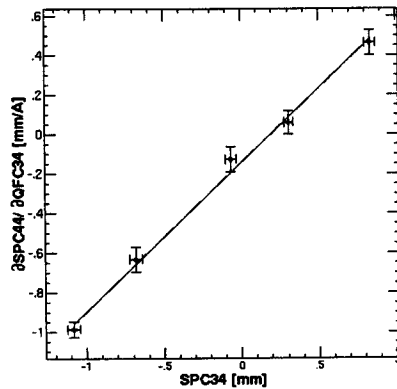


File Edit Window



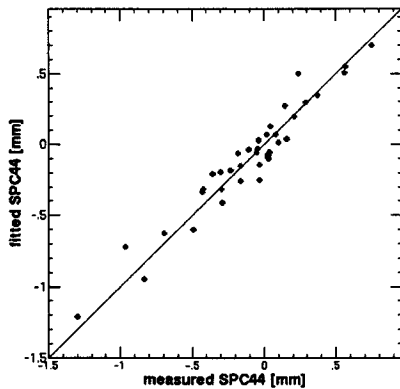
Hard Copy

FILE MENU WINDOW Help

Condition
 BPM to be Calibrated :
 SPC34
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SPC34
 Steering : ((SYC31,1))
 from -2
 to 2
 number 5
 Q magnet: QFC34
 from -1
 to 1
 number
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SPC44 FR
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .20582
 error [mm]: .00585
 Last BPM taken into account :
 SPC84
 rel. curv. thresh. : .7
 FR Ok I Save

File Edit Window

residual = .114 mm



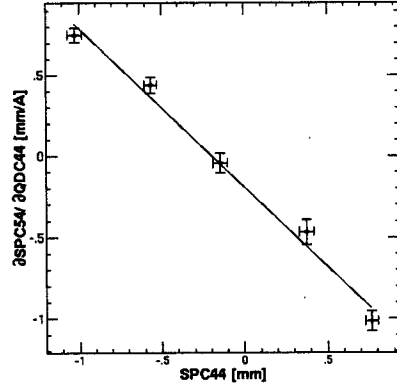
Hard Copy

FILE MENU WINDOW Help

Condition
 BPM to be Calibrated :
 SPC34
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SPC34
 Steering : ((SYC31,1))
 from -2
 to 2
 number 5
 Q magnet: QFC34
 from -1
 to 1
 number
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SPC44 FR
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .20582
 error [mm]: .00585
 Last BPM taken into account :
 SPC84
 rel. curv. thresh. : .7
 FR Ok I Save

SPC44	0.197	0.010	(0.114)
SPC54	0.463	0.052	(0.159)
SPC64	0.229	0.011	(0.109)
SPC74	0.199	0.011	(0.125)
SPC84	0.157	0.019	(0.140)

File Edit Window



Hard Copy

11/19/2003 13:56:39 Help

Condition
BPM to be Calibrated :
SPC44

Direction :
Horizontal \leftrightarrow Vertical

Used Components :
BPM : SPC44
Steering : ((SYC41,1))
from -2
to 2
number 5
Q magnet: QDC44
from -1
to 1
number

next remem. save
GO READ

Display
BPM : Steering step :
SPC54 R1

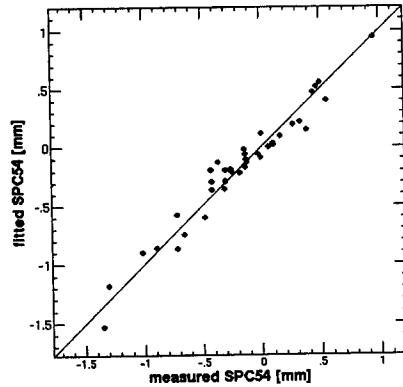
Result
When the beam is at the Q center :
BPM reading [mm]: -1.4797
error [mm]: .0045

