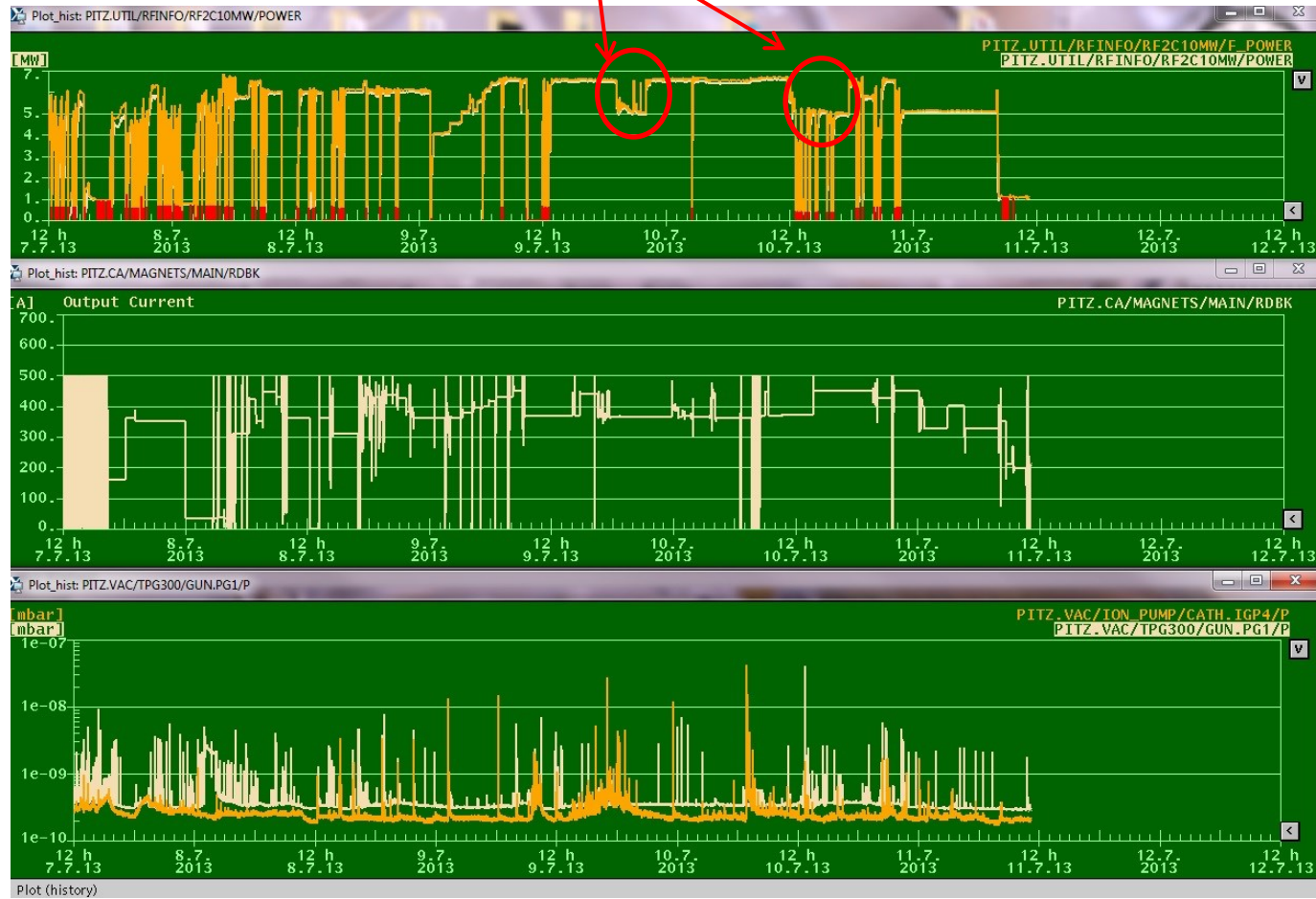
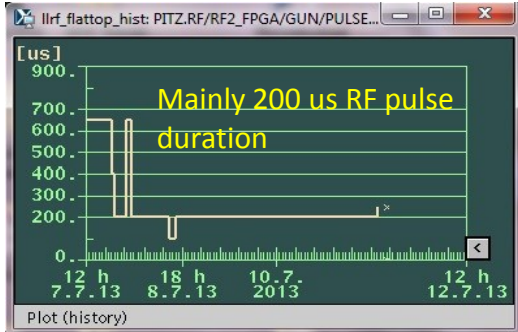


