

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5440 - L2 Version 3
Chandra X-Ray Center

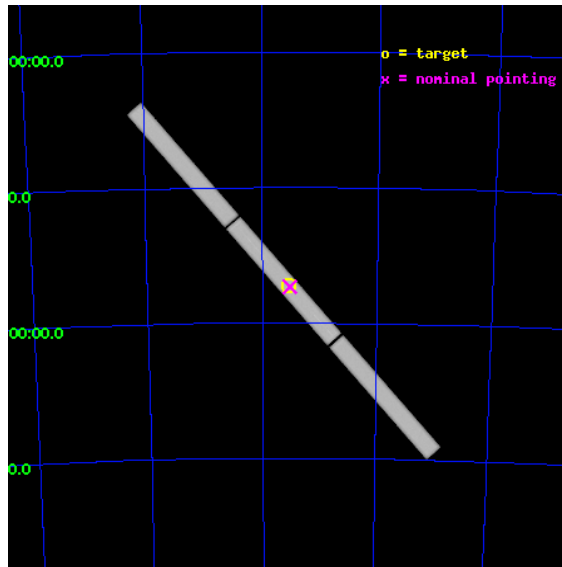
L2 Processing Date : Dec 22 2012

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1 Front

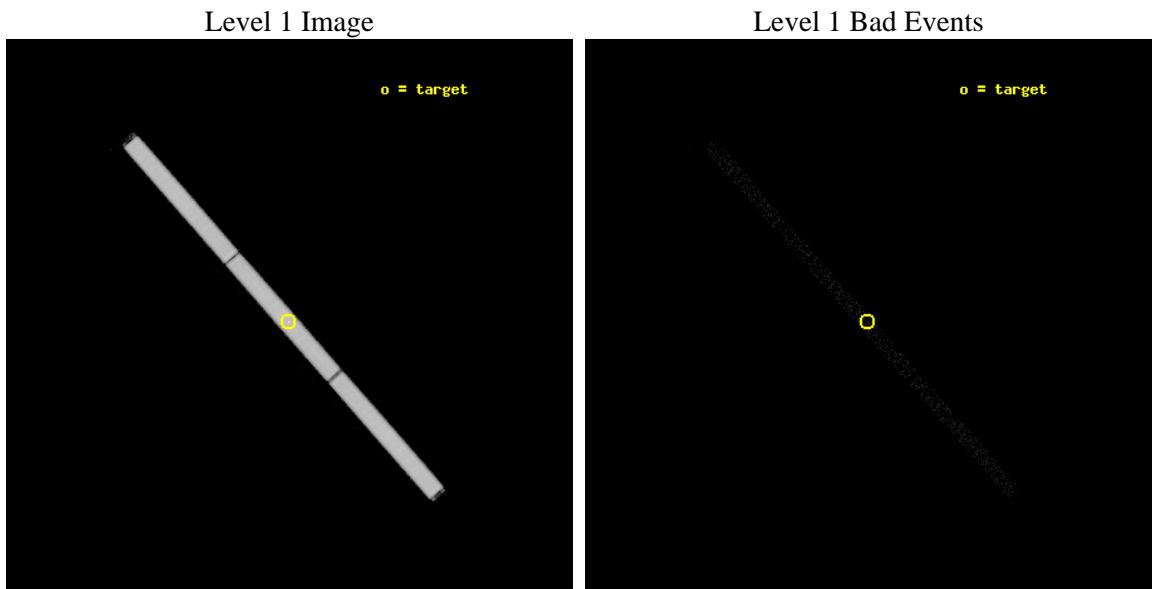
| | | |
|-----------|--|---------------------------------------|
| seq_num | 300156 | Sequence number |
| obs_id | 5440 | Observation id |
| title | Testing Accretion Scenarios at the Eddington Limit | Proposal title |
| observer | Dr. Vadim Burwitz | Principal investigator |
| object | RXJ0513.9-6951 | Source name |
| ra_targ | 78.461667 | Observer's specified target RA [deg] |
| dec_targ | -69.863056 | Observer's specified target Dec [deg] |
| ra_nom | 78.452345912957 | Nominal RA [deg] |
| dec_nom | -69.866541298042 | Nominal Dec [deg] |
| roll_nom | 228.55289121801 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 24712.751123697 | [s] |
| liveltime | 24533.124998516 | Ontime multiplied by DTCOR |
| l2events | 1445713 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 24600.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.5.1.1 | Processing system revision | ontime | 24712.751123697 | [s] |
| caldbver | 4.5.5 | | l1events | 2052520 | Number of level 1 events |
| date | 2012-12-22T14:52:09 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

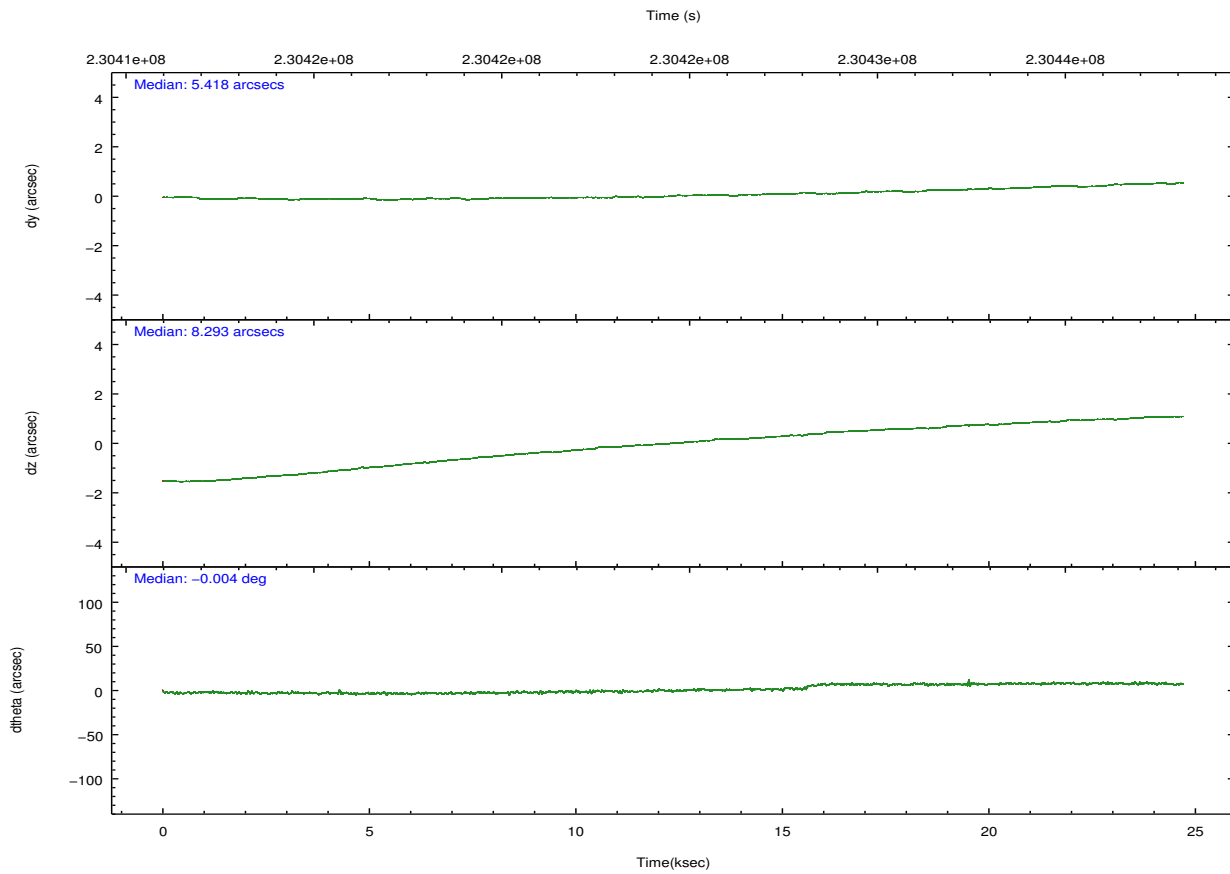
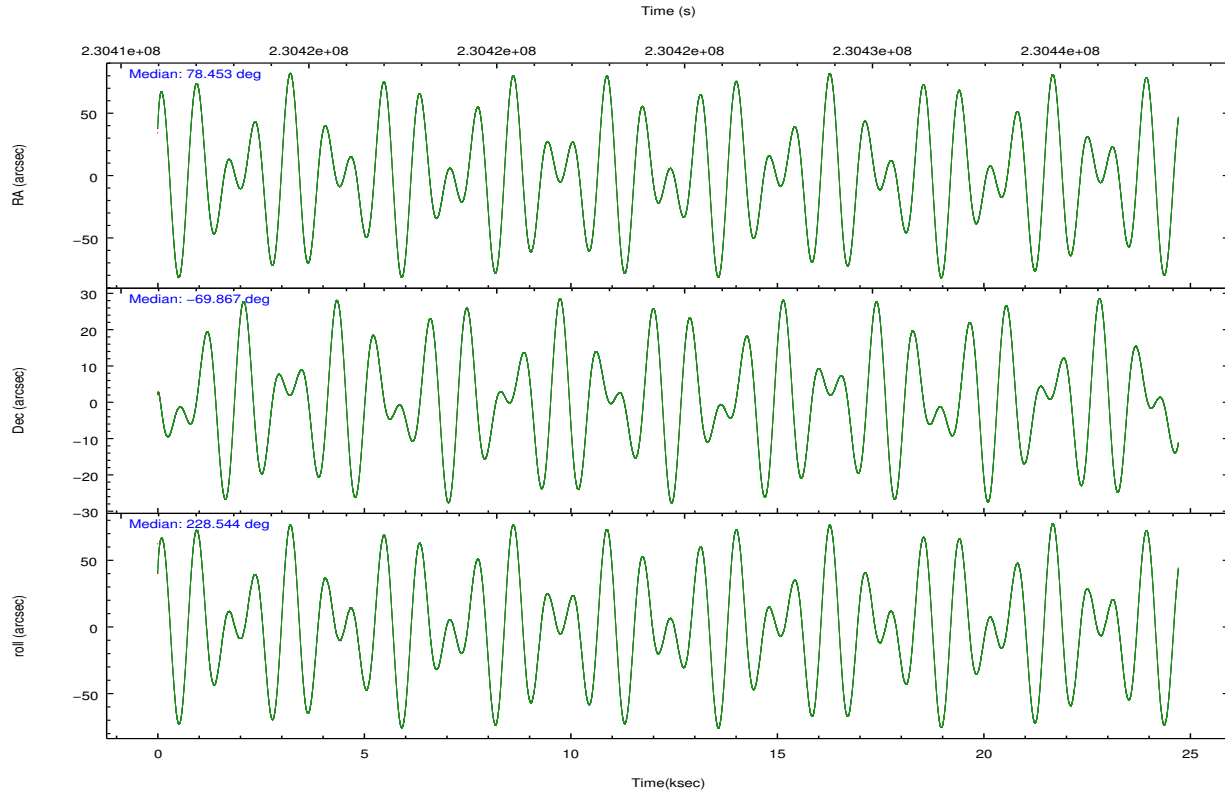
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 683564 | 680201 | 688755 |
| rejected events | 27516 | 27103 | 27994 |
| rejected % | 4% | 3% | 4% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-S | HRC-S |
| Grating | LETG | LETG |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 78.464777 | 78.45234591295713 |
| [deg] Pointing Dec | -69.838193 | -69.86654129804204 |
| [deg] Pointing Roll | 228.497225 | 228.5528912180098 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 230412318.184000 | 230411213.454 |
| Observation start date | 2005-04-20T19:24:14 | 2005-04-20T19:06:53 |
| [s] Observation end time (MET) | 230436918.184000 | 230437712.2677 |
| Observation end date | 2005-04-21T02:14:14 | 2005-04-21T02:28:32 |

