

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8143 - L2 Version 2
Chandra X-Ray Center

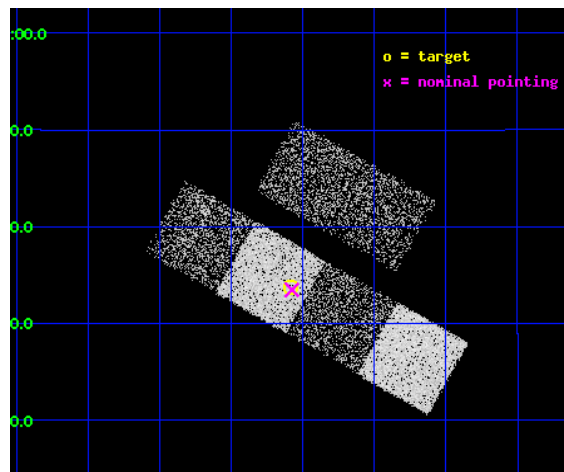
L2 Processing Date : Apr 27 2012

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1 Front

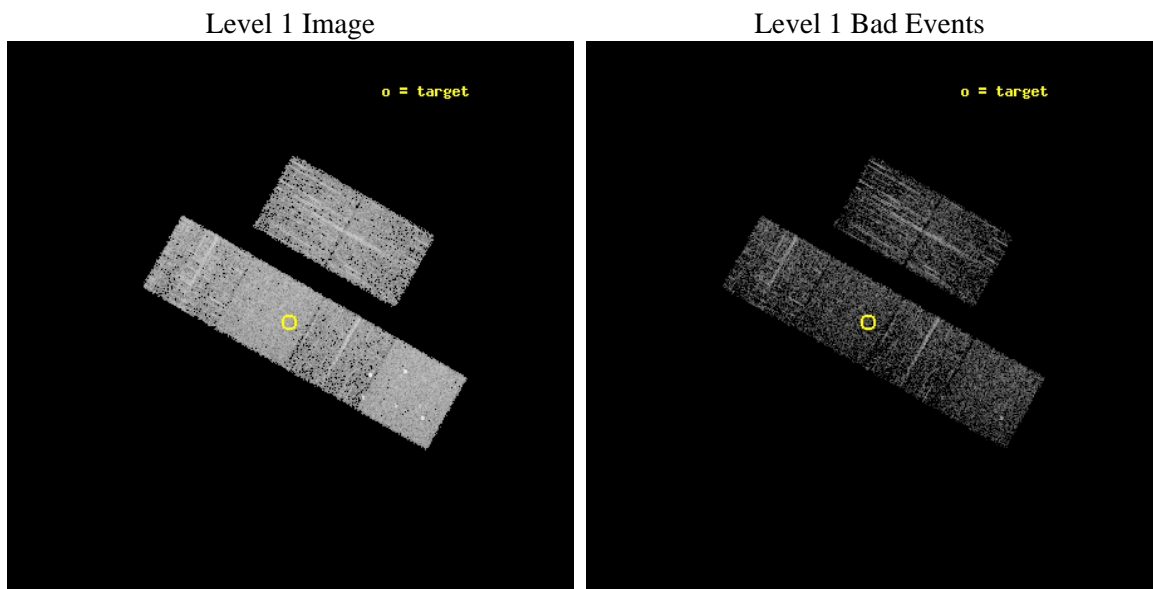
| | | |
|----------|--|---|
| seq_num | 900684 | Sequence number |
| obs_id | 8143 | Observation id |
| title | ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects | |
| observer | Dr. Stephen Murray | Principal investigator |
| object | AX J185905+0333 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 284.772083 | Observer's specified target RA [deg] |
| dec_targ | 3.562 | Observer's specified target Dec [deg] |