PITZ RC 11.07.2013

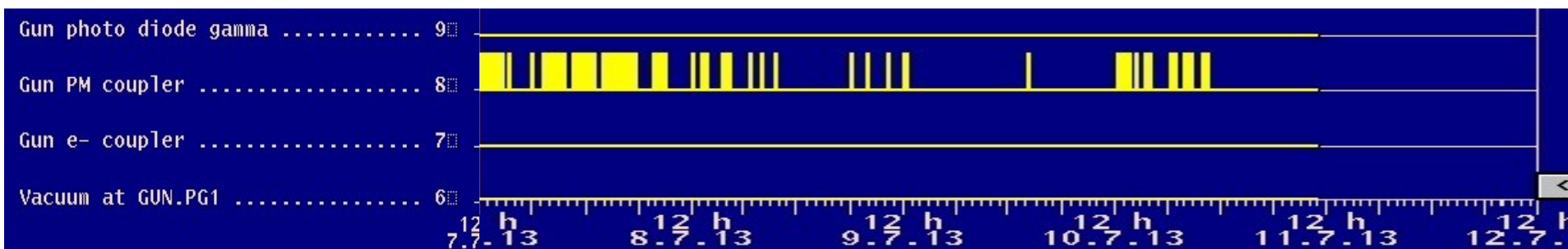
Summary of the last 4 days of run

Last dark current measurement at 6.5MW in the gun (~84uA)

The real power was 6.5 MW!

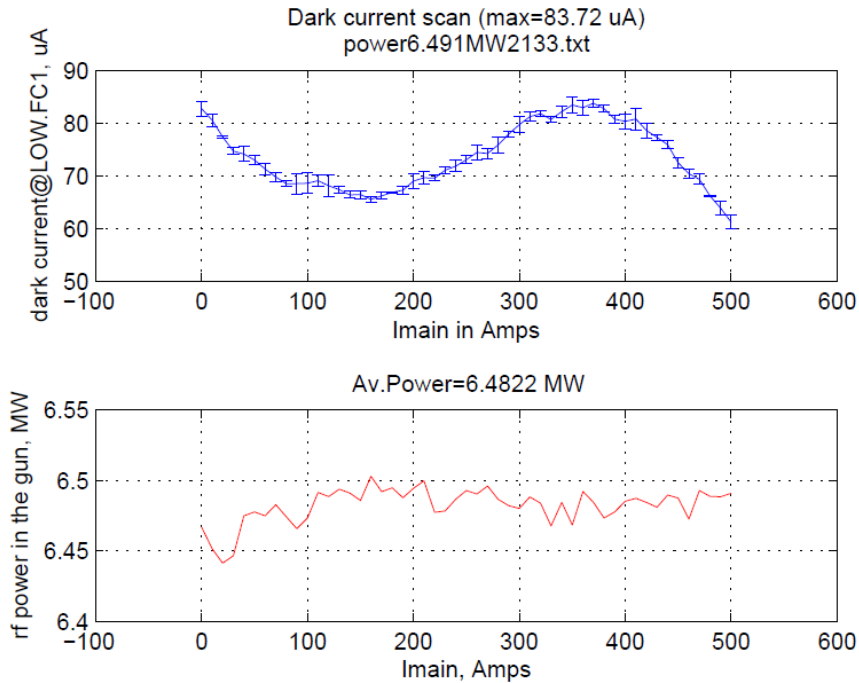


- Yesterday M+A runs: 200 us, 6.5 MW in the gun, ~ 15 PM coupler interlocks per shift
- Yesterday N run: 200 us, 5 MW in the gun -> no interlocks