Last BPM taken into account :
SP114
rel. curv. thresh. : .7

Rt Ok | Save

File Edit Window

residual = .112 mm



Hard Copy

11/19/2003 13:56:39 Help

Condition
BPM to be Calibrated :
SPC44

Direction :
Horizontal \leftrightarrow Vertical

Used Components :
BPM : SPC44
Steering : ((SYC41,1))
from -2
to 2
number 5
Q magnet: QDC44
from -1
to 1
number

next remem. save
GO READ

Display
BPM : Steering step :
SPC54 R10

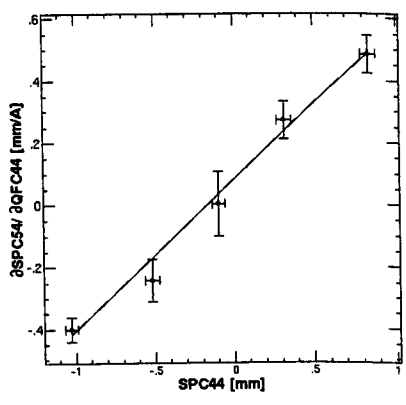
Result
When the beam is at the Q center :
BPM reading [mm]: -1.4797
error [mm]: .0045

Last BPM taken into account :
SP114
rel. curv. thresh. : .7

Rt Ok | Save

SPC54	-0.187	0.008	(0.112)
SPC64	-0.068	0.048	(0.163)
SPC74	-0.122	0.021	(0.161)
SPC84	-0.123	0.008	(0.147)
SP114	-0.144	0.008	(0.097)

File Edit Window



Hard Copy

11/19/2002 15:00:29 Help

Condition
BPM to be Calibrated :
SPC44

Direction :
Horizontal Vertical

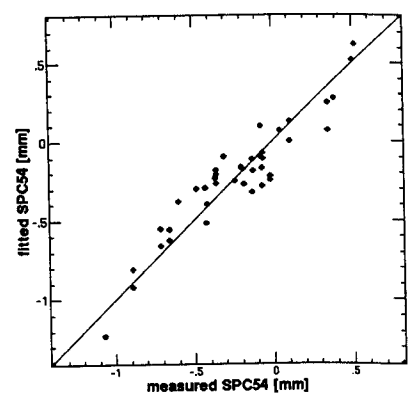
Used Components :
BPM : SPC44
Steering : {("SYC41",1)}
from -2
to 2
number 5
Q magnet: QFC44
from -1
to 1
number
next remem. save
GO READ

Display
BPM : Steering step :
SPC54 Fit

Result
When the beam is at the Q center :
BPM reading [mm]: -1.0227
error [mm]: .00652
Last BPM taken into account :
SP114
rel. curr. thresh. : .7
Fit Ok I Save

File Edit Window

residual = .137 mm



Hard Copy

11/19/2002 15:00:29 Help

Condition
BPM to be Calibrated :
SPC44

Direction :
Horizontal Vertical

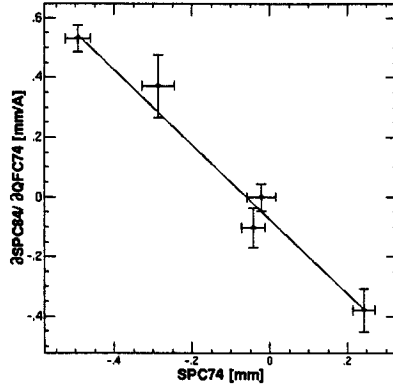
Used Components :
BPM : SPC44
Steering : {("SYC41",1)}
from -2
to 2
number 5
Q magnet: QFC44
from -1
to 1
number
next remem. save
GO READ

Display
BPM : Steering step :
SPC54 Fit

Result
When the beam is at the Q center :
BPM reading [mm]: -1.0227
error [mm]: .00652
Last BPM taken into account :
SP114
rel. curr. thresh. : .7
Fit Ok I Save

SPC54	-0.107	0.020	(0.137)
SPC64	3.482	4.771	(0.169)
SPC74	-0.079	0.030	(0.173)
SPC84	-0.116	0.010	(0.114)
SP114	-0.088	0.011	(0.074)