| Parameter | Planned | Actual |
|------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect

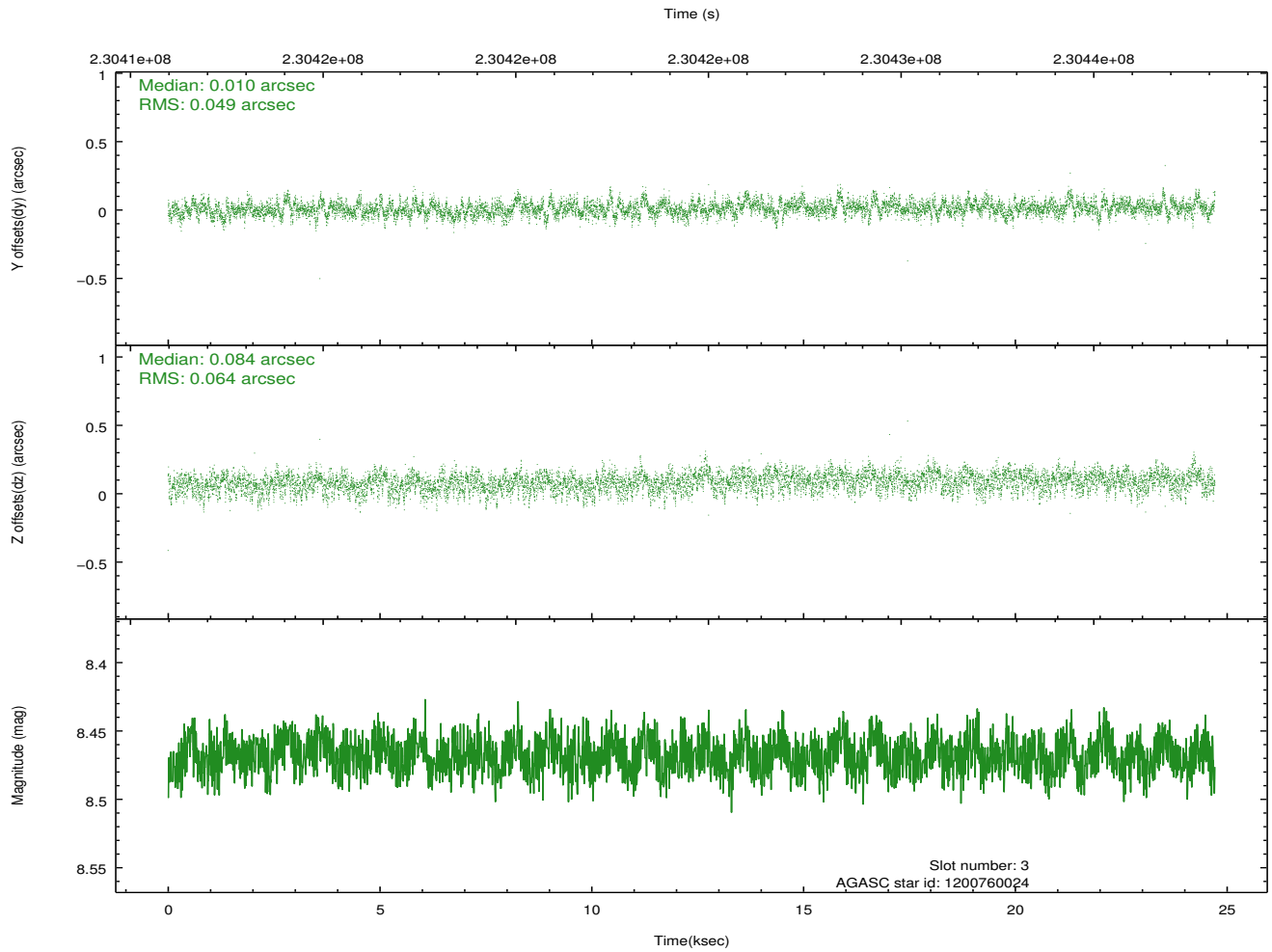
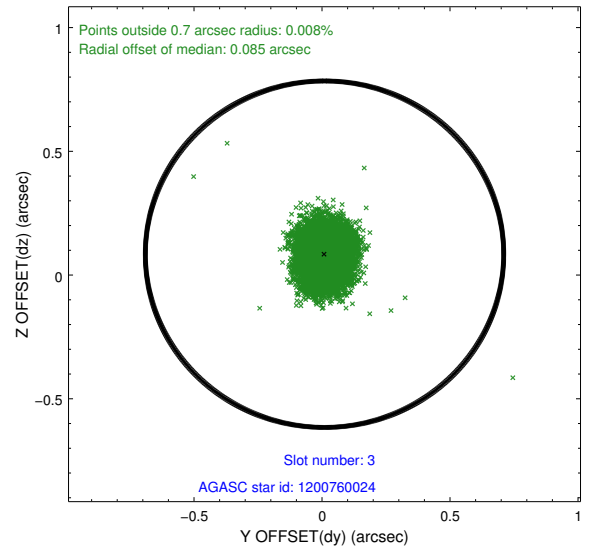
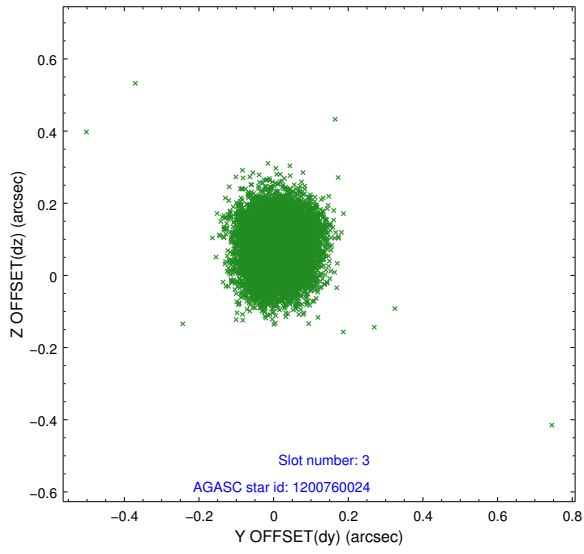