Dark current

10_07_A, last measurement : 84uA with 6.5 MW power in the gun



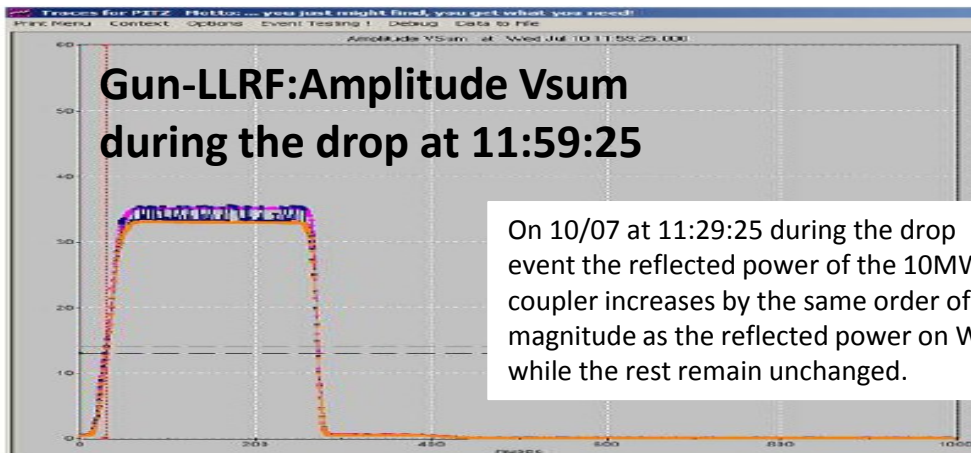
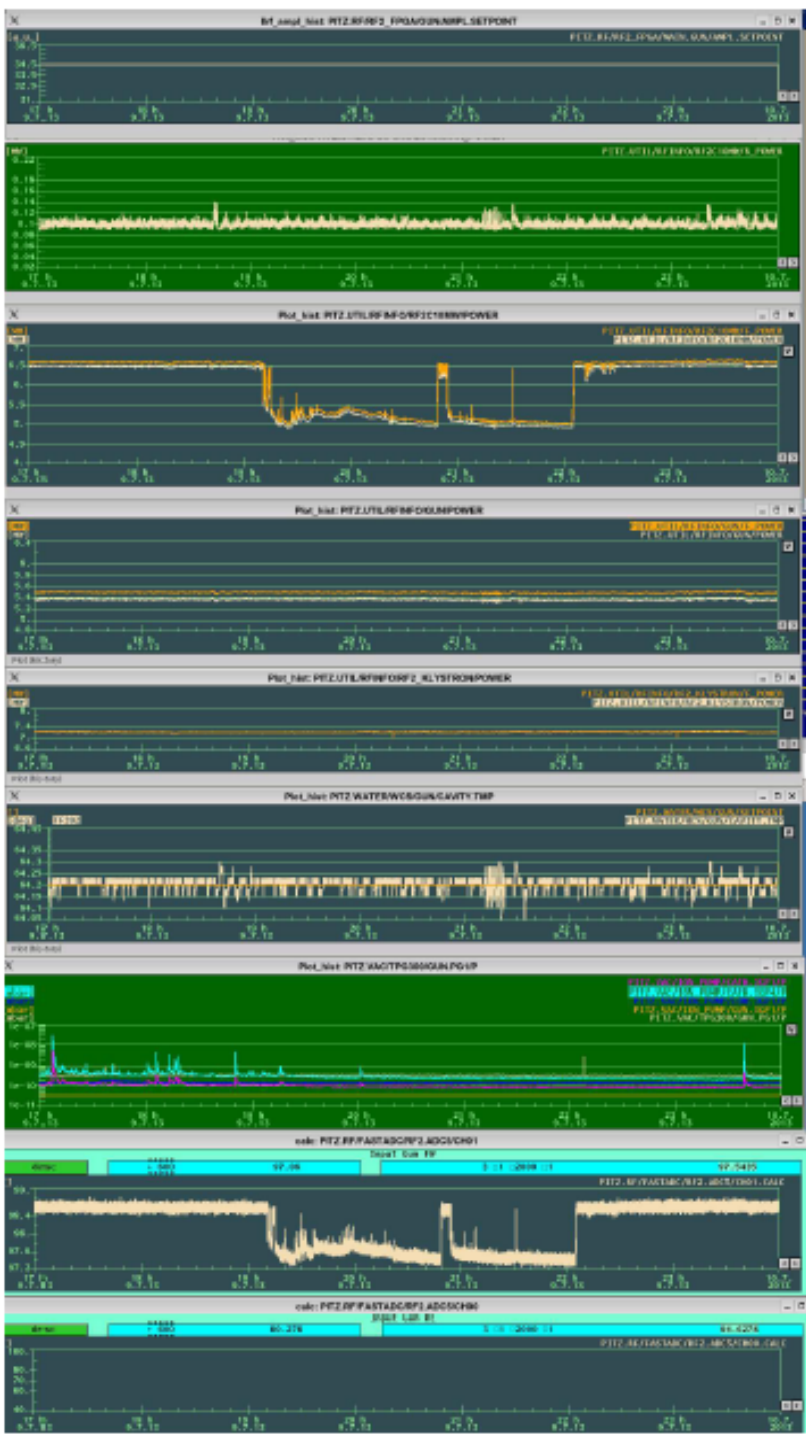
Previous measurements:

10_07_M -> 98 uA (6.5 MW)

09_07_N-> 92 uA (6.4 MW)

09_07_M-> 133uA (6.5 MW), 124uA (6.4 MW)

Problem concerning the measurement of the power in the gun



See also the entries in the 10_07_A

During this time the measured maximum beam momentum at LEDA was **6.3 MeV** (corresponding to $\sim 6.5\text{MW}$ in the gun) while the read power was **5MW**