File Edit Window



Hard Copy

11/19/2003 21:40:37 Help

Condition
BPM to be Calibrated :
SPC74

Direction :
Horizontal Vertical

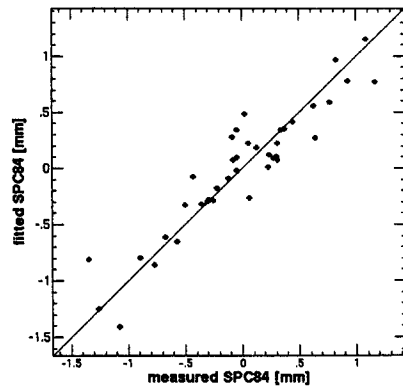
Used Components :
BPM : SPC74
Steering : {{SXC71,1}}
from -1
to 1
number 5
Q magnet: QFC74
from -1
to 1
number
next remem. save
GO READ

Display
BPM : Steering step :
SPC84 Fit

Result
When the beam is at the Q center :
BPM reading [mm]: -0.01848
error [mm]: .00726
Last BPM taken into account :
SP144
rel. cur. thresh. : .7
Fit Chk I Save

File Edit Window

residual = .229 mm



Hard Copy

11/19/2003 21:40:55 Help

Condition
BPM to be Calibrated :
SPC74

Direction :
Horizontal Vertical

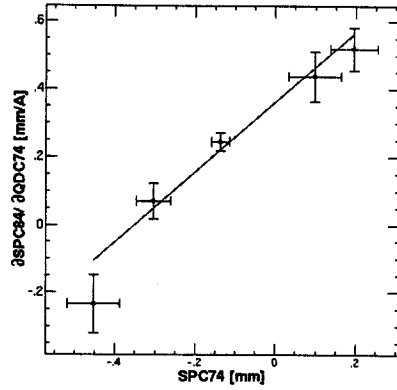
Used Components :
BPM : SPC74
Steering : {{SXC71,1}}
from -1
to 1
number 5
Q magnet: QFC74
from -1
to 1
number
next remem. save
GO READ

Display
BPM : Steering step :
SPC84 Fit

Result
When the beam is at the Q center :
BPM reading [mm]: -0.01848
error [mm]: .00726
Last BPM taken into account :
SP144
rel. cur. thresh. : .7
Fit Chk I Save

SPC84	-0.026	0.014	(0.229)
SP114	-0.015	0.013	(0.204)
SP124	-0.023	0.013	(0.125)
SP134	-0.213	0.265	(0.115)
SP144	0.004	0.023	(0.250)

File Edit Window



Hard Copy

11/19/2003 11:45:51 Help

Condition
 BPM to be Calibrated :
 SPC74

Direction :
 Horizontal Vertical

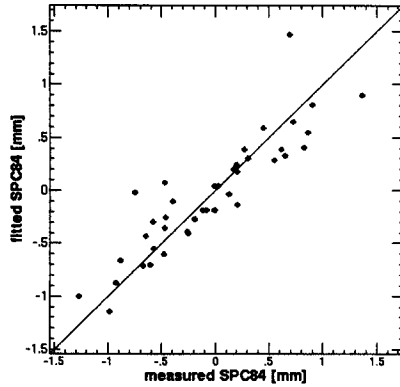
Used Components :
 BPM : SPC74
 Steering : (('SXC71',1))
 from -1
 to 1
 number 5
 Q magnet: QDC74
 from -1
 to 1
 number 8
 next remem. save
 GO READ

Display
 BPM : Steering step :
 SPC84 Fit

Result
 When the beam is at the Q center :
 BPM reading [mm]: -35714
 error [mm]: .04766
 Last BPM taken into account :
 SP144
 rel. curr. thresh. : .7
 Fit Ok I Save

File Edit Window

residual = 0.288 mm



Hard Copy

11/19/2003 11:46:11 Help

Condition
 BPM to be Calibrated :
 SPC74

Direction :
 Horizontal Vertical

Used Components :
 BPM : SPC74
 Steering : (('SXC71',1))
 from -1
 to 1
 number 5
 Q magnet: QDC74
 from -1
 to 1
 number 8
 next remem. save
 GO READ

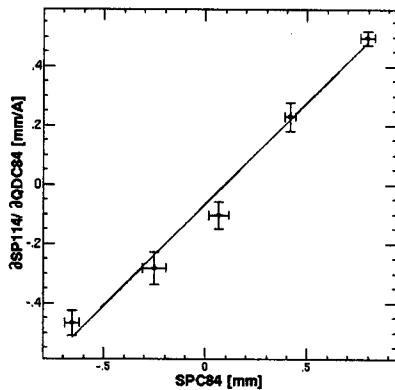
Display
 BPM : Steering step :
 SPC84 Fit