Slot Statistics

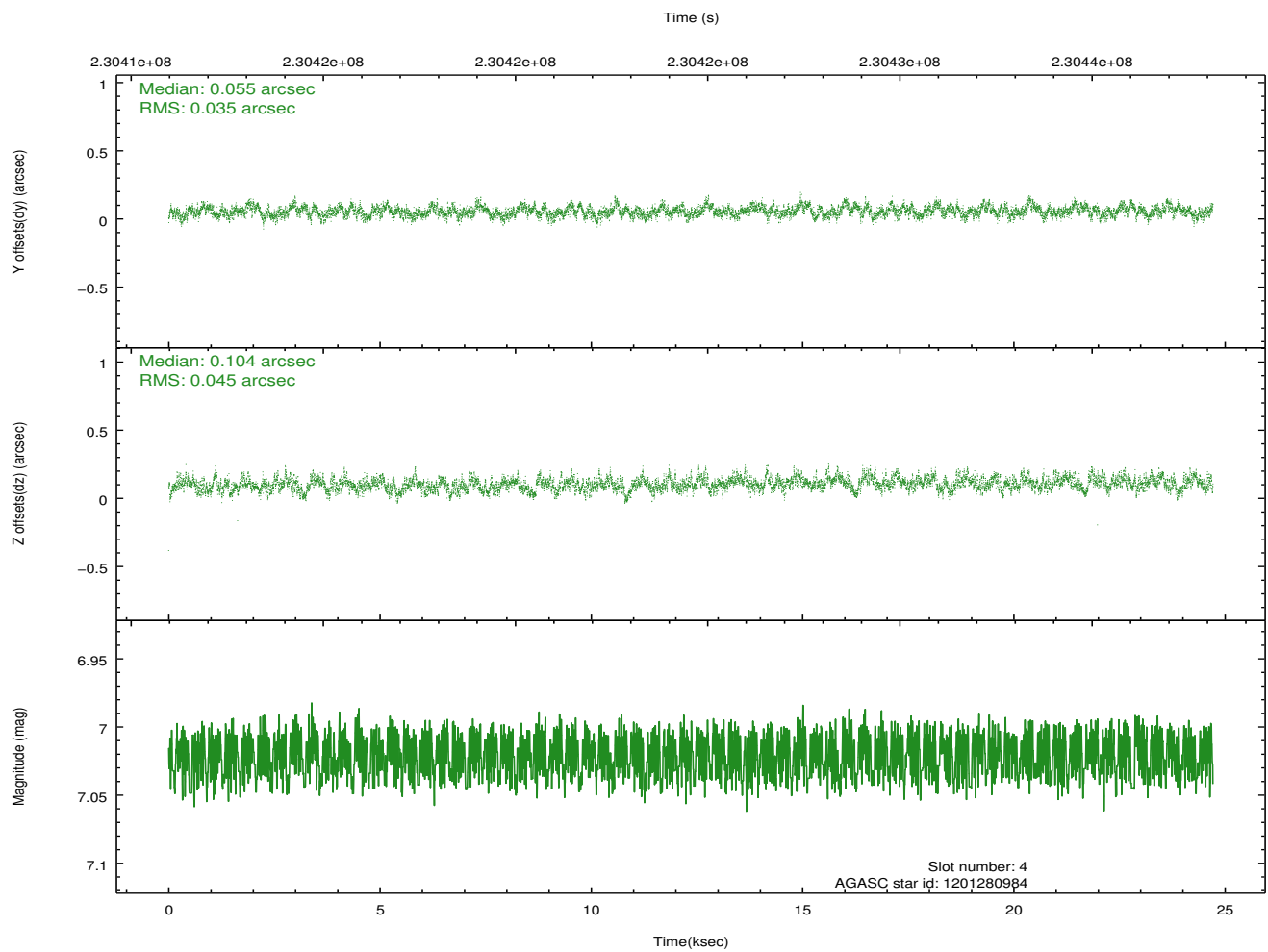
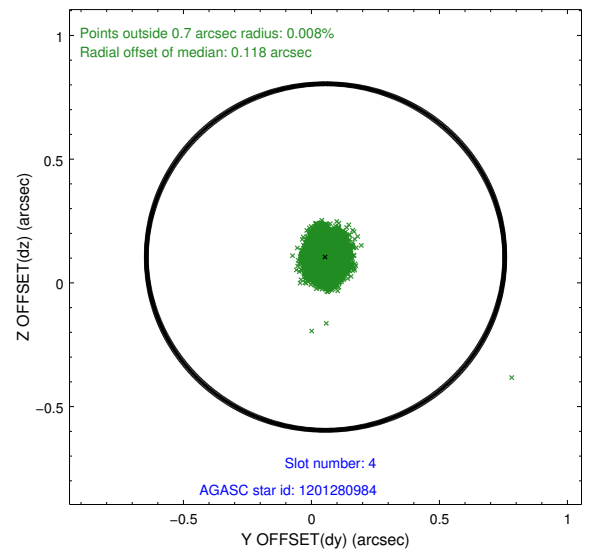
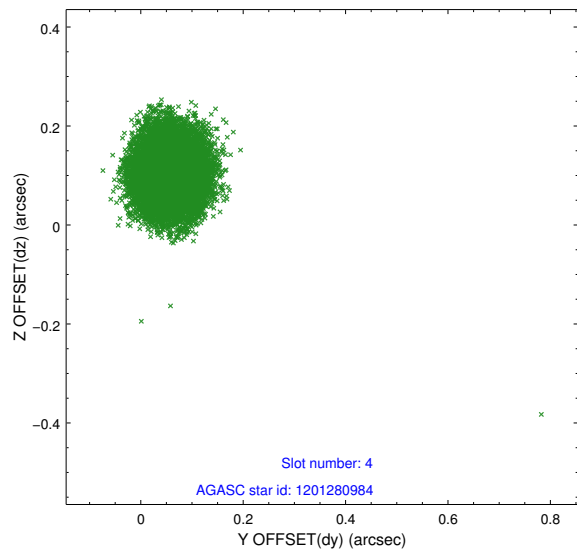
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | HRC-S-2 | 6.99 | 6029 | 0.136 | -0.160 | 0.033 | 0.049 | 0.000000 | 0.000000 | 1240.08 | -449.45 |
| 1 | FID | HRC-S-3 | 7.00 | 6027 | 0.135 | -0.098 | 0.011 | 0.021 | 0.000000 | 0.000000 | -1162.12 | 572.69 |
| 2 | FID | HRC-S-4 | 6.94 | 6028 | 0.131 | -0.036 | 0.035 | 0.053 | 0.000000 | 0.000000 | 1238.45 | 575.49 |
| 3 | GUIDE | 1200760024 | 8.47 | 12053 | 0.010 | 0.084 | 0.085 | 0.139 | 77.625244 | -69.320410 | -682.94 | -2029.72 |
| 4 | GUIDE | 1201280984 | 7.02 | 12056 | 0.055 | 0.104 | 0.061 | 0.097 | 77.867422 | -69.546090 | -286.56 | -1257.43 |
| 5 | GUIDE | 1201407648 | 9.15 | 12054 | 0.058 | 0.014 | 0.098 | 0.160 | 78.636737 | -70.585025 | 1877.30 | 1935.94 |
| 6 | GUIDE | 1201411776 | 8.86 | 12030 | 0.056 | -0.057 | 0.099 | 0.155 | 79.010603 | -70.456328 | 1233.03 | 1968.93 |
| 7 | GUIDE | 1201409432 | 9.03 | 12042 | -0.173 | -0.143 | 0.095 | 0.154 | 79.317334 | -70.259796 | 454.95 | 1786.87 |

