T2.9: Performance on ISIS
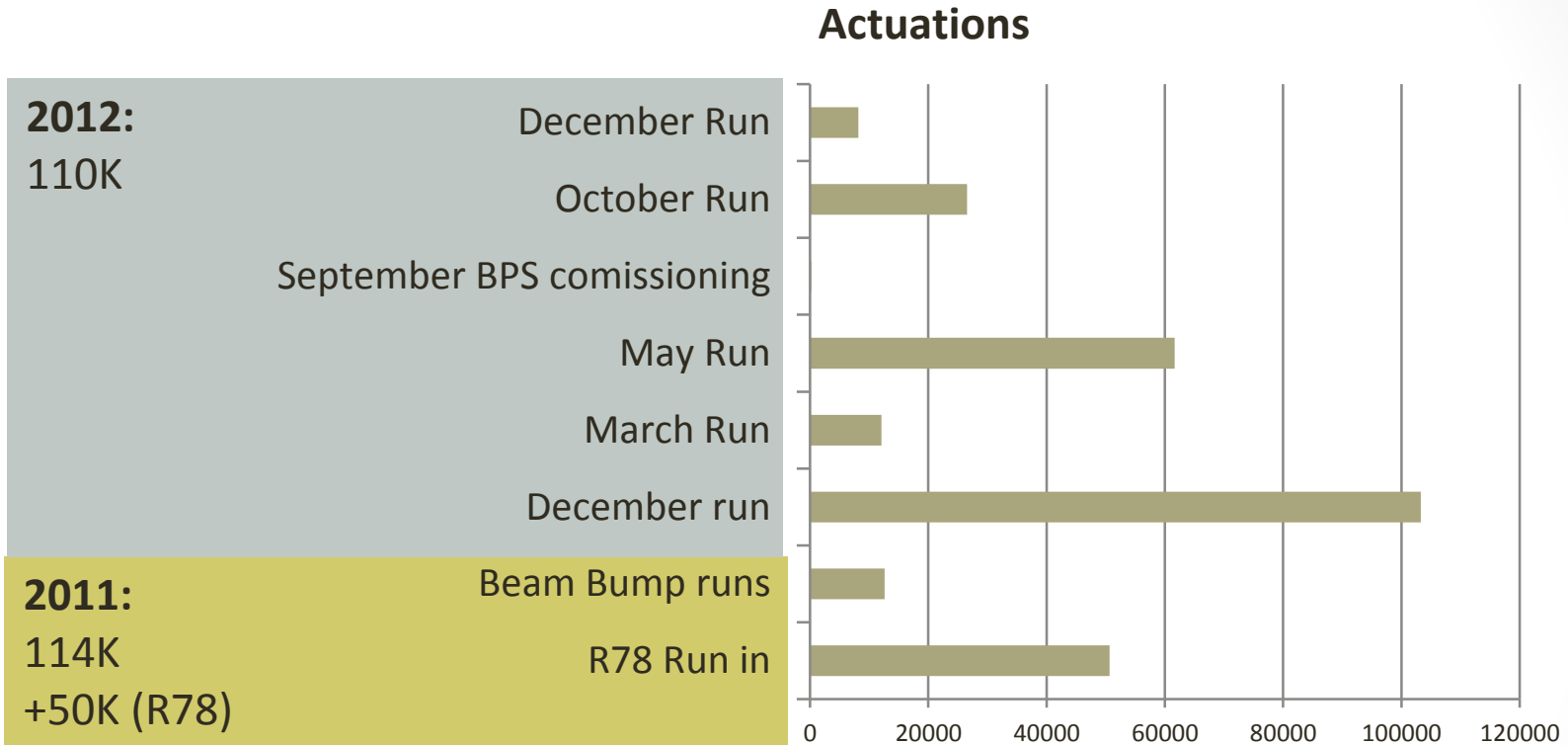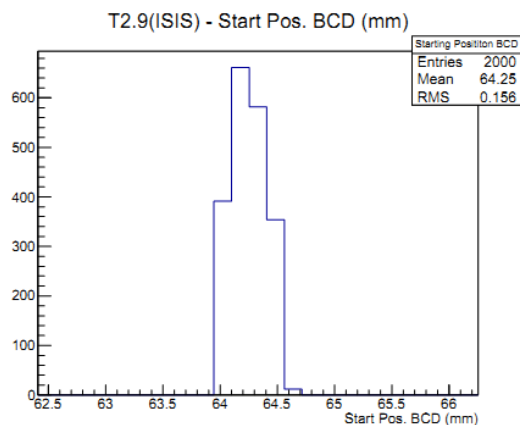
1. Brief Running history