Result
 When the beam is at the Q center :
 BPM reading [mm]: -35714
 error [mm]: .04766
 Last BPM taken into account :
 SP144
 rel. curr. thresh. : .7
 Fit Ok I Save

SPC84	-0.417	0.143	(0.288)
SP114	-0.396	0.099	(0.241)
SP124	-0.337	0.062	(0.118)
SP134	0.350	0.421	(0.114)
SP144	-0.440	0.197	(0.290)

File Edit Window

11/19/2003 22:35:58 Help



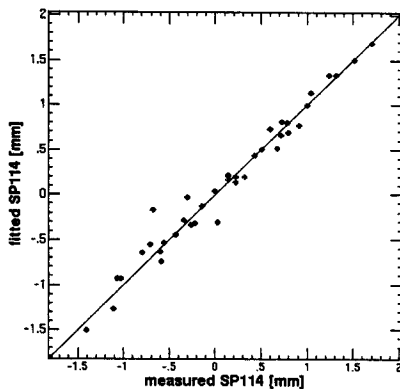
Condition
 BPM to be Calibrated :
 SPC84
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SPC84
 Steering : (('SXC81',1))
 from -2
 to 2
 number 5
 Q magnet: QDC84
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP114 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .11342
 error [mm]: .00585
 Last BPM taken into account :
 SP154
 rel. curr. thresh. : .7
 Fit Ok I Save

Hard Copy

File Edit Window

11/19/2003 22:34:42 Help

residual = .147 mm



Condition
 BPM to be Calibrated :
 SPC84
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SPC84
 Steering : (('SXC81',1))
 from -2
 to 2
 number 5
 Q magnet: QDC84
 from -1
 to 1
 number 8
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP114 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: .11342
 error [mm]: .00585
 Last BPM taken into account :
 SP154
 rel. curr. thresh. : .7
 Fit Ok I Save

Hard Copy

SP114	0.101	0.018	(0.147)
SP124	0.092	0.012	(0.170)
SP134	0.134	0.010	(0.118)
SP144	0.223	0.076	(0.177)
SP154	0.076	0.029	(0.206)

11/25, 2003

Quad BPM	Offset Summary		Hor / Vertical		Vertical QF.
	Offset	Summary	Hor	Vertical	
SPC84		+0.11 mm (+0.07 mm)	0.04		
→ 74		-0.38 mm (-0.38 mm)	-0.02		
64		0.06	0.16		
54		0.04	-0.06		
→ 44		-0.08	-0.31	-0.15	-0.1
→ 34		-0.24	-0.51	0.01	0.2
24		-0.24	-0.40	-3×10^{-4}	0.02
→ (14)		-0.17	-0.71	0.18	0.05

(excitation current)
(MAX current)

[e-modeで電流値が大きいのST.]

128	SY 12 1	magplc1-A2	6	-4.499	000	-4.822	00	5	61	89.98
97	SX C4 1	magplcC-A2	13	4.499	0F3	4.521	0F	5	0.00E+00	89.98
89	SX C2 1	magplcC-A2	5	4.499	0F3	4.502	0F	5	0.00E+00	89.98
249	SX 57 3	magplc5-B2	15	4.499	0F3	4.495	0F	5	00F1	89.98
247	SX 57 1	magplc5-B2	13	4.499	0F3	4.495	0F	5	00F1	89.98
187	SX 27 1	magplc2-B2	9	-4.499	000	-4.751	00	5	61	89.98
131	SX 13 1	magplc1-A2	9	-4.499	000	-4.69	00	5	61	89.98
123	SX 11 1	magplc1-A2	1	4.499	0F3	4.871	0F	5	61	89.98
164	BY 21 K5	magplc2-A5	2	-4.499	000	-4.504	00	5	29	89.98
163	BX 21 K5	magplc2-A5	1	-4.499	000	-4.553	00	5	29	89.98
151	BX 17 4	magplc1-B2	13	4.499	0F3	4.8	0F	5	61	89.98
243	SX 55 1	magplc5-B2	9	-4.387	000	-4.385	00	5	00F1	87.74
216	SY 37 1	magplc3-B2	6	-4.368	010	-4.346	01	5	29	87.36
132	SY 13 1	magplc1-A2	10	4.316	0E1	4.573	0F	5	61	86.32
212	SY 35 1	magplc3-B2	2	4.172	0E1	4.189	0E	5	29	83.44
233	SX 47 3	magplc4-B2	15	-4.082	011	-4.27	01	5	61	81.64
241	SX 53 3	magplc5-B2	7	-4.018	011	-4.021	01	5	00F1	80.36

