

6/8. 15:30. beam monitor calibration.

- F2 Gate valve close.
- Bp = 1.81.

repeat okuno-calib. (p. 147 of previous log)

- confirm that the calib. clock-trig.

DBI 130 mA At 1/10
RIPS 72 mA

target Be 92mm

Run 232 Junk

233 At = 1/10 ~ 70 nA ~~at 1/10~~ @ RIPS

234 At = 1/2 (R) + 1/3 (L)
~ 130 mA @ RIPS

33 0.1 μ A Range Att = 1/16

clock/1000 = 47.8 sec

FC = 34785 = 728 cps = 72.8 nA

Momota = 157739 = 3300 cps / 0.022 nA / momota

234 0.3 μ A Range Att = 1/6

clock = 40.8 sec

FC = 14124 = 346 cps = 104 nA

M = 200340 = 4910 cps / 0.021 nA / @ Momota

235 0.3 μ A Att = 1/3

clock = 23.2 sec

FC = 16245 = 700 cps = 210 nA

momota = 247849 = 10.7K / 0.0196 nA / momota

m 237 1 μ A Full beam

clock = 16.3 sec

FC = 10948 = 672 cps = 672 nA

momota = 33.3K

0.0202 nA

cf. Run 145 \rightarrow 0.0173 nA / momota

$$\frac{0.022}{0.017} = \underline{\underline{1.3}}$$

momota decreased.