2.4 Star Slots

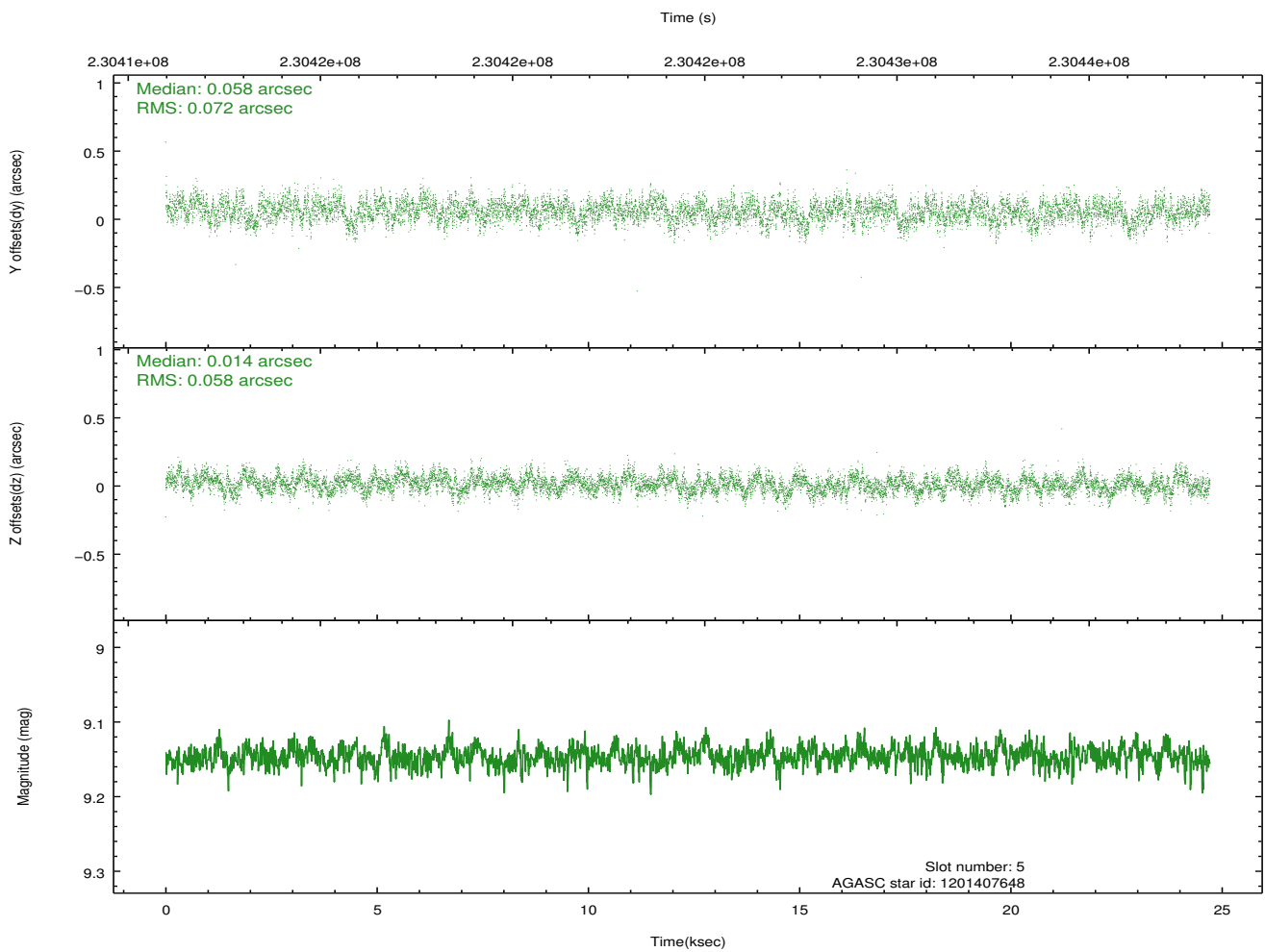
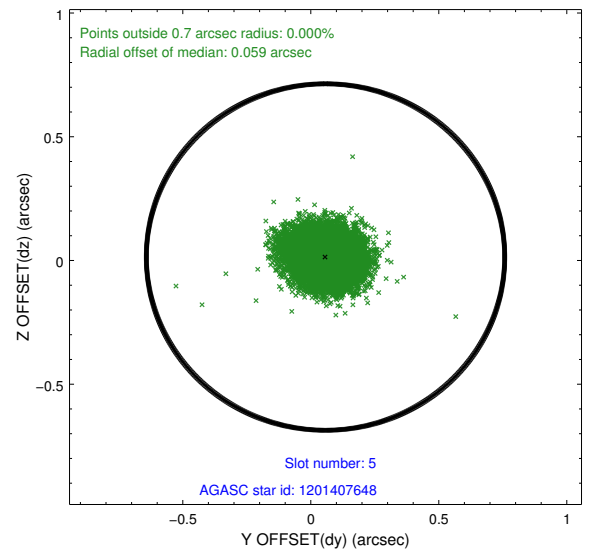
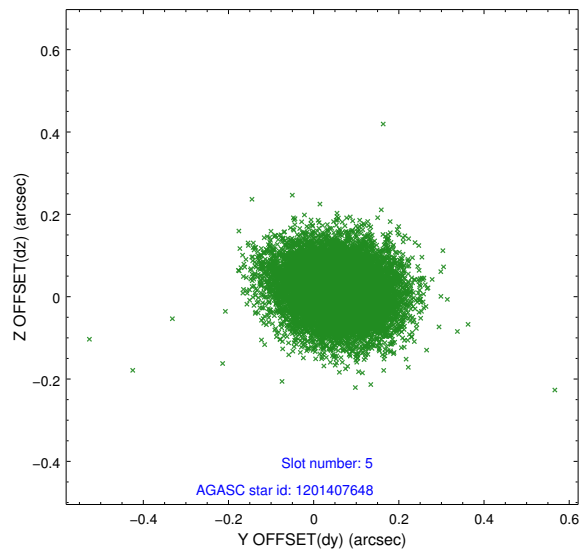
2.4.1 Slot 3



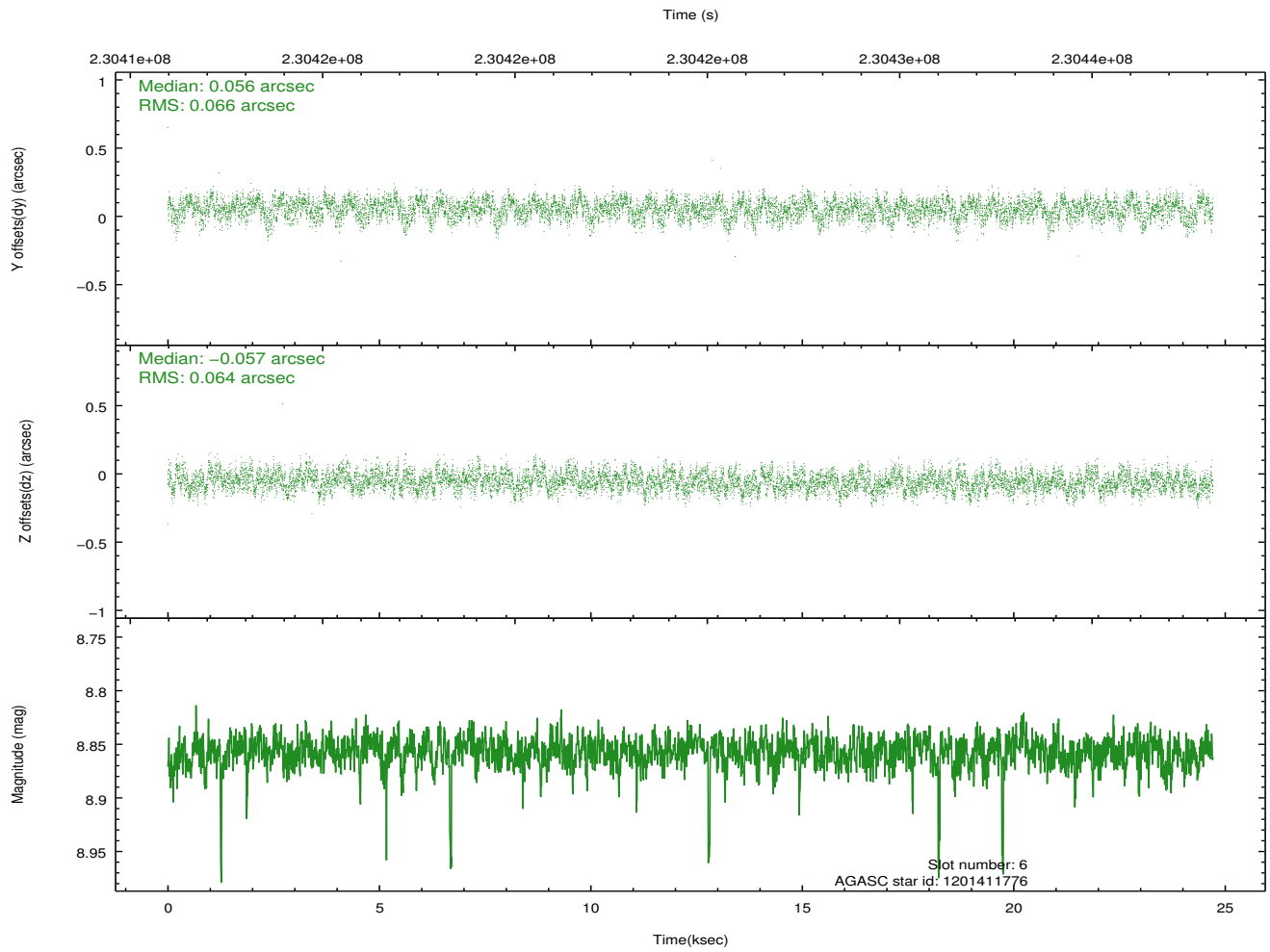
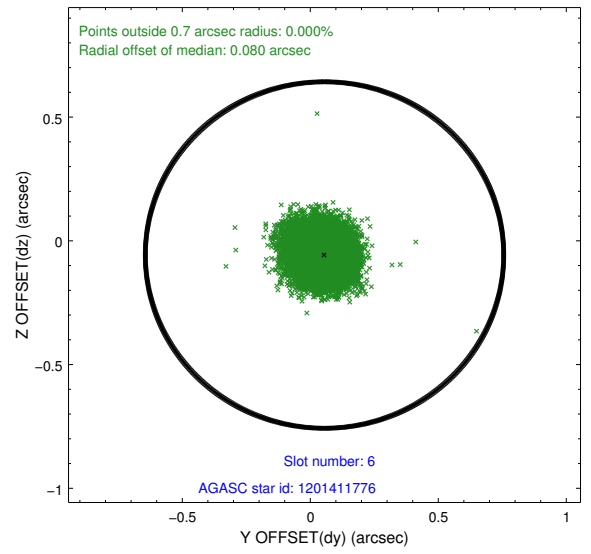
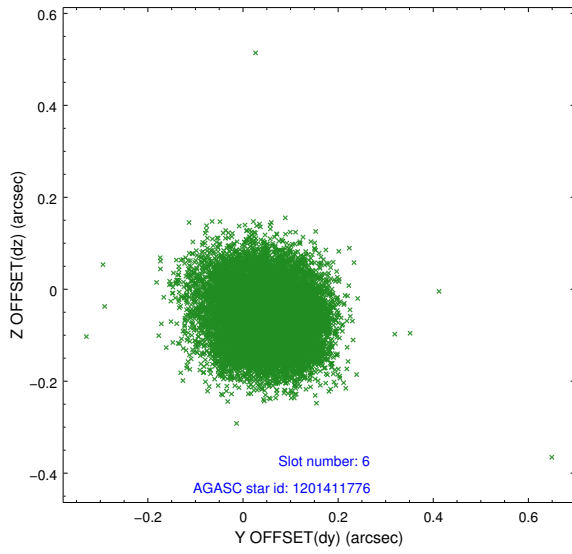
2.4.2 Slot 4