① X方向, ●, 1, 2, 4, 5 センサ - を先にやる, Y方向 C5, 6, 7, 8

③ ②の後, Y方向の1, 2, 4, 5 センサ -

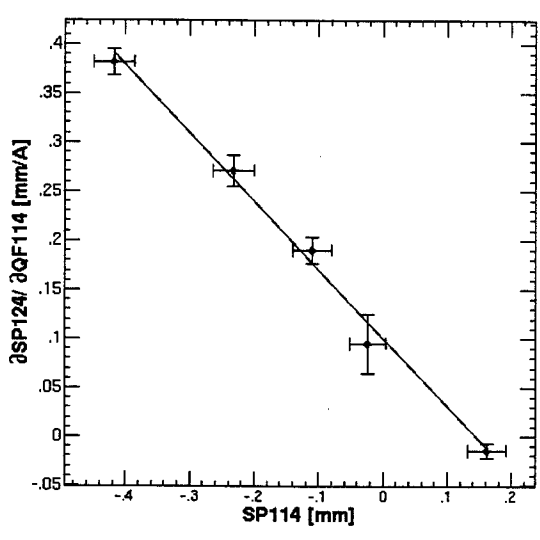
④ ③の後 (X, Y方向 A, B, 3) ~~1, 2, 4, 5 センサ -~~ = SP 5, 6, 7, 8

[et modeで電流値が大きいのST.]

SX C4 1	ma #	4.499	0F32	4.521	0F3C	5	0.00E+00	ON	89.98
SY 07 1	ma #	-4.499	00CD	-4.521	00C4	5	0.00E+00	ON	89.98
SY 12 1	ma #	-4.499	00CD	-4.9	29	5	61	ON	89.98
SX 13 1	ma #	-4.499	00CD	-4.719	73	5	61	ON	89.98
SY 26 3	ma #	4.499	0F32	4.719	0F8D	5	61	ON	89.98
SY 26 4	ma #	4.499	0F32	4.751	0F9A	5	61	ON	89.98
SX 57 1	ma #	-4.499	00CD	-4.492	00D0	5	00F1	ON	89.98
SX 16 1	ma #	4.495	0F30	4.744	0F97	5	61	ON	89.9
SX 12 1	ma #	-4.426	00EB	-4.766	60	5	61	ON	88.52
SY 13 1	ma #	4.114	0.00E+00	4.331	0EEE	5	61	ON	82.28
SX C4 3	ma #	4.026	0.00E+00	4.028	0.00E+00	5	0.00E+00	ON	80.52
SY 21 1	ma #	-4.004	198	-3.999	019A	5	29	ON	80.08
SX C6 3	ma #	-4.001	199	-4.016	193	5	0.00E+00	ON	80.02

File Edit Window

12/12/2003 11:51:08 Help



Hard Copy

Condition
 BPM to be Calibrated :
 SP114

Direction :
 Horizontal Vertical

Used Components :
 BPM : SP114
 Steering : {{"SX111",1}}
 from -1
 to 1
 number 5
 Q magnet: QF114
 from -2
 to 2
 number

next remem. save

GO READ

Display
 BPM : Steering step :
 SP124 Ft

Result
 When the beam is at the Q center :
 BPM reading [mm]: .09385
 error [mm]: .00539