2. Performance

3. Laser Amplitude & Startup

Brief Running History
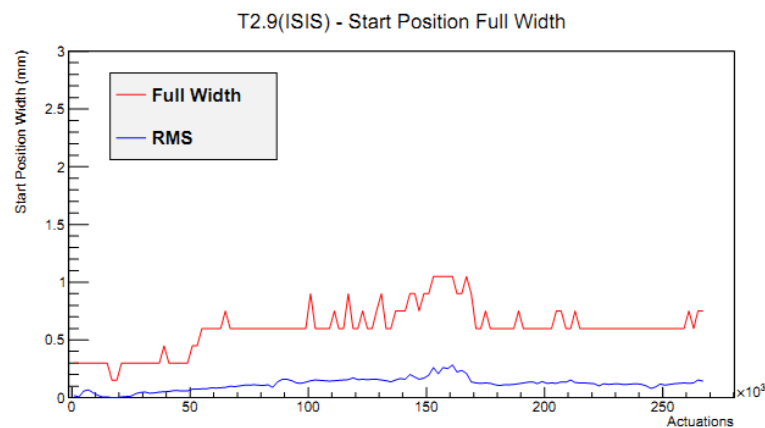
Actuations

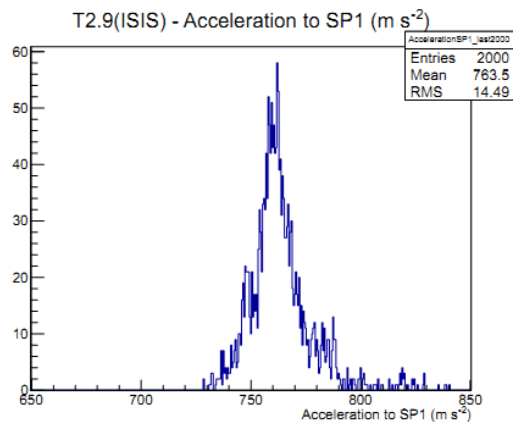| 2012: 110K		
December Run		8000
October Run		26000
September BPS comissioning		
May Run		61000
March Run		12000
December run		103000

2011: 114K +50K (R78)		
Beam Bump runs		12000
R78 Run in		50000

Axis: 0, 20000, 40000, 60000, 80000, 100000, 120000

Total: 269K

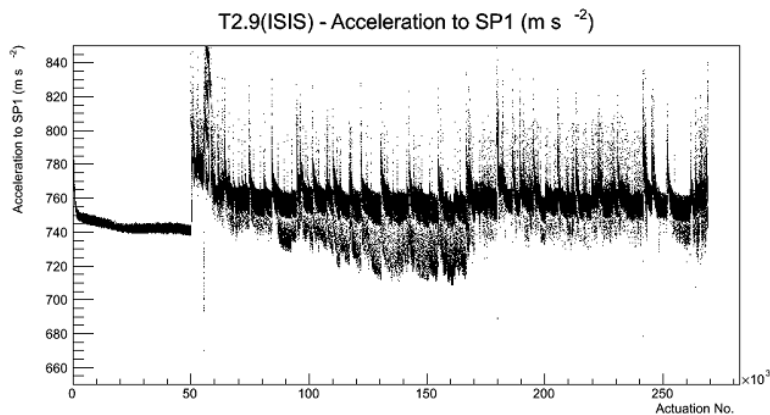|	Last Shift	Total
Actuations:	5.4K	269.1 K
Quadrature Count errors:	0	0
Fiber ADC errors:	36	61634
BPS errors (during actuation):	34	40

Starting position for the last 2000 actuations.