| ra_nom | 284.76940866588 | Nominal RA [deg] |
| dec_nom | 3.5578411862244 | Nominal Dec [deg] |
| roll_nom | 209.46552213793 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1779.1999934316 | Sum of GTIs [s] |
| livetime | 1756.6706918091 | Livetime [s] |
| ontime2 | 1779.1999934316 | Sum of GTIs [s] |
| ontime3 | 1779.1999934316 | Sum of GTIs [s] |
| ontime5 | 1779.1999934316 | Sum of GTIs [s] |
| ontime6 | 1779.1999934316 | Sum of GTIs [s] |
| ontime7 | 1779.1999934316 | Sum of GTIs [s] |
| ontime8 | 1779.1999934316 | Sum of GTIs [s] |
| l2events | 28186 | Number of level 2 events |



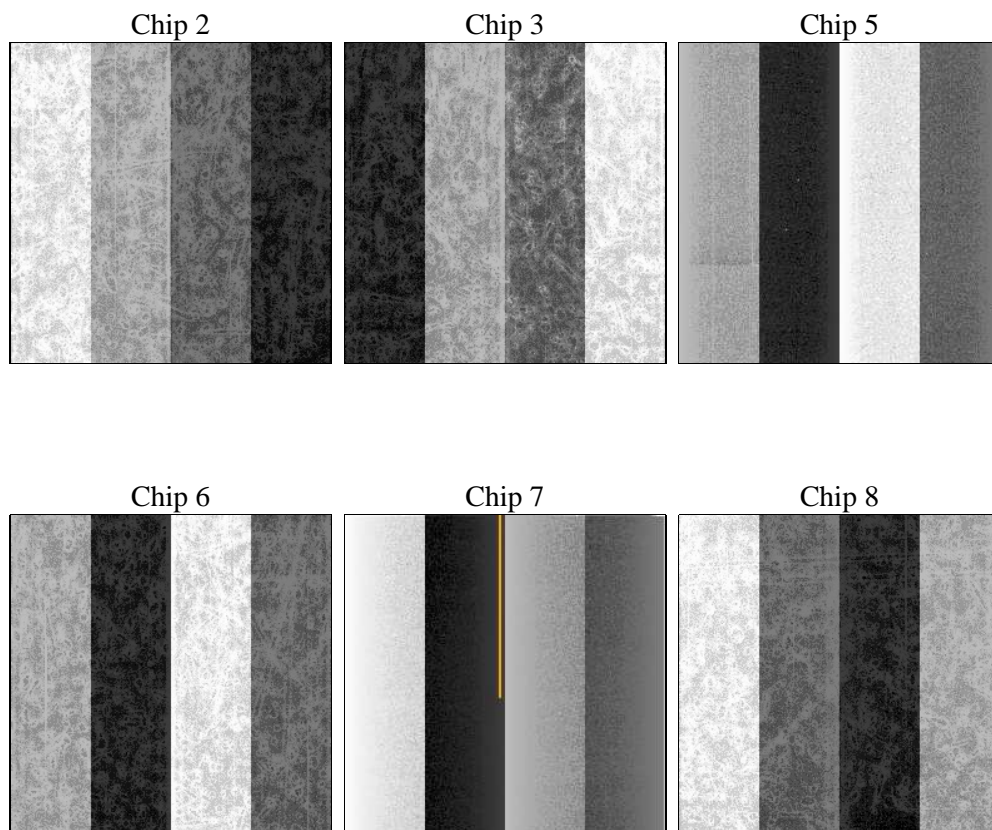