Resume F2 plq threshold to -30mV .
clock trig

Rm 238

$$A_H = 1/6$$

$$F_1 = \pm 5\text{mm}$$

$$F_2 \sim 17\text{kcp/s}$$

$$D_61 \sim 200\text{nA}$$

Rm 239

$$A_H = 1/3 (L) \times 1/3 \times 1/2 (R)$$

$$F_1 = 15\text{mm}$$

$$F_2 = 5\text{kcp/s}$$

Rm 240

$$A_H = 1/6 (L) \times 1/6 (R)$$

$$F_1 = 15\text{mm}$$

$$F_2 \sim 2.6\text{kcp/s}$$

Rm 241

$$A_H = 1/6 (L) \times 1/10 (R)$$

$$F_1 = 15\text{mm}$$

$$F_2 = 400\text{cp/s}$$

Rm 242

$$A_H = 1/6 (L) \times 1/30 (R)$$

$$F_1 = \pm 5\text{mm}$$

$$F_2 = 100\text{cp/s}$$

Rm 243

$$A_H = 1/10 (L) \times 1/2 \times 1/3 \times 1/10 (R)$$

$$F_1 = \pm 5\text{mm}$$

$$F_2 = 50\text{cp/s}$$

~ 244

$$A_H = 1/60 (L) \times 1/20 (R)$$

$$F_1 = \pm 5 \text{ mm}$$

$$F_2 = 30 \text{ cps}$$

m 245

$$A_H = 1/60 + 1/20 \quad (\text{same})$$

$$F_1 = \pm 50 \text{ mm}$$

$$F_2 = 100 \text{ cps}$$

~ 246

$$A_H = 1/20 (L) \times 1/1000 (R)$$

$$F_1 = \pm 50 \text{ mm}$$

$$F_2 = 90 \text{ cps}$$

Rm 247

$$A_H = 1/60 \times 1/20$$

$$F_1 = \pm 50 \text{ mm}$$

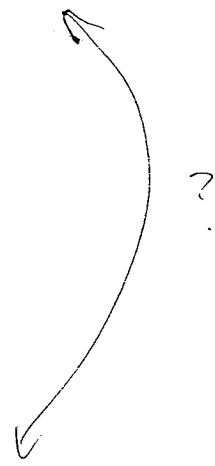
$$F_2 = 20 \text{ cps}$$

Rm 248

$$A_H = 1/20 (L) \times 1/2 \times 1/3 \times 1/100 \times 1/10 (R)$$

$$F_1 = 50 \text{ mm}$$

$$F_2 = 20 \text{ cps}$$



Parameter				Target		F2	
Q1	1.3167	117.7562	117.779	Tgt 194.5	mm	FC	Out
Q2	1.5337	94.0689	92.789	FC	Out	Rgt	50.1
Q3	0.7725	89.3036	89.303	Up 24.0	mm	Lft	50.0
SX1	0.0000	0.1469	0.000	Dwn 24.0	mm	PPAC	
D1	0.2777	280.0715	281.973	Rgt 24.0	mm	SSD	-94.7
SX2	0.0000	0.1469	0.026	Lft 23.8	mm	Deg	Out
Q4	0.5572	48.3737	48.368	Lgt		Pla	-4.9
Q5	0.7942	60.6366	60.779				IN
Q6	0.6197	53.9786	54.220				
SX3	0.0000	0.1469	0.000				
D2	0.2777	291.3142	290.595	F1		F3	
Sx4	0.0000	0.1469	0.000	D1 119.9	mm	PPAC1	IN
Q7	0.6468	74.7512	75.626	ld -135.1	mm	Rgt	50.0
Q8	1.1259	78.0552	78.305	Rgt 50.0	mm	Lft	50.0
Q9	1.0222	91.1929	91.079	Lft 49.9	mm	PPAC2	IN
Q10	1.1110	104.8931	106.228	Mom	Out	SSD	Out
Q11	1.4205	115.1781	113.726	Deg	Emp	Pla	IN
Q12	1.1106	104.8552	105.894	PPAC	Out	Lgt	
Focus		Brho	TA-F1 1.8100	Tm			
F1-F2	1.8100	Tm	F2-F3 1.8100	Tm	Rot 0	deg.	

Update [

D1 = 503.582

D2 = 503.870

249 (same as 238)