Starting position width over time. Taking 2000 actuations per sample

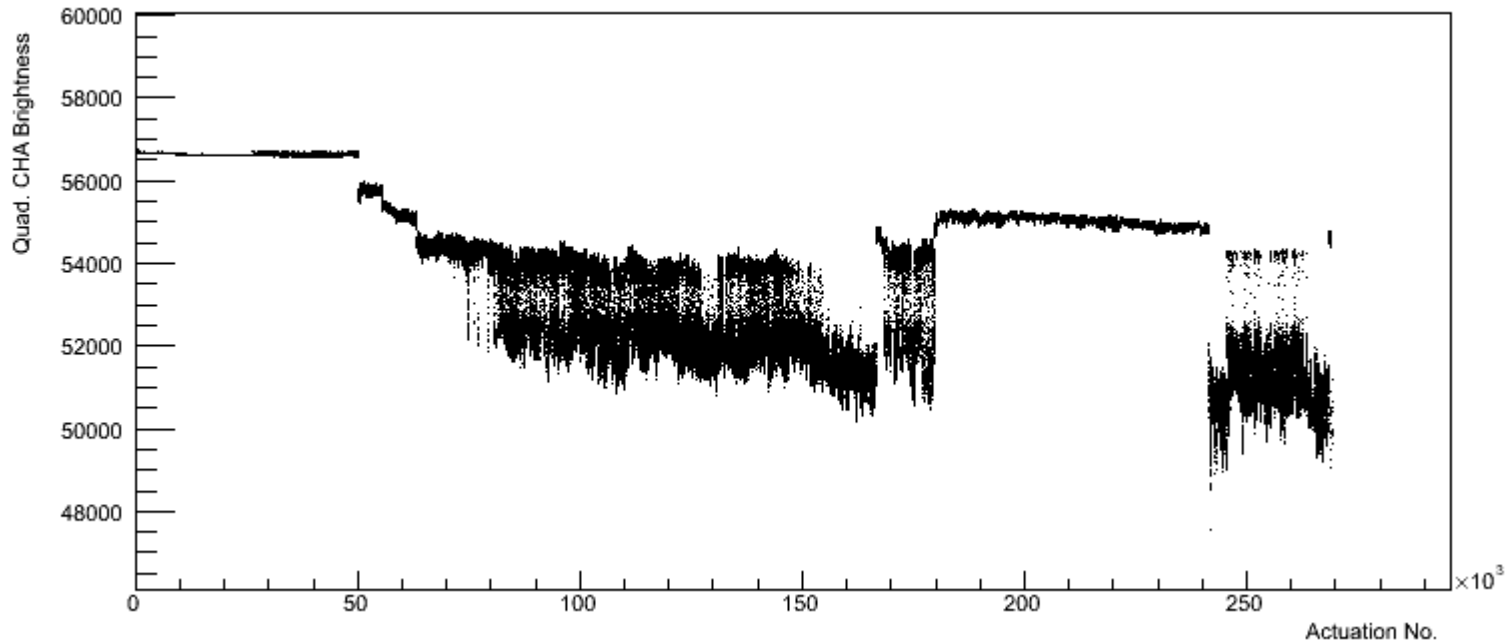Acceleration to Set Point 1 for the last 2000 actuations.

Acceleration over time for the target.

Performance

- Looks consistent with T2x Running, No signs of worry.
- T2.x has demonstrated 1M+ actuations lifetime.
  - Start position can become quite broad (1.5mm max) then lots of capture corrections. May become problematic for shifters.
- T1.4 is spare, with est. 2.5M actuations lifetime.

Laser Amplitude

T2.9(ISIS) - Quad. CHA Brightness

- Data is quite variable, not helped by intermittent running and modifications over time.
- Does appear to have a slow downward trend..