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 1600.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 1779.1999934316 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 1779.1999934316 | Sum of GTIs [s] |
| date | 2012-04-28T01:58:06 | Date and time of file creation | ontime3 | 1779.1999934316 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 1779.1999934316 | Sum of GTIs [s] |
| | | | ontime6 | 1779.1999934316 | Sum of GTIs [s] |
| | | | ontime7 | 1779.1999934316 | Sum of GTIs [s] |
| | | | ontime8 | 1779.1999934316 | Sum of GTIs [s] |
| | | | l1events | 133137 | Number of level 1 events |

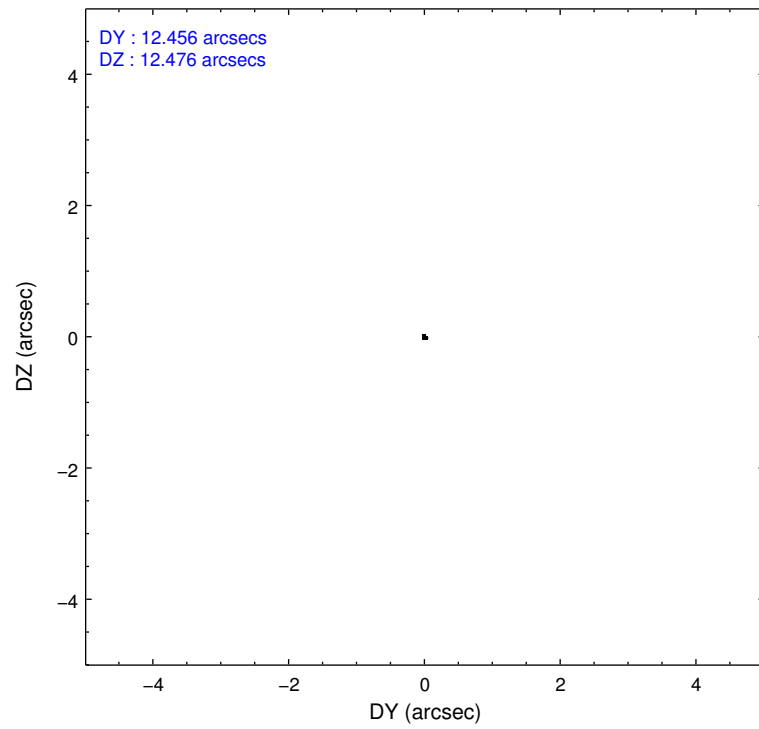
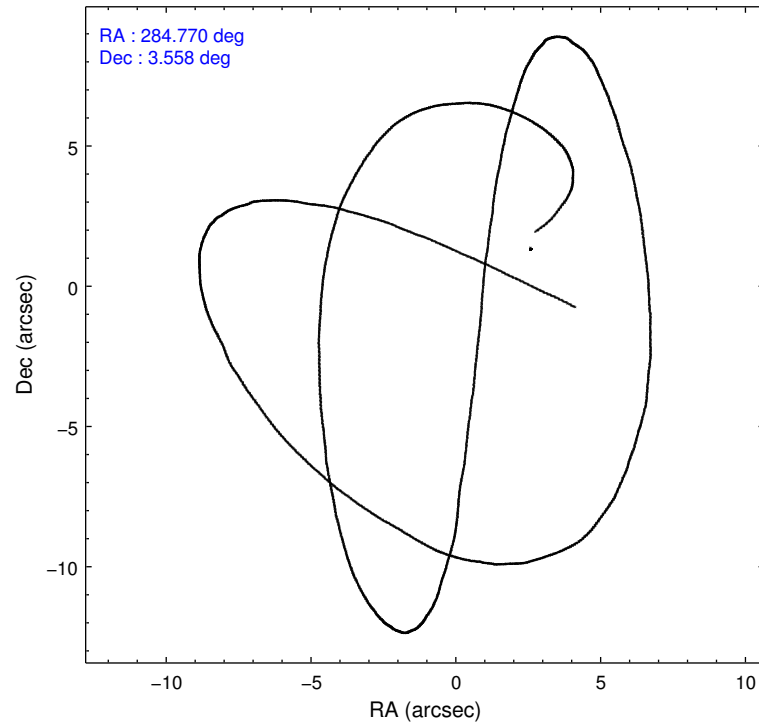
2.1.4 Events

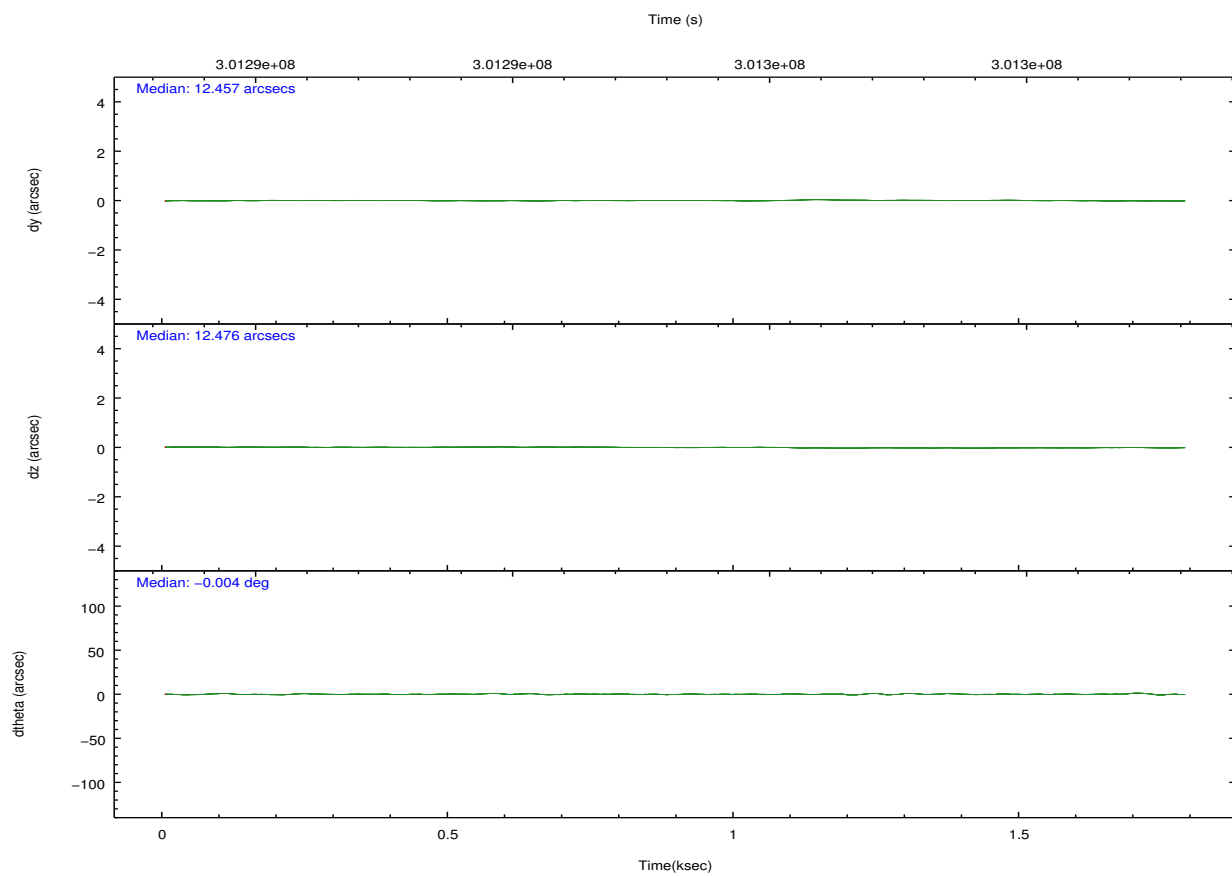
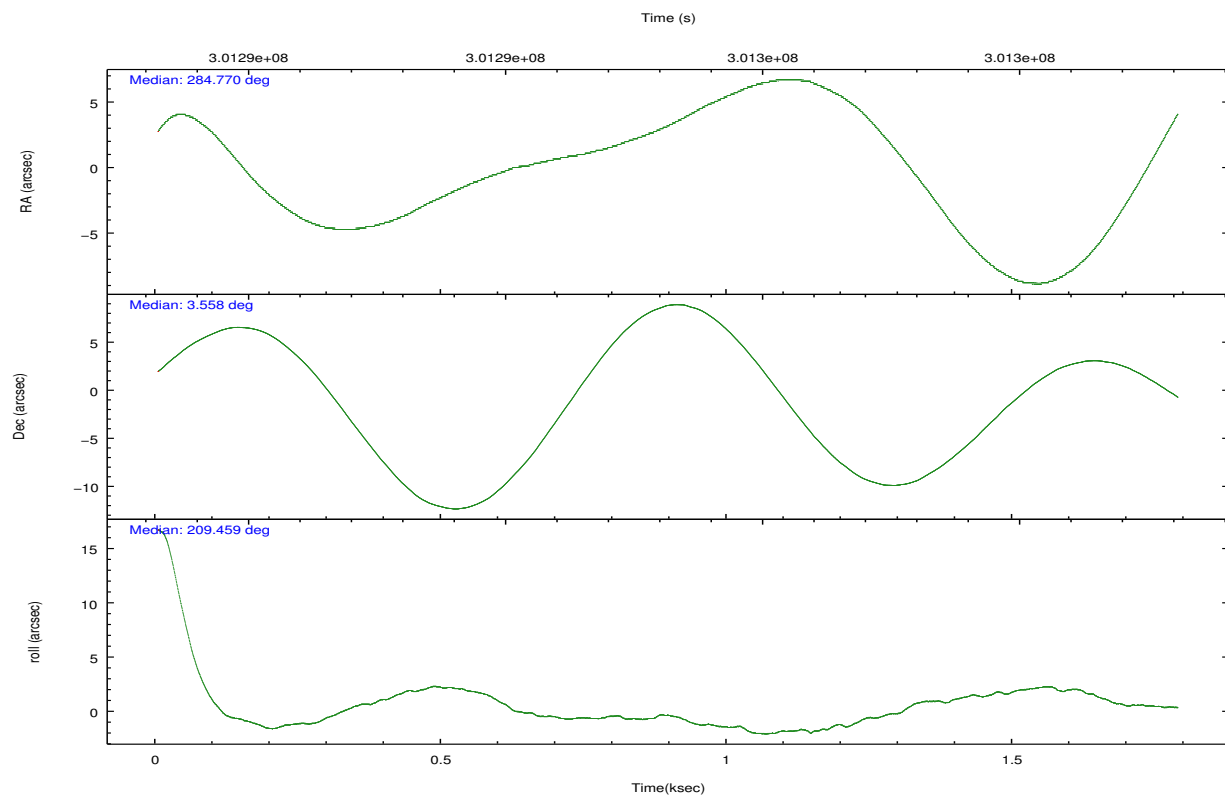