Last BPM taken into account :
 SP164

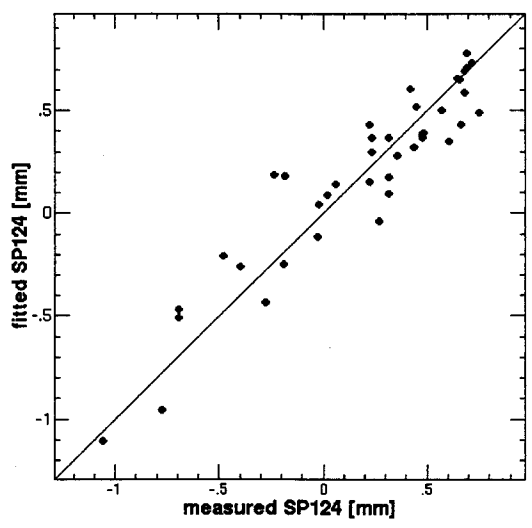
rel. curr. thresh. : .7

Ft Chk I Save

File Edit Window

12/12/2003 11:51:08 Help

residual = .178 mm



Hard Copy

Condition
 BPM to be Calibrated :
 SP114

Direction :
 Horizontal Vertical

Used Components :
 BPM : SP114
 Steering : {{"SX111",1}}
 from -1
 to 1
 number 5
 Q magnet: QF114
 from -2
 to 2
 number

next remem. save

GO READ

Display
 BPM : Steering step :
 SP124 Ft0

Result
 When the beam is at the Q center :
 BPM reading [mm]: .09385
 error [mm]: .00539

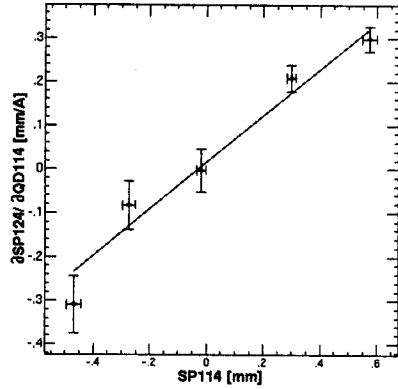
Last BPM taken into account :
 SP164

rel. curr. thresh. : .7

Ft Chk I Save

SP124	0.178	0.016 (0.178)
SP134	0.226	0.014 (0.156)
SP144	0.141	0.010 (0.178)
SP154	0.158	0.026 (0.146)
SP164	-0.018	0.008 (0.128)

File Edit Window



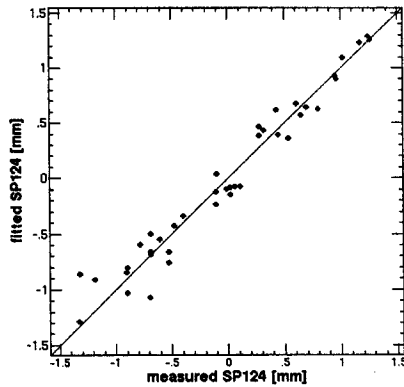
Hard Copy

11/27/2001 12:11:11 Help

Condition
 BPM to be Calibrated :
 SP114
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP114
 Steering : (('SX111',1))
 from -2
 to 2
 number 5
 Q magnet: QD114
 from -1
 to 1
 number
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP124 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: -0.47
 error [mm]: .00773
 Last BPM taken into account :
 SP164
 rel. curr. thresh. : .7
 Fit Ok I Save

File Edit Window

residual = .164 mm



Main Application Area

11/27/2001 12:11:11 Help

Condition
 BPM to be Calibrated :
 SP114
 Direction :
 Horizontal Vertical
 Used Components :
 BPM : SP114
 Steering : (('SX111',1))
 from -2
 to 2
 number 5
 Q magnet: QD114
 from -1
 to 1
 number
 next remem. save
 GO READ
 Display
 BPM : Steering step :
 SP124 Fit
 Result
 When the beam is at the Q center :
 BPM reading [mm]: -0.47
 error [mm]: .00773
 Last BPM taken into account :
 SP164
 rel. curr. thresh. : .7
 Fit Ok I Save

SP124	-0.039	0.026 (0.164)
SP134	-0.019	0.012 (0.126)
SP144	-0.091	0.013 (0.110)
SP154	-0.043	0.022 (0.143)
SP164	0.055	0.051 (0.162)