$$A_H = 1/6$$

$$F_1 = \pm 5 \text{ mm}$$

$$F_2 = 15 \text{ keps}$$

m 250

$$A_H = 1/6$$

$$F_1 = \pm 1 \text{ mm}$$

$$F_2 = 2.5 \text{ keps}$$

m 251

$$A_H = 1/3$$

$$F_1 = \pm 1 \text{ mm}$$

m 252

$$A_H = 1/2$$

$$F_1 = \pm 1 \text{ mm}$$

$$F_2 = 9 \text{ k}$$

m 253

$$A_H = 1$$

$$F_1 = \pm 1 \text{ mm}$$

$$F_2 =$$

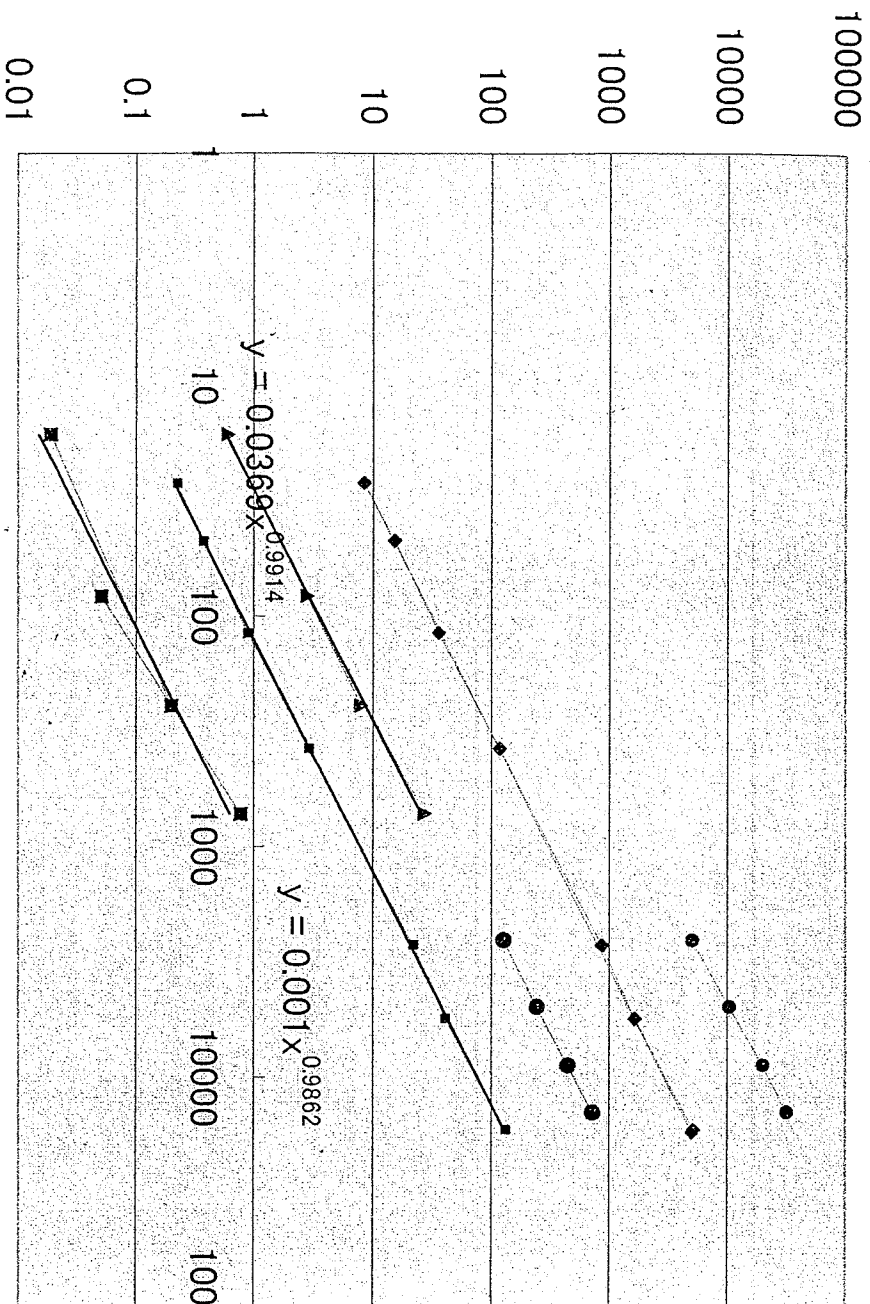
→ RF DOWN ← Junk

m 254

$$A_H = 1$$

$$F_1 = \pm 1 \text{ mm}$$

beam mon calib



- Okuno
- ▣ Okuno-low
- Okuno-high
- ▲ Momota
- ◆ momota-low
- momota-high
- 累乘 (Okuno)
- 累乘 (momota-low)
- 累乘 (Okuno-low)

F2

RIPS Control Summary				2004/06/09 09:49:15	
Parameter	Set Curr.	Read Curr.	Target	F2	
Q1	1.3167	193.214	Tgt 194.6	mm	FC Out
Q2	1.5337	153.9581	FC Out		Rgt 50.1
Q3	0.7725	146.1256	Up 24.0	mm	Lft 50.0
SX1	0.0000	0.1469	Dwn 24.0	mm	PPAC
D1	0.2777	458.4246	Rgt 24.0	mm	SSD -94.7
SX2	0.0000	0.1469	Lft 23.8	mm	Out
Q4	0.5572	80.1216	Lgt		Deg -4.9
Q5	0.7942	100.1498			IN
Q6	0.6197	89.2875			
SX3	0.0000	0.1469			
D2	0.2777	476.5013	F1		F3
SX4	0.0000	0.1469	D1 119.8	mm	PPAC1 IN
Q7	0.6468	122.3272	ld -134.9	mm	Rgt 49.9
Q8	1.1259	127.5091	Rgt 3.1	mm	Lft 50.0
Q9	1.0222	149.7736	Lft 2.9	mm	PPAC2 IN
Q10	1.1110	171.6194	Mom Out		SSD Out
Q11	1.4205	188.1760	Deg Exp		Pla IN
Q12	1.1106	171.5579	PPAC Out		Lgt
Focus	Brho	IA-F1 2.9600	Rot 0	deg.	
F1-F2 2.9600	Tm	F2-F3 2.9600			

Update exit

$$D1 = 821.855$$

$$D2 = 822.39$$

100 AM. Beam Stop. End run
of SSD.

E1: 96.0 V . 0.52 μ A

E1: 100V . 2.48 μ A

E2: 97.9 V . 1.42 μ A

E4: 95.6 V . 0.30 μ A

E3: 95.5 V . 0.24 μ A

of plastic

		h ν set
F2-L	1898.0	1900
R	1899.8	1900
F3-L	1808.6	1800
R	1800.0	1800
okuno 1	1155.6	1155
2	1208.6	1200
3	1154.8	"
MMT big	1201.2	1200
sm	1788.0	1800
Dy1	0005.0	5
2	0126.6	126
B α F	1352	1350
PPAC F3A		-755
B		-755

m 275 Clock Trig.