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 17659 | 19147 | 28507 | 18098 | 25277 | 24449 | grade 0 events | 874 | 956 | 1448 | 1390 | 906 | 1616 |
| rejected events | 15748 | 17107 | 15963 | 15541 | 15384 | 19230 | | 4% | 4% | 5% | 7% | 3% | 6% |
| rejected % | 89% | 89% | 55% | 85% | 60% | 78% | grade 1 events | 12 | 17 | 70 | 17 | 37 | 17 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 430 | 421 | 3919 | 468 | 2151 | 1272 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 5% |
| | | | | | | | grade 3 events | 190 | 245 | 447 | 224 | 893 | 556 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 190 | 201 | 423 | 187 | 863 | 559 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 5 events | 691 | 832 | 1952 | 832 | 2310 | 1134 |
| | | | | | | | | 3% | 4% | 6% | 4% | 9% | 4% |
| | | | | | | | grade 6 events | 354 | 356 | 6989 | 433 | 5658 | 1494 |
| | | | | | | | | 2% | 1% | 24% | 2% | 22% | 6% |
| | | | | | | | grade 7 events | 14918 | 16119 | 13259 | 14547 | 12459 | 17801 |
| | | | | | | | | 84% | 84% | 46% | 80% | 49% | 72% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 284.783335 | 284.7694086658754 | CCD I2 on | O2 | Y |
| [deg] Pointing Dec | 3.581490 | 3.55784118622436 | CCD I3 on | O3 | Y |
| [deg] Pointing Roll | 209.307917 | 209.4655221379273 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | O1 | Y |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | O5 | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.145094680475 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.01257209746719923 | CCD S4 on | O4 | Y |
| [s] Observation start time (MET) | 301294111.184000 | 301292986.92921 | CCD S5 on | N | N |
| Observation start date | 2007-07-20T04:47:26 | 2007-07-20T04:29:46 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 301295711.184000 | 301296615.42939 | On-chip summing requested | N | N |
| Observation end date | 2007-07-20T05:14:06 | 2007-07-20T05:30:15 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.2 |

2.3 Aspect



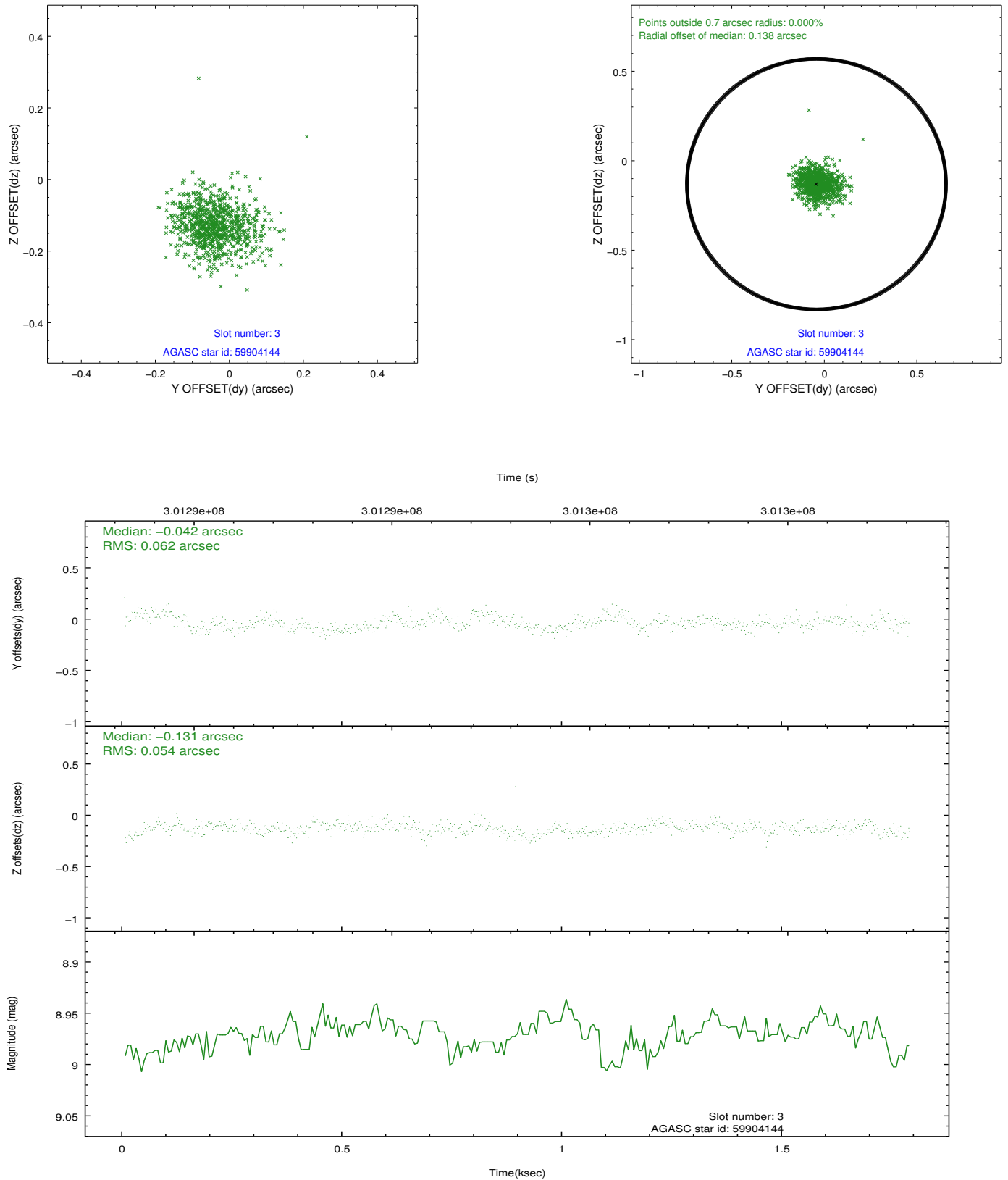


Slot Statistics

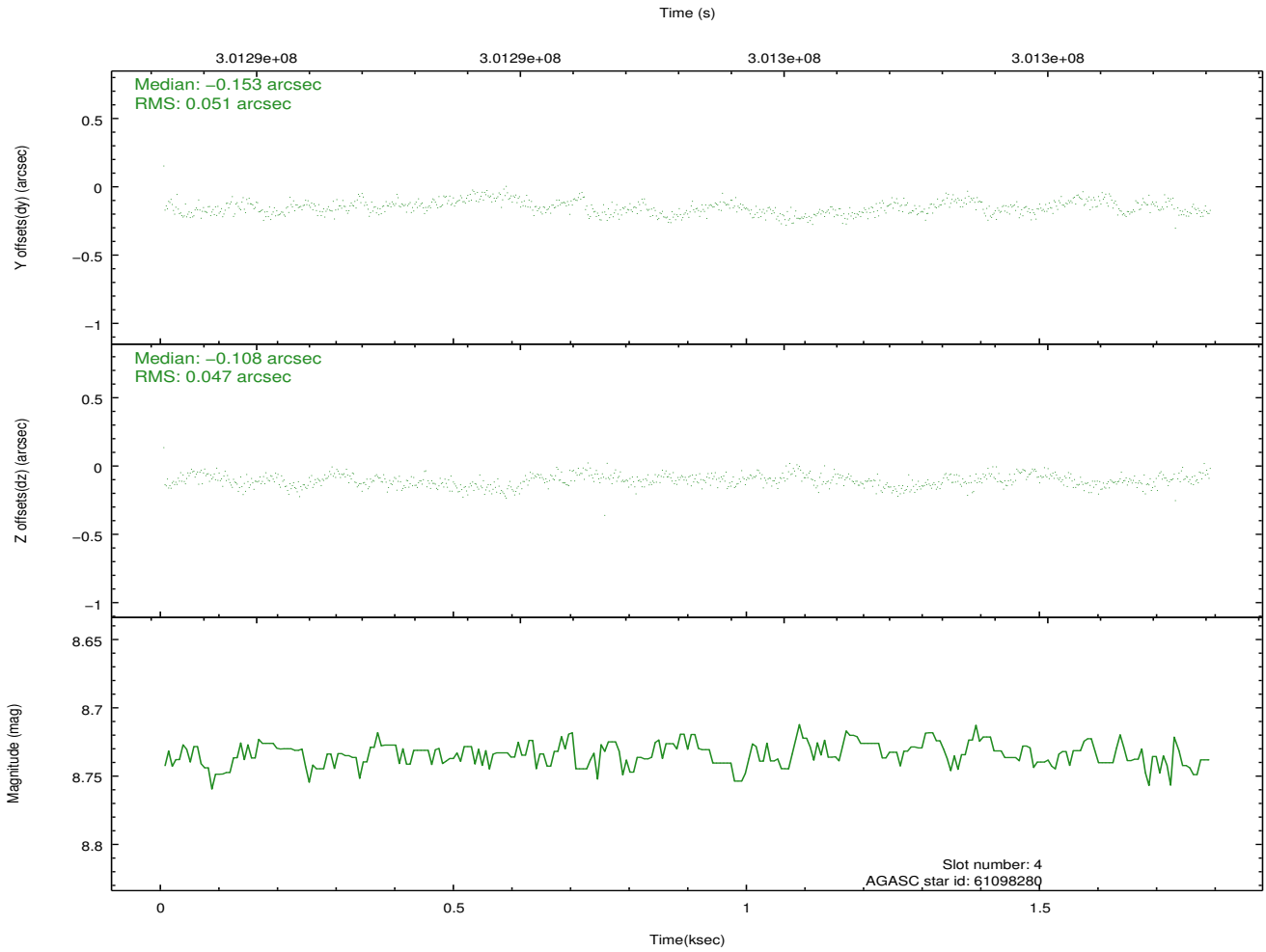
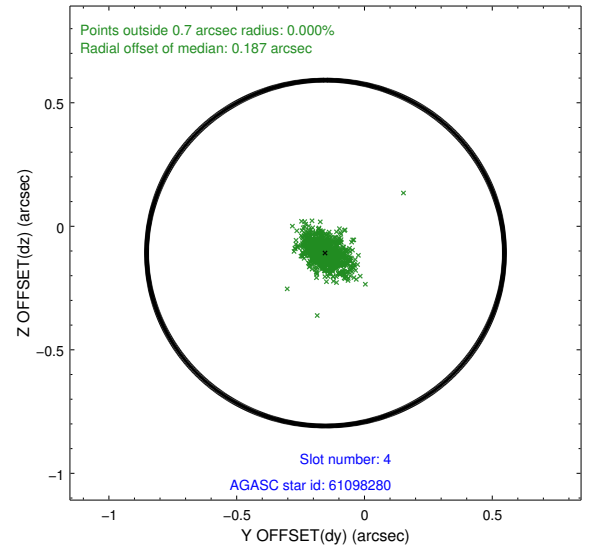