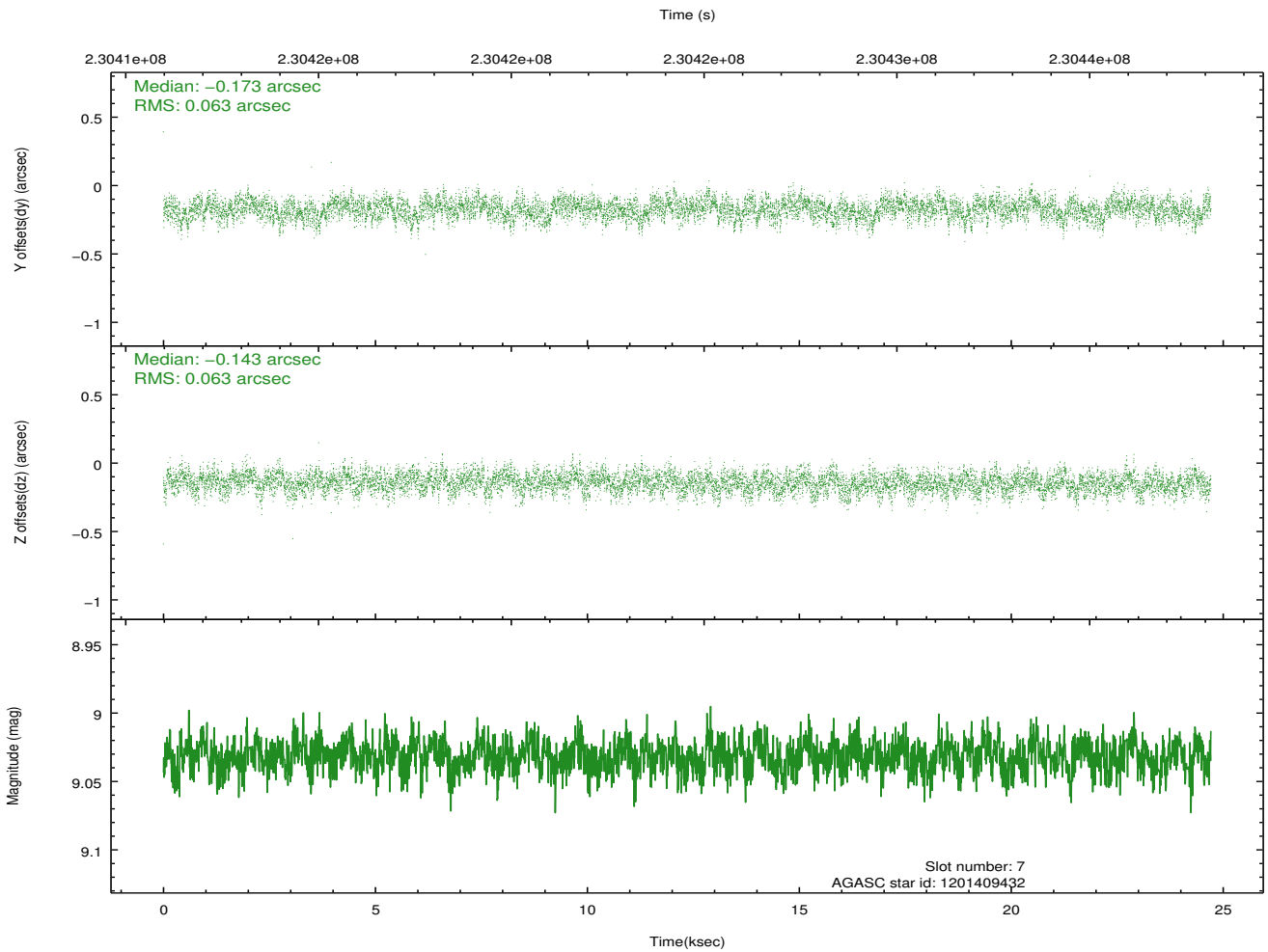
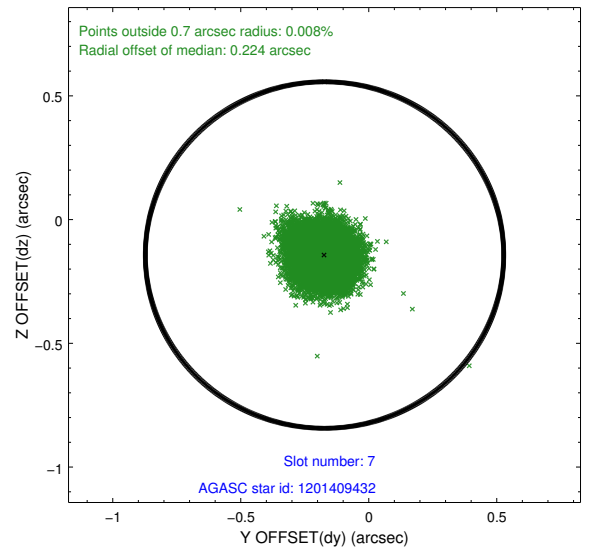
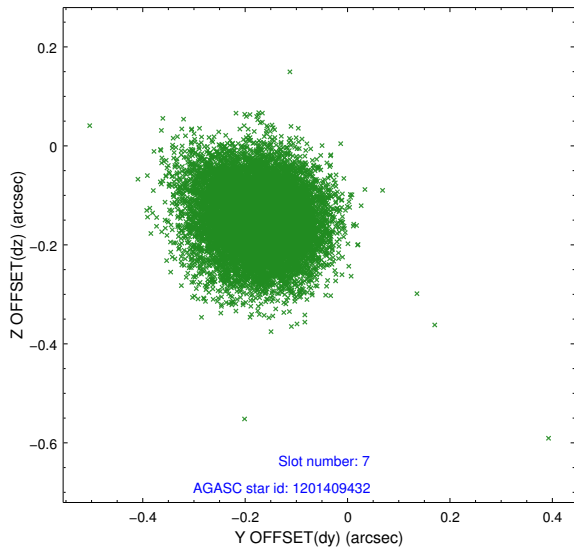
2.4.3 Slot 5