beam off

PPAC HV off

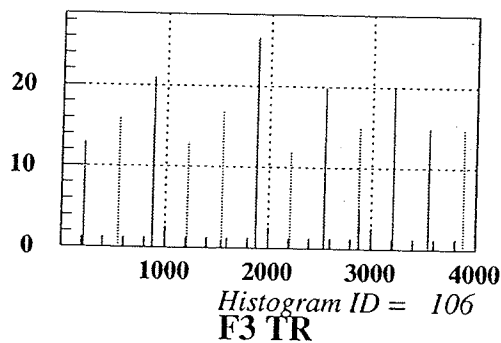
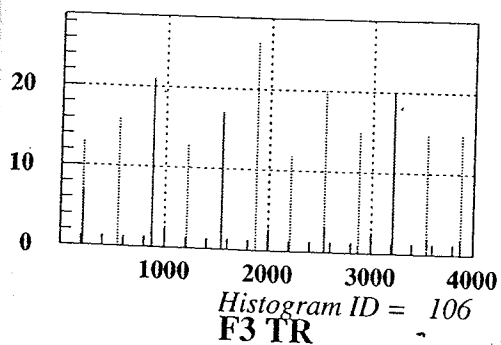
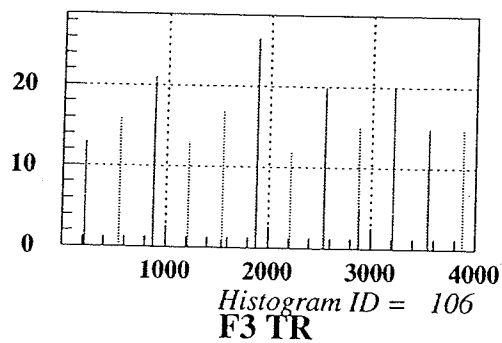
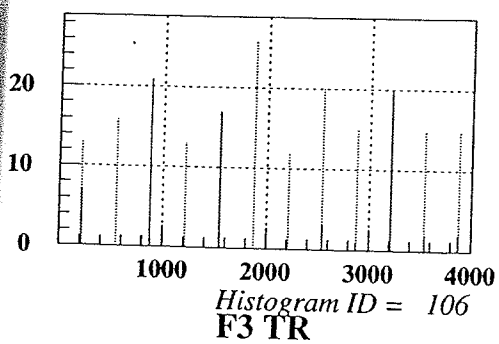
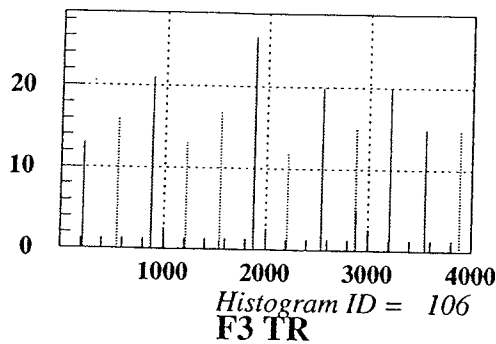
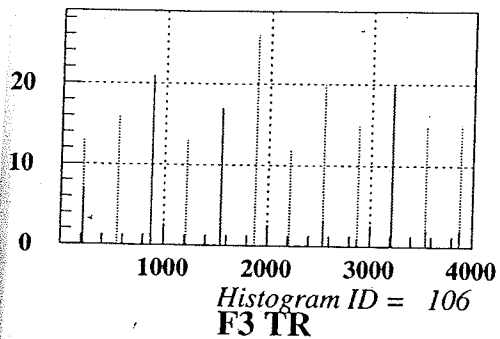
plastic (F2/F3/okuno/monote) ON.

SSD HV off

m 276 Time Calib.

period = 0.02 μ s

2004/06/09 10.01



PPAC Gas

F3	mass flow	40.0	
	pressure	8.52 Torr	
	Niedle V.	7 + 13.5	
F2	mass flow	37.0	
	pressure	9.41	
	Niedle V	7 + 0.7	Gas.
F1	mass flow	009	
	pressure	8.70	
	Niedle	11 + 10.2	
	Gas	1:R : 8.4 kg/m ³	
		2:R : 8.5	