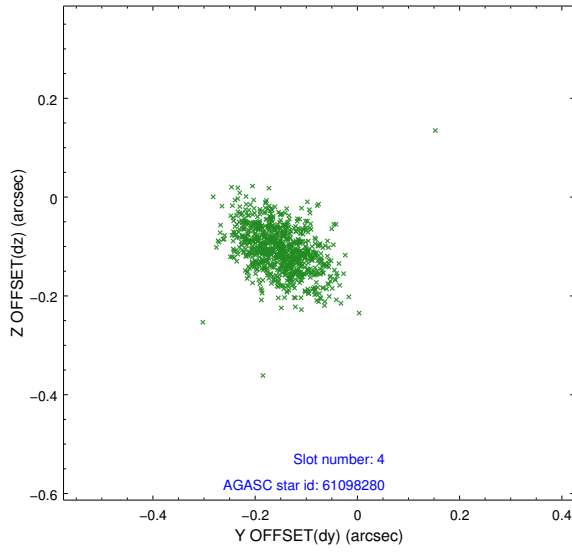
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|----------|------|-------|--------|--------|-------|-------|------------|----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 436 | -0.021 | -0.043 | 0.006 | 0.010 | 0.000000 | 0.000000 | -765.38 | -1733.72 |
| 1 | FID | ACIS-S-4 | 7.19 | 436 | 0.132 | 0.022 | 0.005 | 0.012 | 0.000000 | 0.000000 | 2146.37 | 171.00 |
| 2 | FID | ACIS-S-5 | 7.23 | 436 | -0.142 | 0.030 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1813.62 | 168.89 |
| 3 | GUIDE | 59904144 | 8.97 | 872 | -0.042 | -0.131 | 0.086 | 0.141 | 283.973853 | 3.763262 | 2214.17 | -1993.97 |
