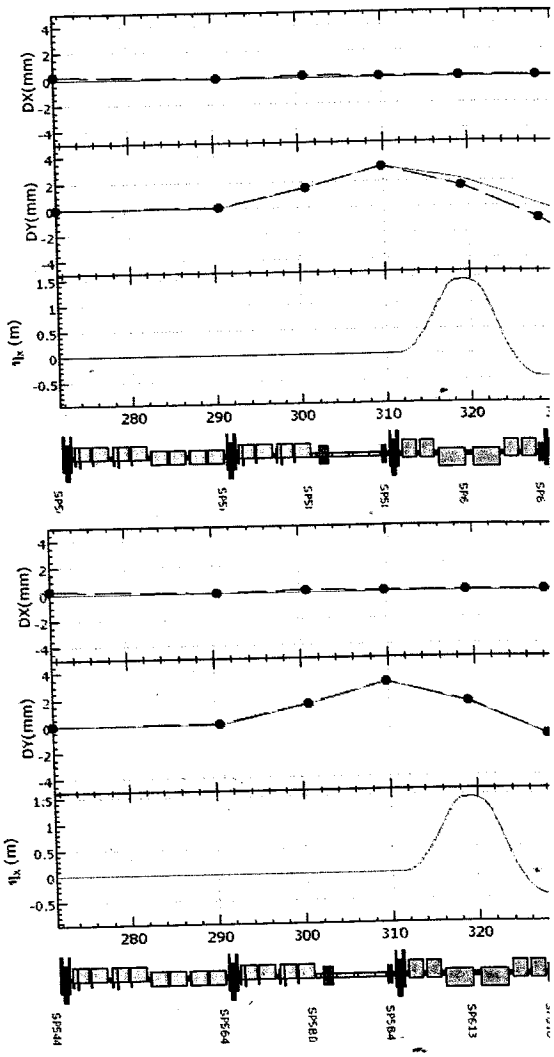
- SC_61_3 ~ −5mm ← カメラが遠?
- SC_61_6 +5mm
- SC_61_8 +6mm

となり. 実際にビームは ~6mm (スクリーン上で) 動く.

SY571のキックによる軌道レスポンス

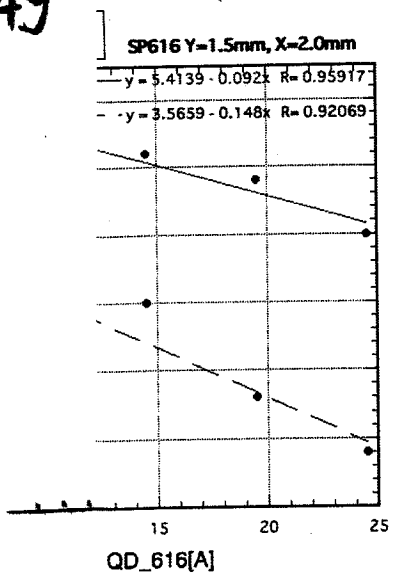


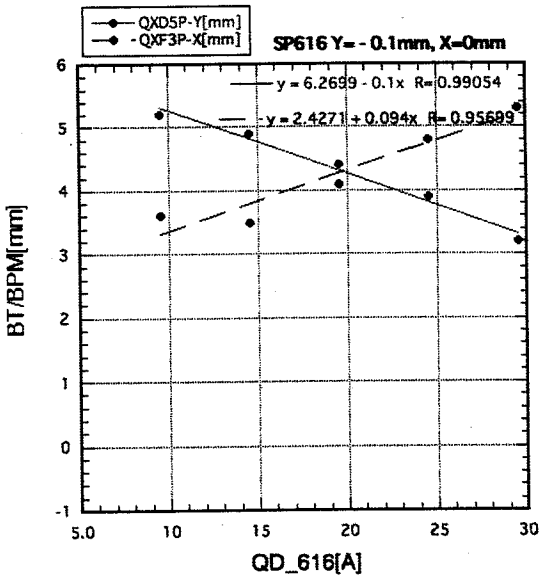
QD584: K1_fit/K1_set = 0.990
QF584: K1_fit/K1_set = 1.014



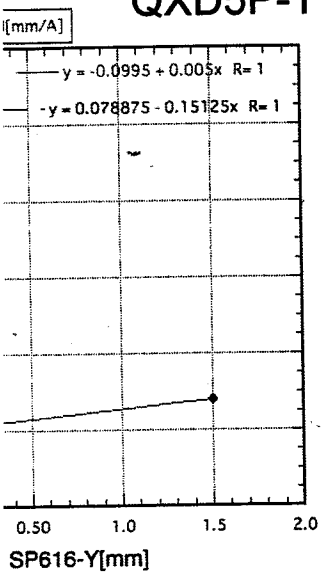
QD584: K1_fit/K1_set = 0.991
QF584: K1_fit/K1_set = 1.012