2.4.4 Slot 6

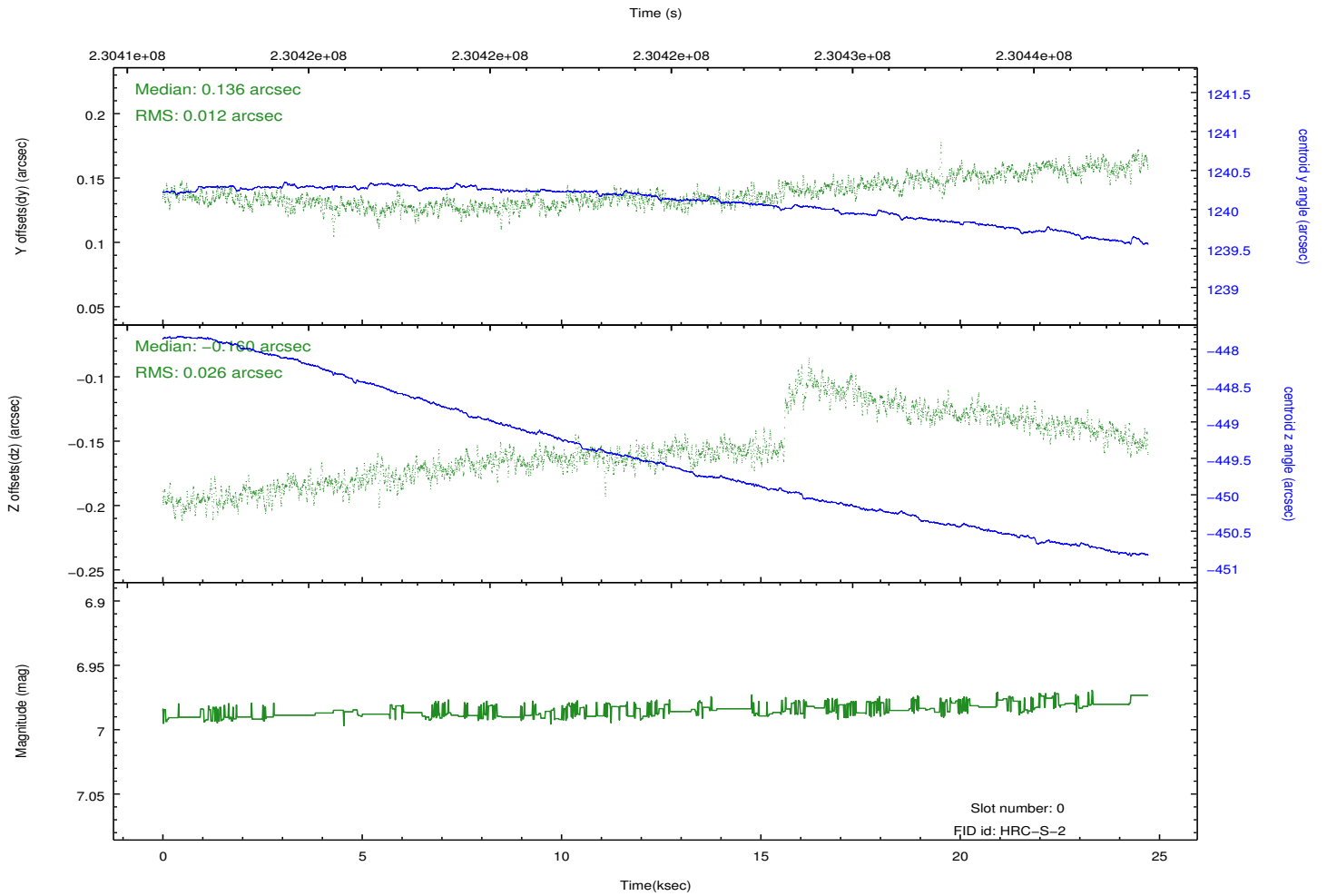
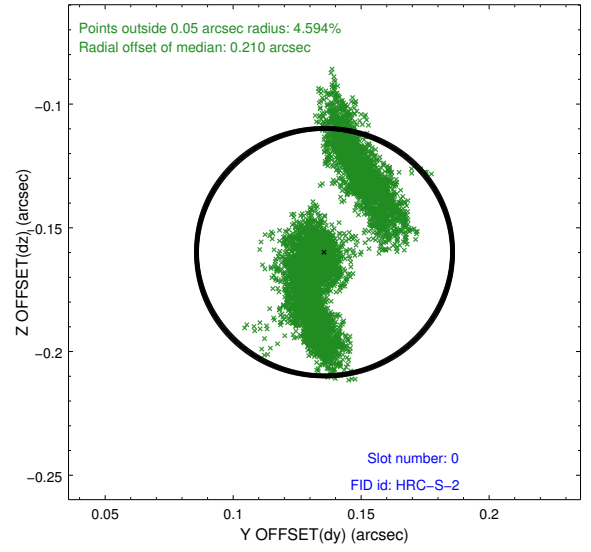
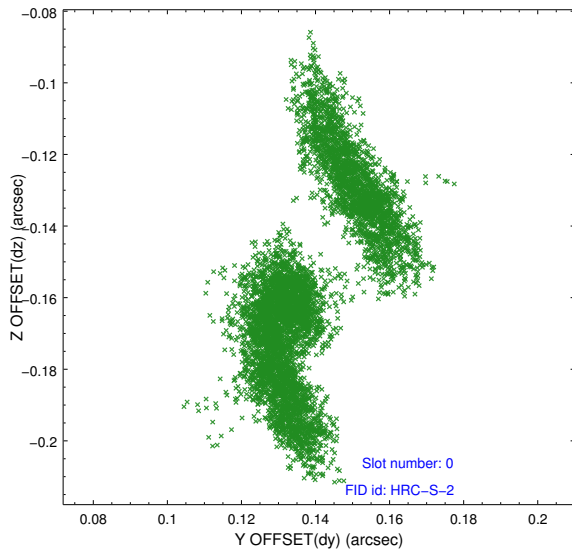