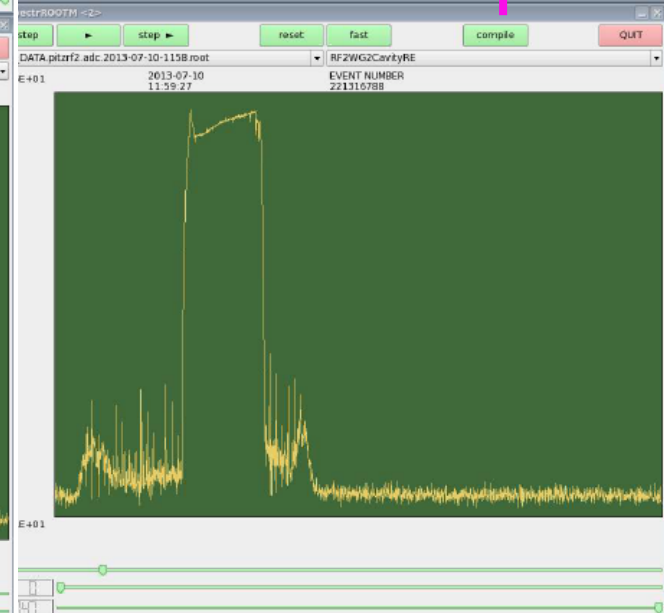
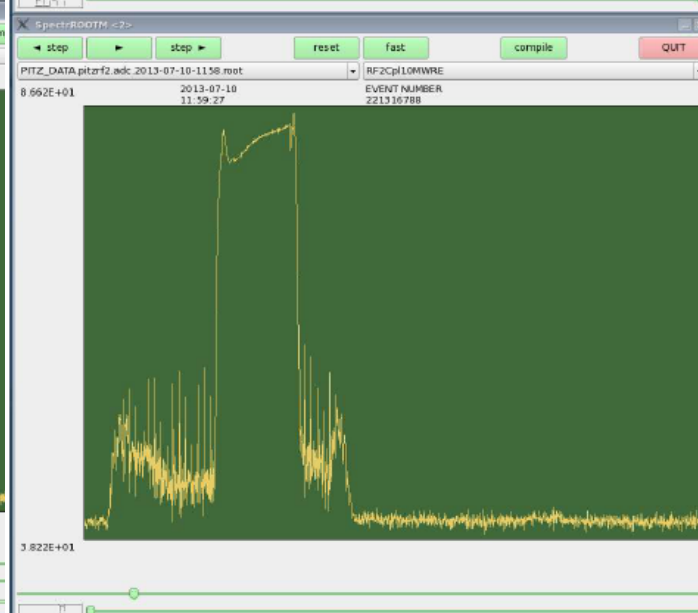
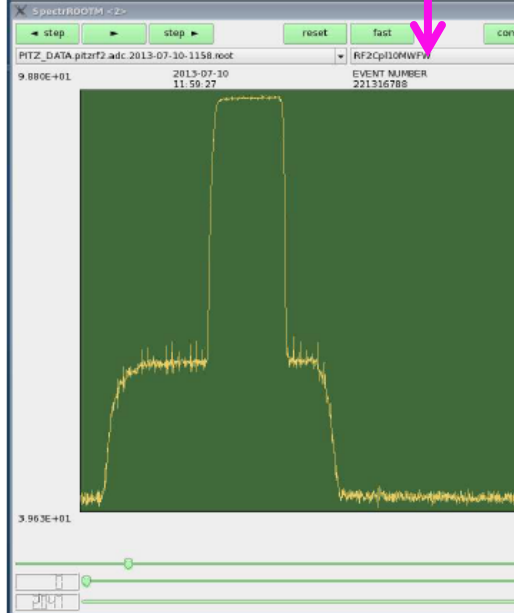
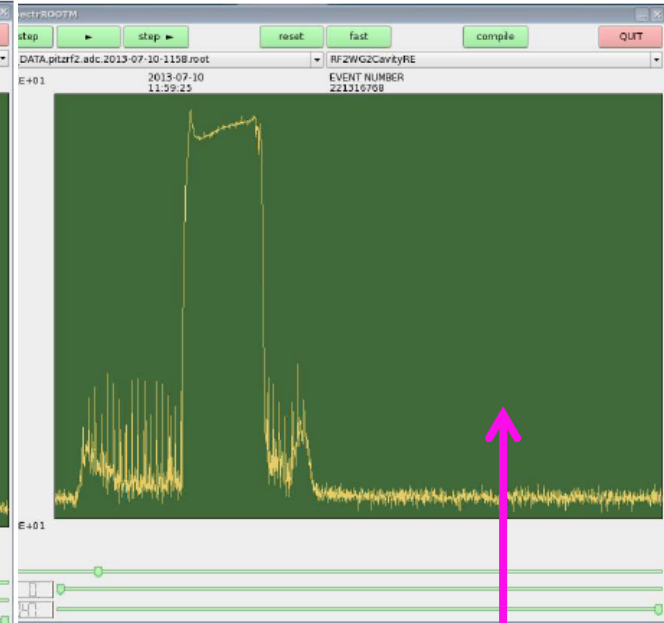
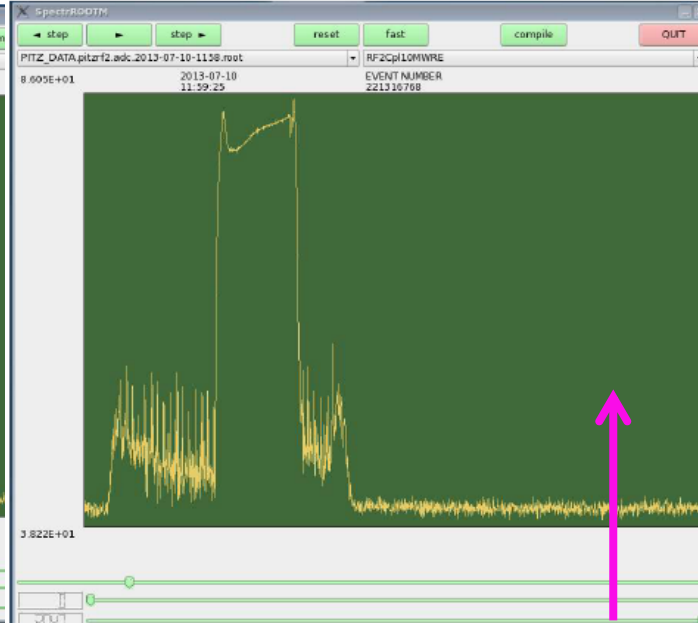
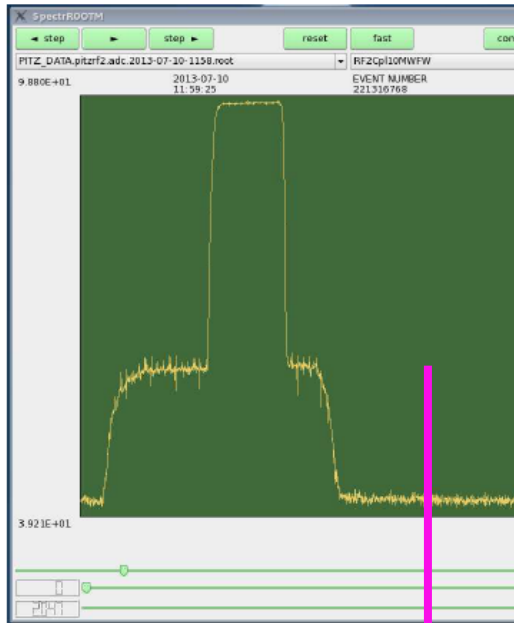
Logbook entry		RF2 SP	Gun forward RB(MW)			Power in Gun	I _{main}	LEDA Dipole current	P _{max} from LEDA	P _{rms,min} from LEDA
Date	Time		Klystron	T-combiner	10MW coupler	(MW)	(A)	(A)	(MeV/c)	(keV/c)
09.07.2013	08:58	34.5	7.22	5.50	6.62	6.5	450	-1.71	6.36	9.44
	09:06	34.5	7.21	5.49	6.61	6.5	450	-1.71	6.35	8.20
	14:13	34.5	7.23	5.50	6.57	6.5	430	-1.70	6.40	17.69
	17:37	34.5	7.20	5.47	6.56	6.5	450	-1.71	6.35	9.76
10.07.2013	04:03	34.5	7.10	5.45	6.55	6.4	443	-1.72	6.36	19.3
	09:07	35.2	7.30	5.52	6.61	6.5	447	-1.75	6.37	8.75
	09:16	35.2	7.25	5.54	6.65	6.5	447	-1.75	6.38	8.33
	14:11	35.21	7.30	5.54	5.13	5.0	450	-1.70	6.38	18.35
	14:55	35.21	7.30	5.53	5.09	5.0	450	-1.70	6.34	22.70