QDQFのSPが1%設定と持っていると、SP18で軌道のモデルとの差は、~2mmくらいになる
軌道の応答は一応OKだと思われる。



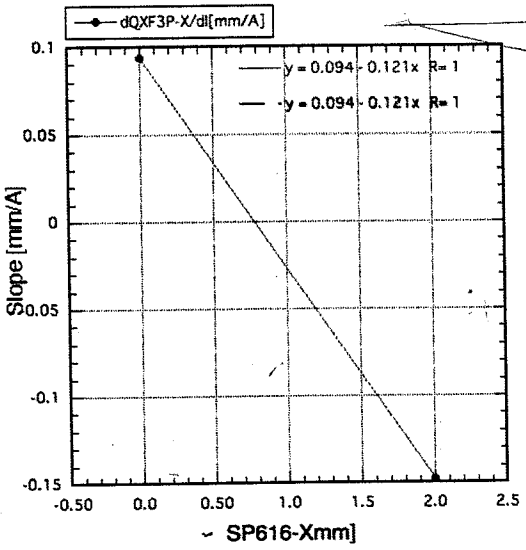


QXD5P-Y

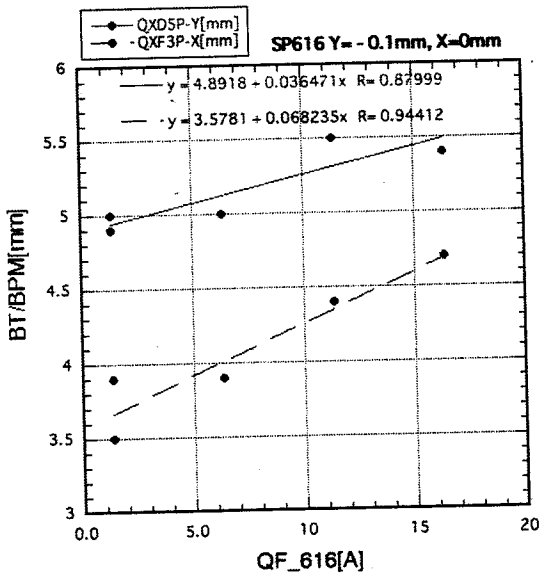


SP616 Yoffset
= 19.9mm

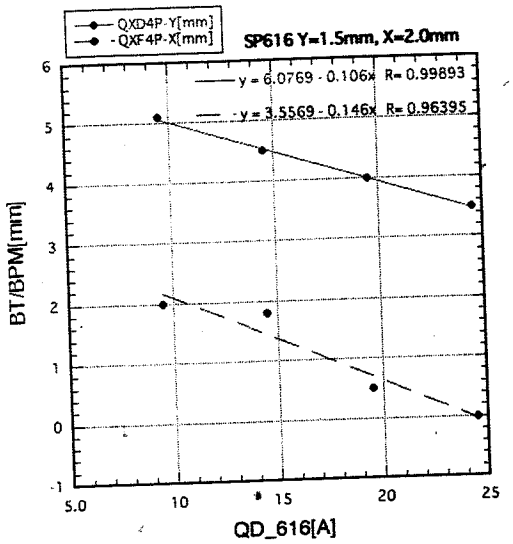
QXF3P-X

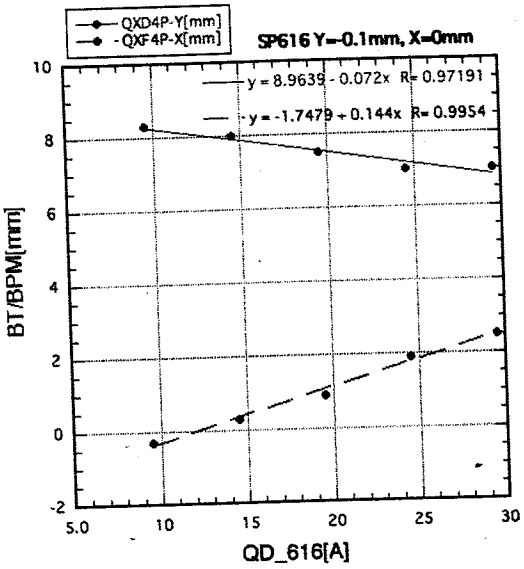


SP616 Xoffs
= 0.8mm

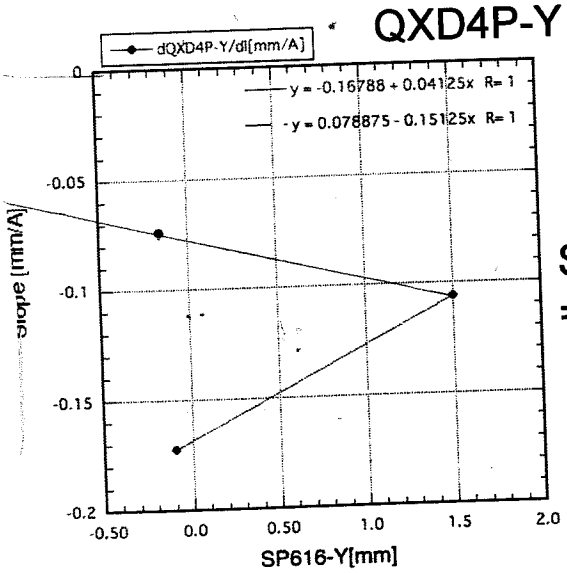


Xoffset~0
Yoffset~0



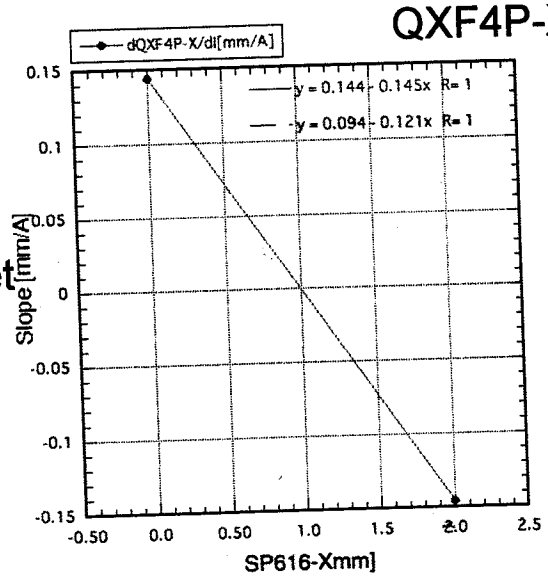


QXD4P-Y



SP616 Yoffset
= ~~4.1~~mm
-3.25

QXF4P-X



SP616Xoffset
= 1.0mm