2.4.5 Slot 7

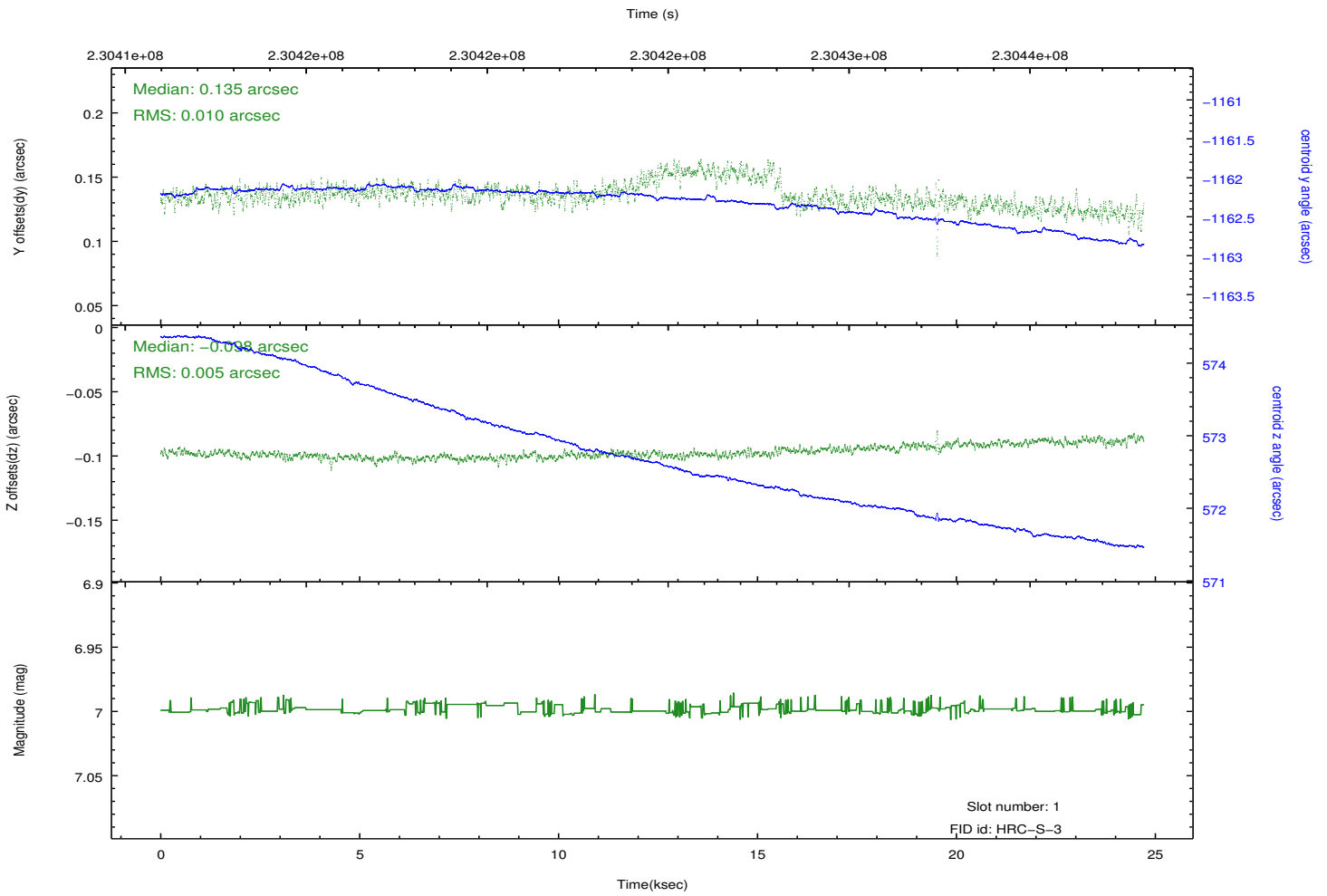
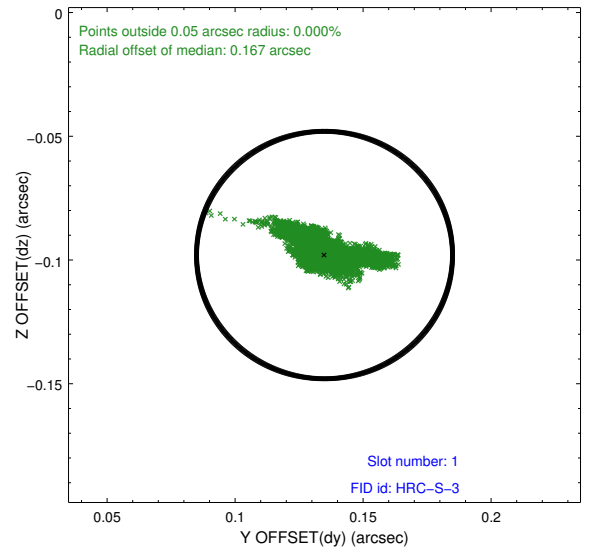
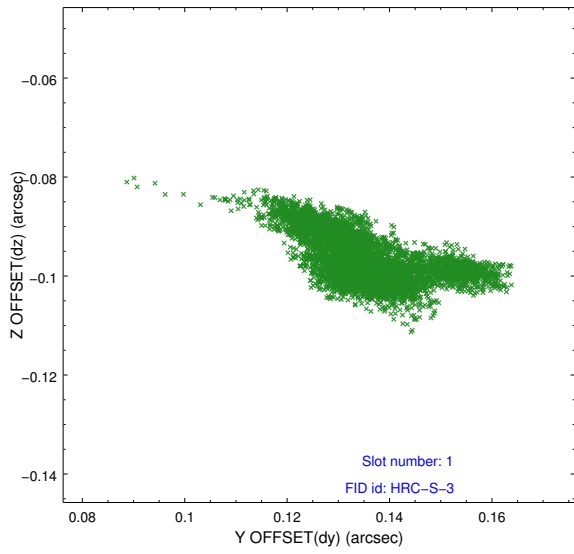


2.5 FID Slots

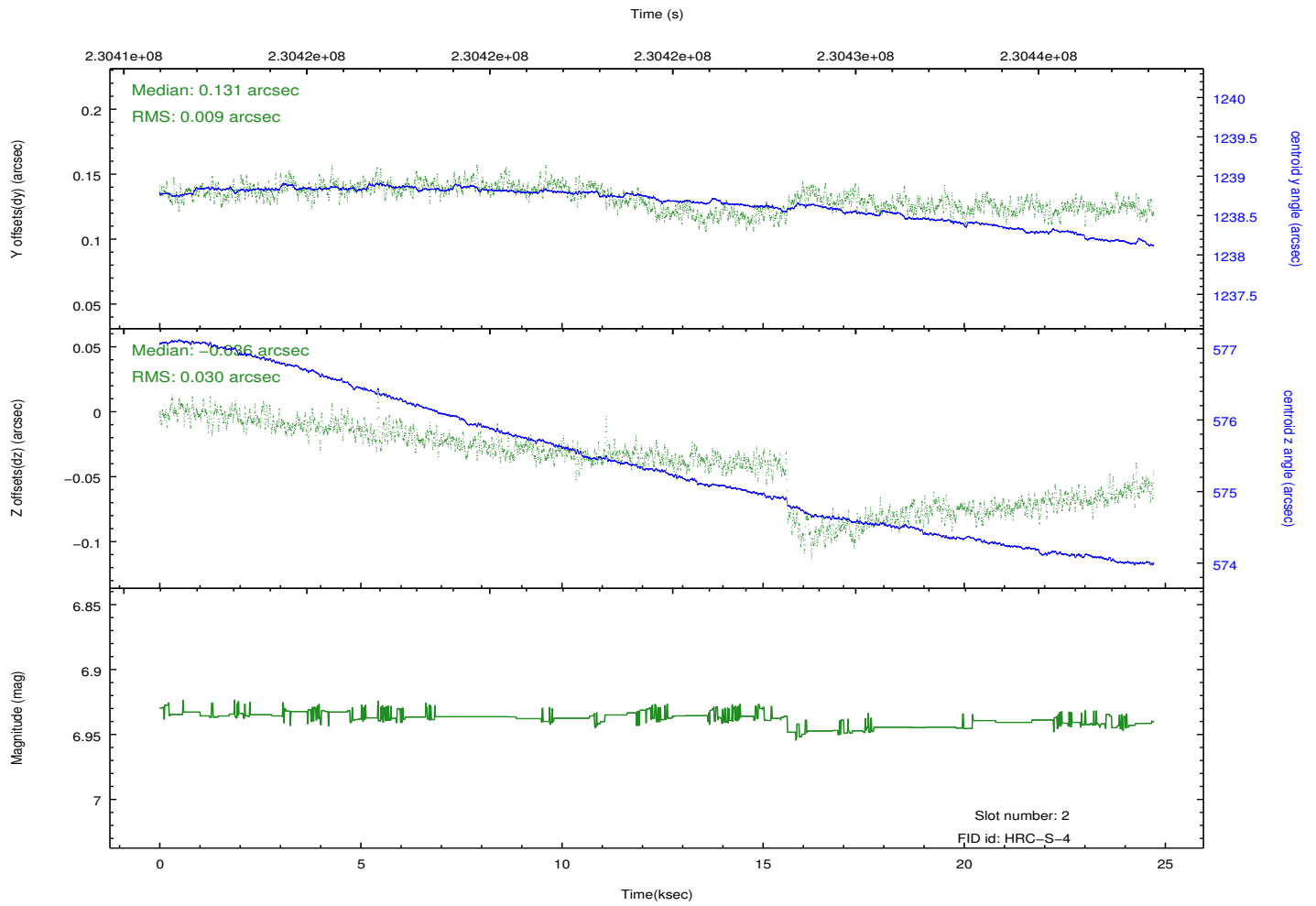
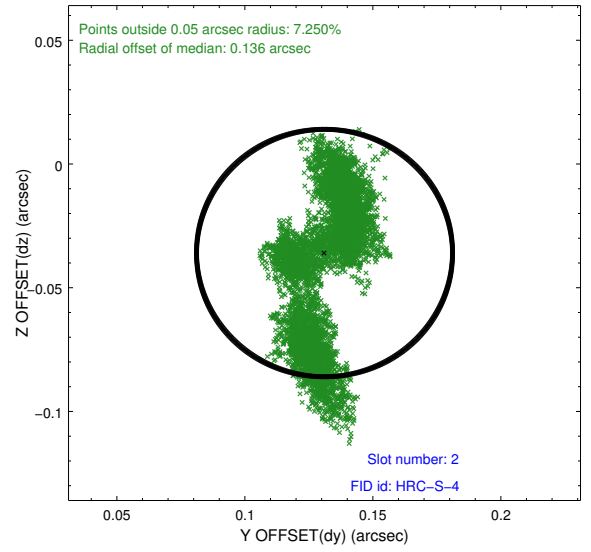
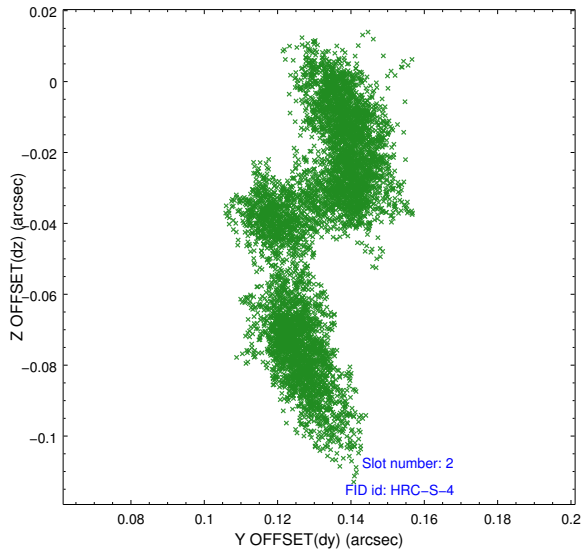
2.5.1 Slot 0