- 09/07 roughly between 19:00 and 22:00
- 10/07 roughly between 12:00 and 17:45

RF2 CPL 10MW FW

RF2 CPL 10MW RE

RF2 WG2 RE

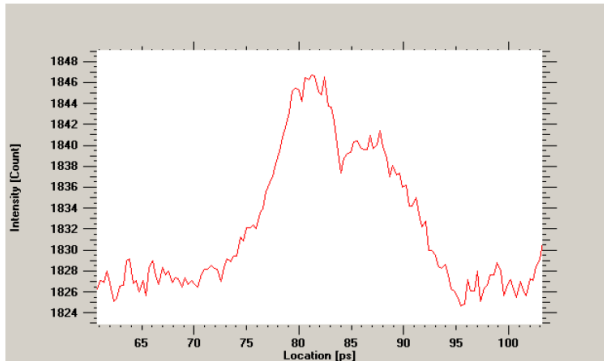


Beam modulation & satellites 1/3

Laser

(short gaussian)

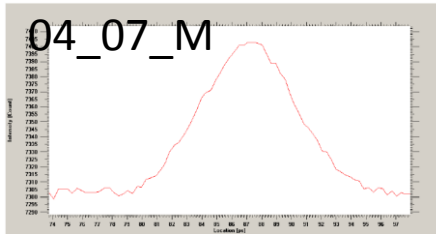
Measured on 03_07_M:



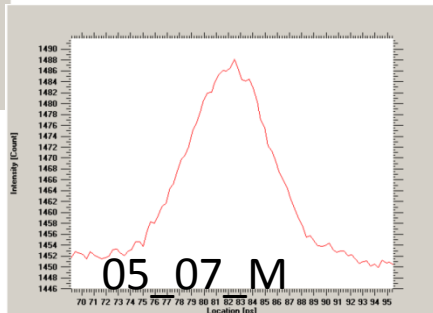
Measurements on

04_07_M, 05_07_M, 08_07_M, 10_07_M
do not show any modulation:

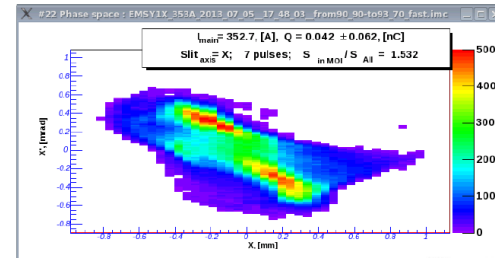
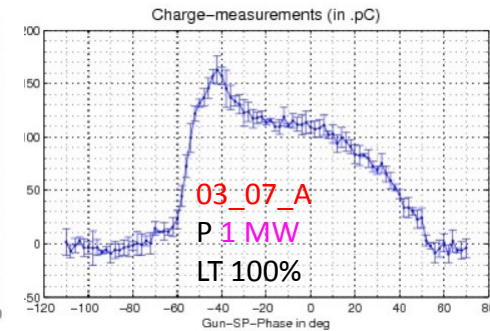
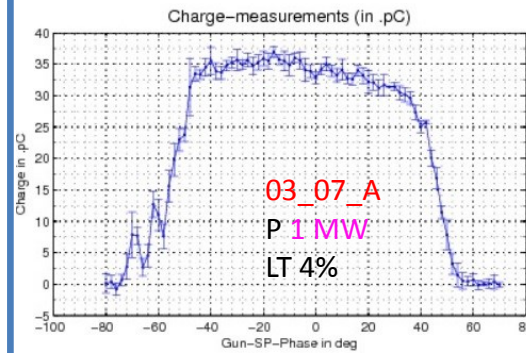
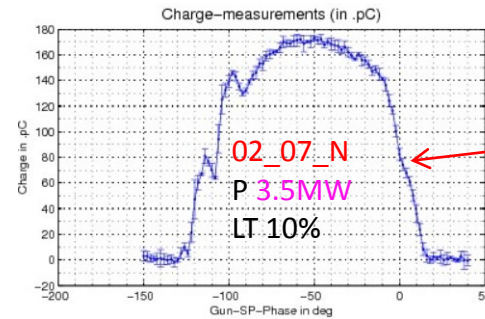
04_07_M



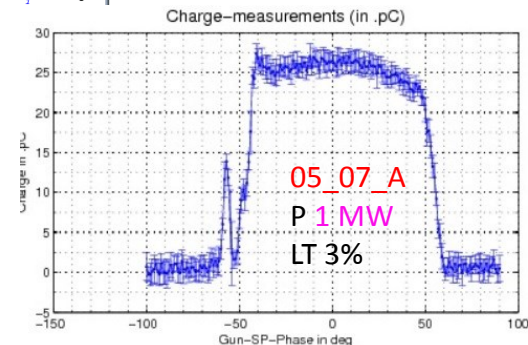
05_07_M



E-beam

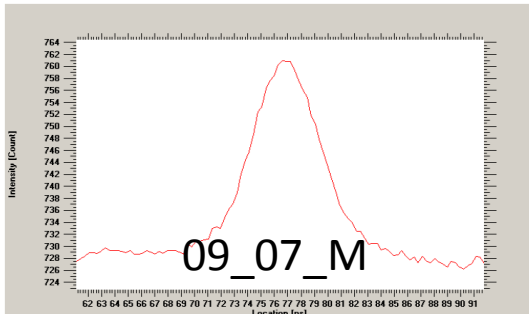
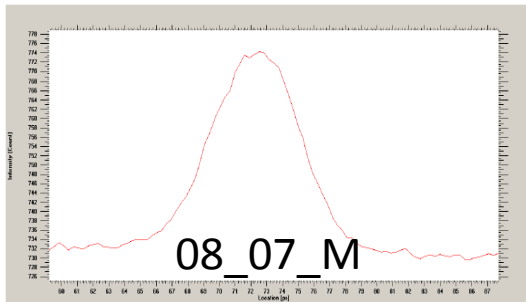
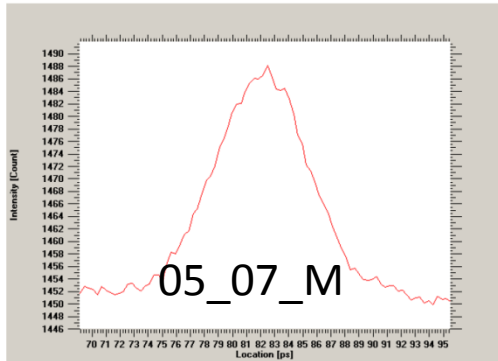


05_07_A

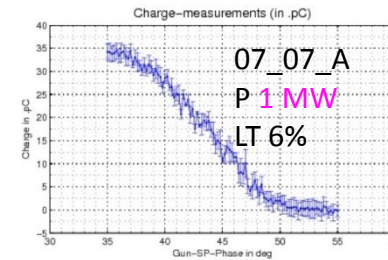
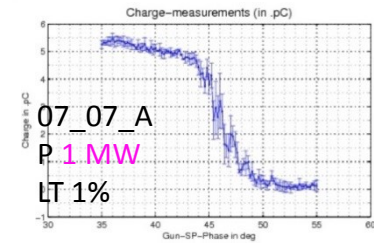
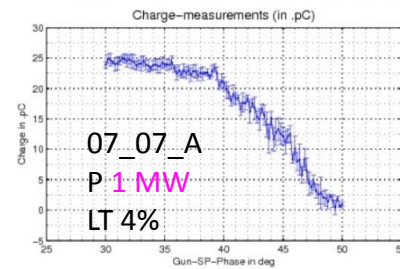
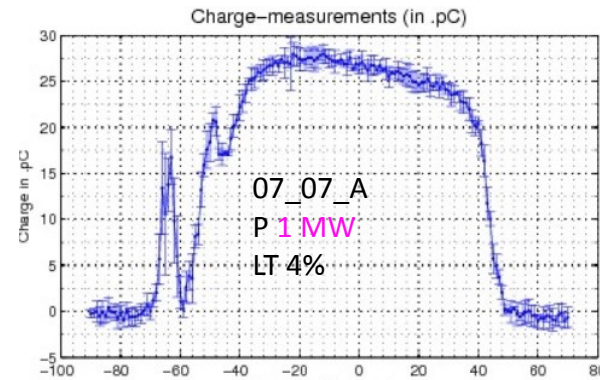


Beam modulation & satellites 2/3

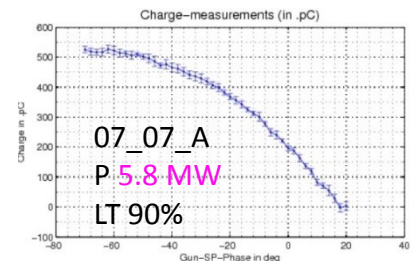
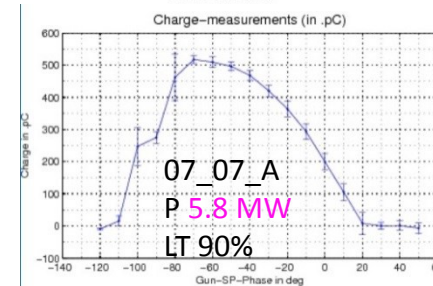
Laser
(short gaussian)



E-beam

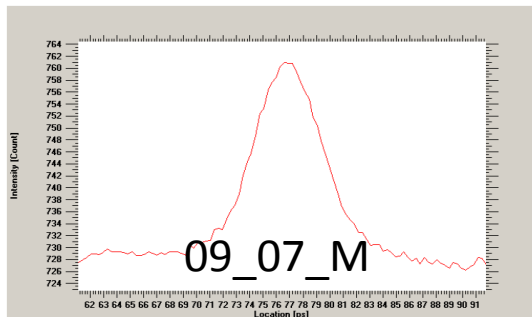
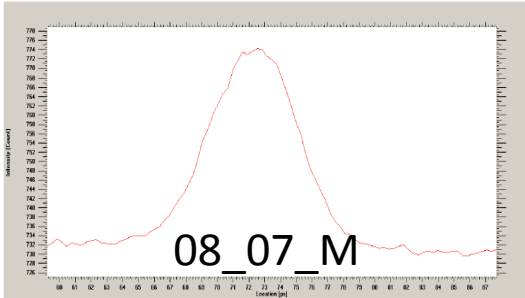