2.5.2 Slot 1

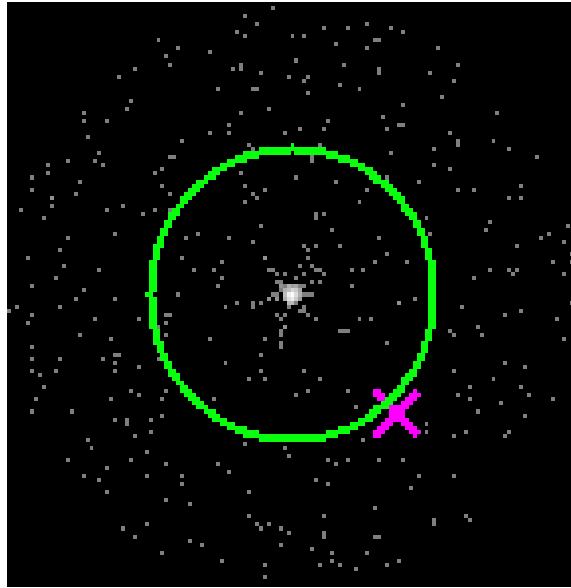


2.5.3 Slot 2

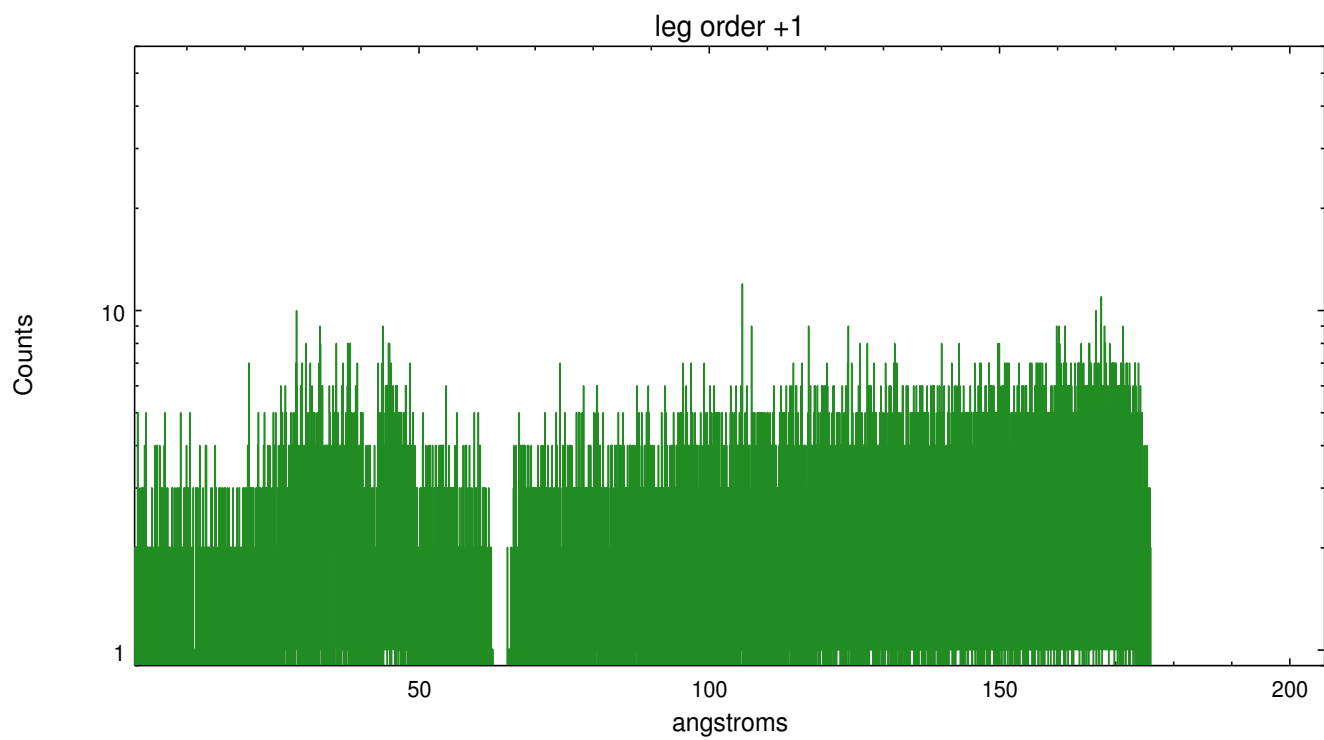
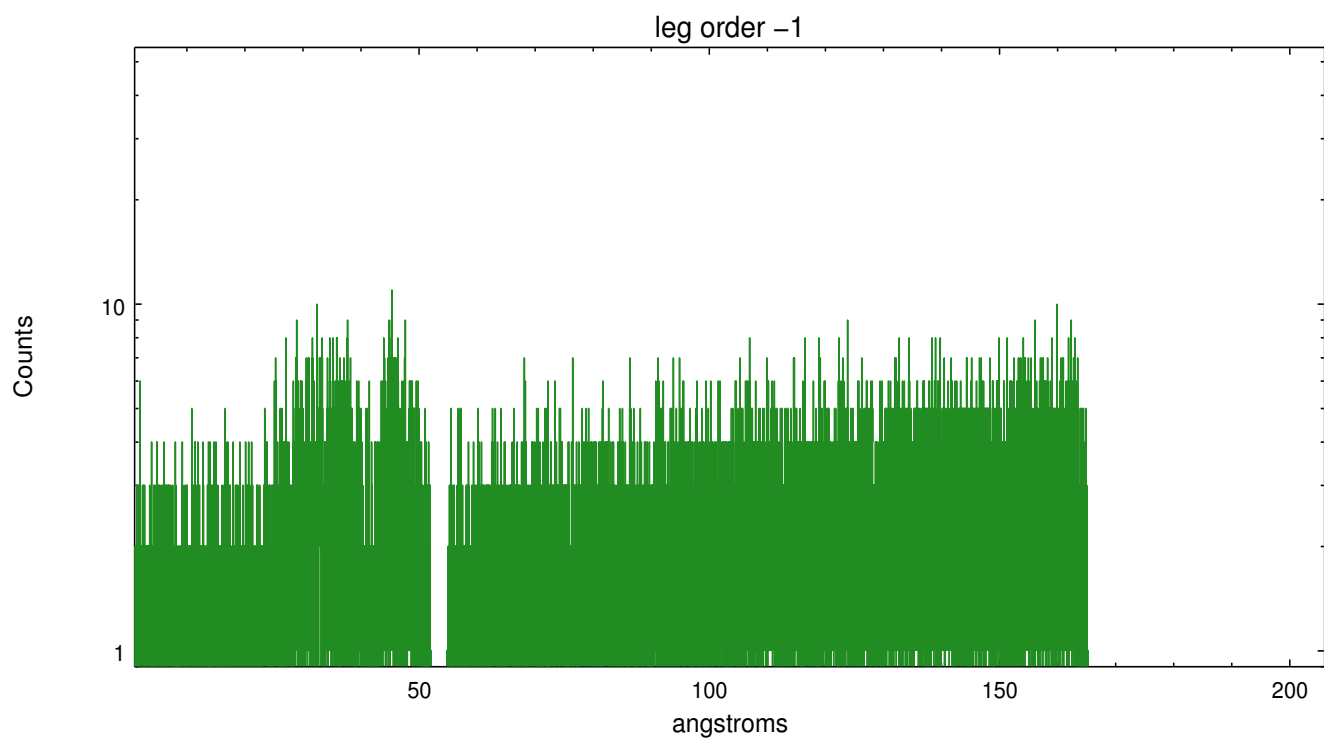


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.01.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 24.71275 |

A.2 Comments