No trace of the second beam on the right side of the curve

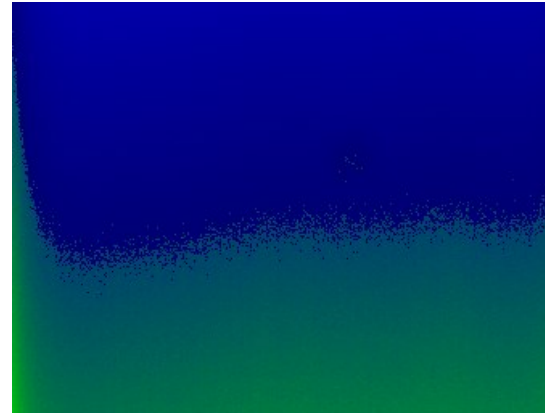


Beam modulation & satellites 3/3

Laser
(short gaussian)



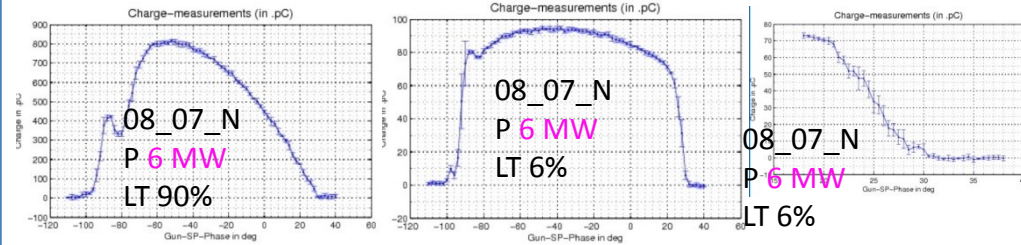
Low.Scr1 while scanning
the gun phase in the range
-100 / +30 deg



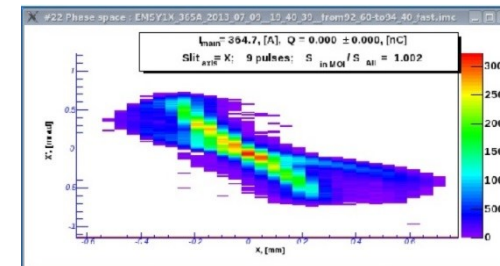
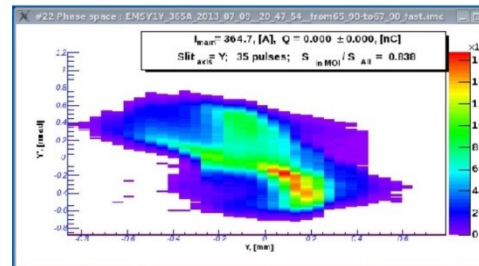
E-beam

08_07_A

3 beams can be seen.
beam focus
phases are about
-80, -36, and -6
deg.



09_07_A
EMSY1
700 pC



to do:	Run Period						
Week 28	Mon Jul-08	Tue Jul-09	Wed Jul-10	Thu Jul-11	Fri Jul-12	Sat Jul-13	Sun Jul-14
Morn. 07:00 to 15:30	Malyutin Martin	Malyutin Pathak	Malyutin Martin	<div style="background-color: #4a7ebb; color: yellow; padding: 5px; text-align: center;">Solenoid BBA</div>			
Late 15:00 to 23:30	Kourkafas Prach B.	Kourkafas Prach B.	Kourkafas Prach B.				
Night 23:00 to 07:30	Otevrel Kalantaryan	Otevrel Kalantaryan	Otevrel Kalantaryan	<div style="background-color: #9999cc; padding: 10px;"> <div style="background-color: #4a7ebb; color: yellow; padding: 5px; text-align: center; margin-bottom: 10px;">Emittance measurements?</div> <div style="background-color: #4a7ebb; color: red; padding: 5px; text-align: center; margin-bottom: 10px;">Dark current</div> <p style="text-align: center;">Trip rate monitoring at 200us x [5.5; 6.0; 6.5MW]</p> </div>			
Resp. Phys							
Laser	Gross	Gross	Gross	Krasilnikov	Krasilnikov	Krasilnikov	Krasilnikov
RF	Koehler	Koehler	Koehler	Koehler	Koehler	Koehler	Koehler
Vaku.	Bienge	Bienge	Bienge	Bienge	Bienge	Bienge	Bienge
Contr.	Petrosyan	Petrosyan	Petrosyan	Petrosyan	Petrosyan	Petrosyan	Petrosyan
Electr.	Schade	Schade	Schade	Schade	Schade	Schade	Schade
Infrast.	Schulze	Schulze	Schulze	Schulze	Schulze	Schulze	Schulze
SSB	Petrosyan	Petrosyan	Petrosyan	Petrosyan	Petrosyan	Petrosyan	Petrosyan
Schichtabsich	Gross	Gross	Isaev	Isaev	Isaev	Kourkafas	Kourkafas

Issued on 21-Jun-2013

A gray field means the status has changed since the last version