| 4 | GUIDE | 61098280 | 8.73 | 871 | -0.153 | -0.108 | 0.071 | 0.119 | 285.428982 | 3.389170 | -1683.13 | 1737.44 |
| 5 | GUIDE | 61100224 | 8.86 | 871 | 0.036 | 0.035 | 0.072 | 0.121 | 285.024823 | 3.318294 | -295.64 | 1254.13 |
| 6 | GUIDE | 61607824 | 8.59 | 872 | 0.038 | 0.155 | 0.067 | 0.111 | 285.051841 | 3.978815 | -1541.88 | -772.80 |
| 7 | GUIDE | 59903192 | 8.25 | 870 | 0.114 | 0.050 | 0.058 | 0.097 | 284.436439 | 3.775232 | 743.03 | -1217.98 |

2.4 Star Slots

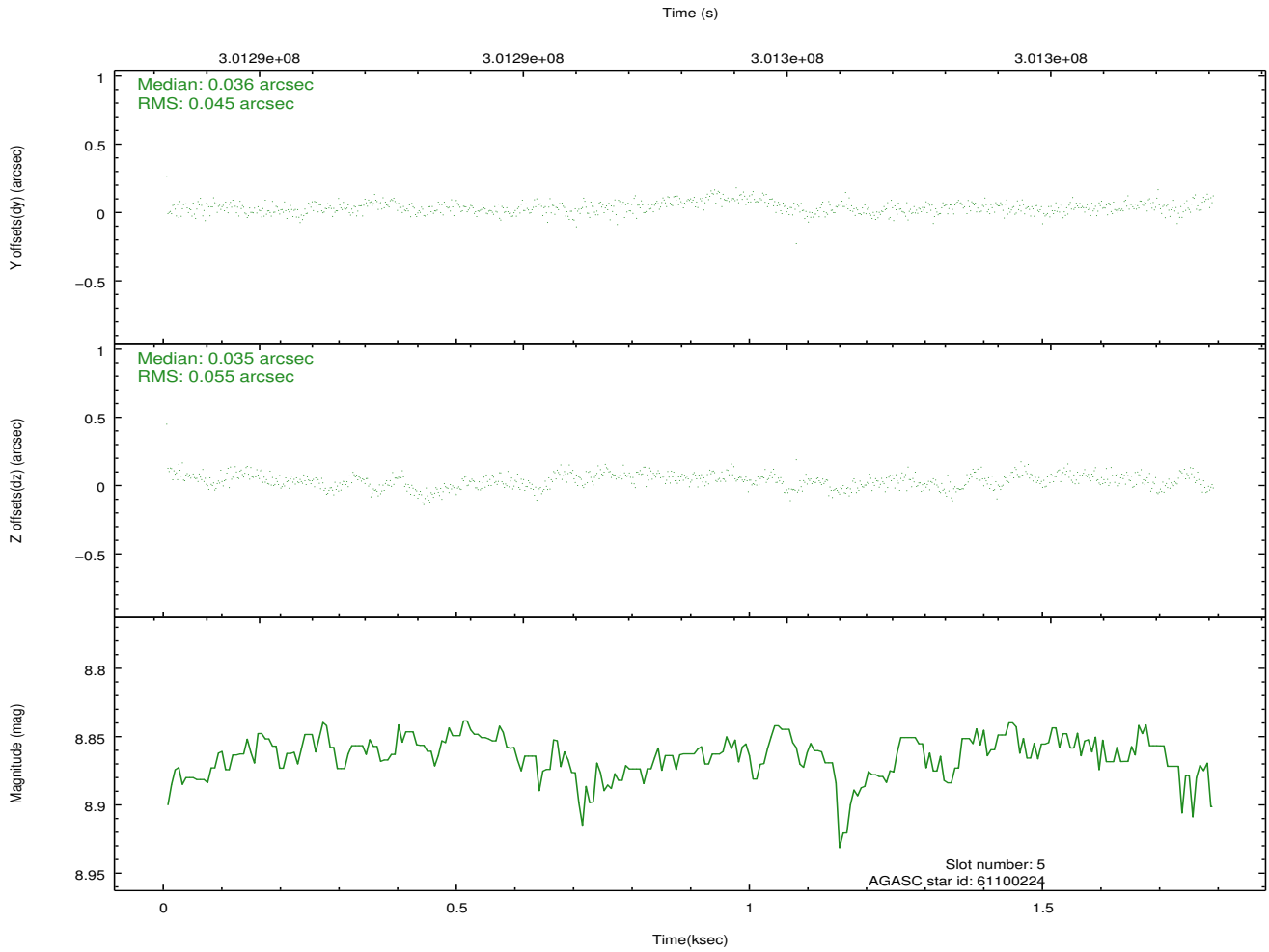
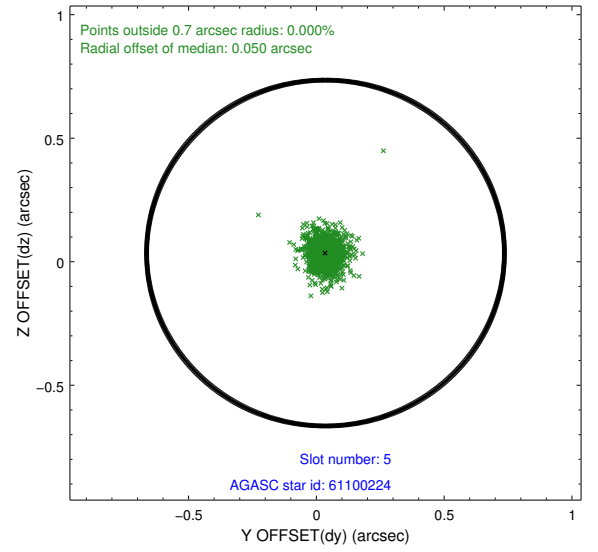
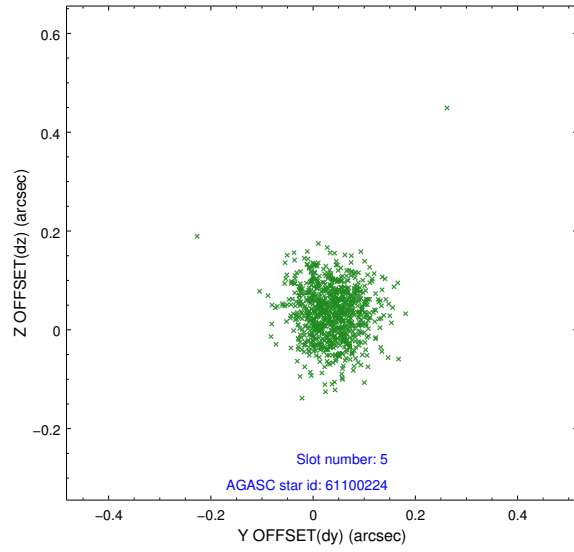
2.4.1 Slot 3



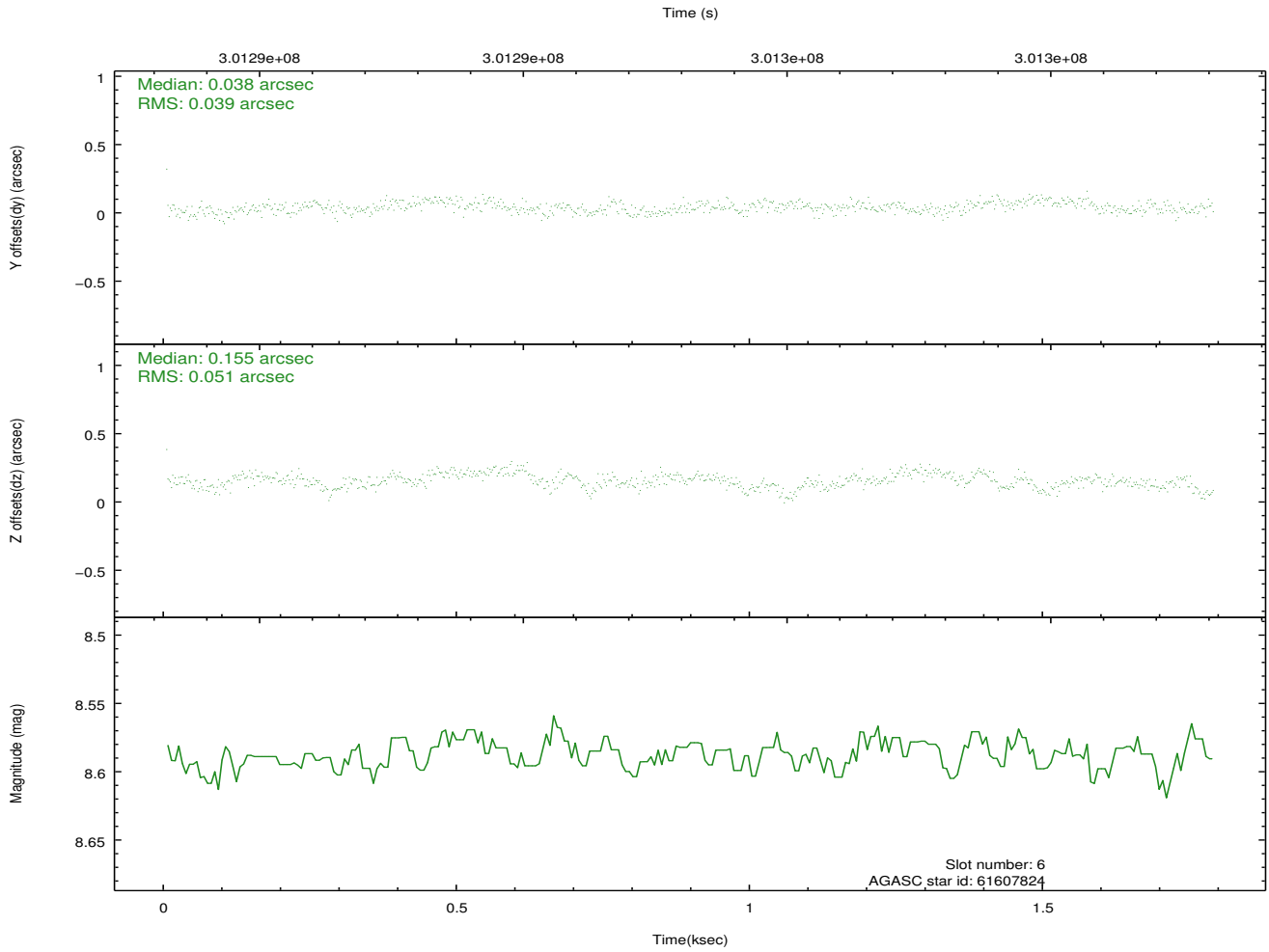
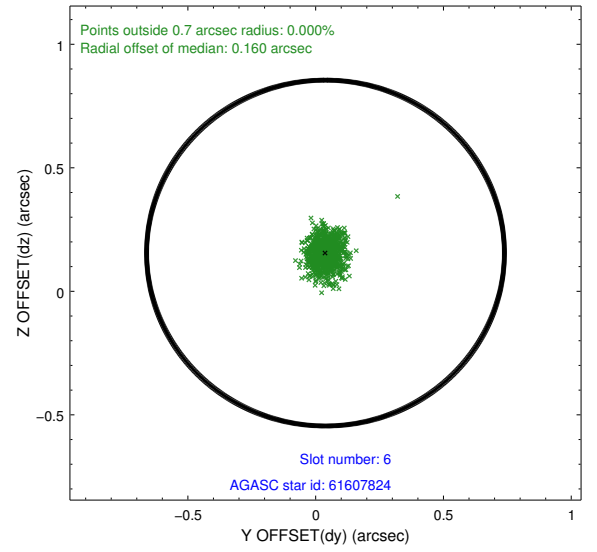
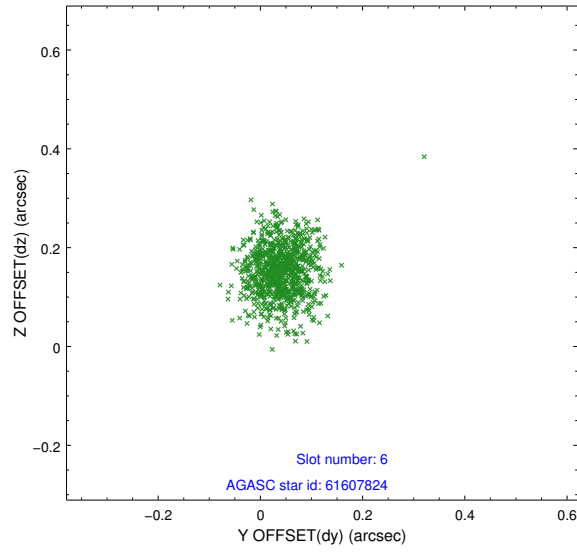
2.4.2 Slot 4



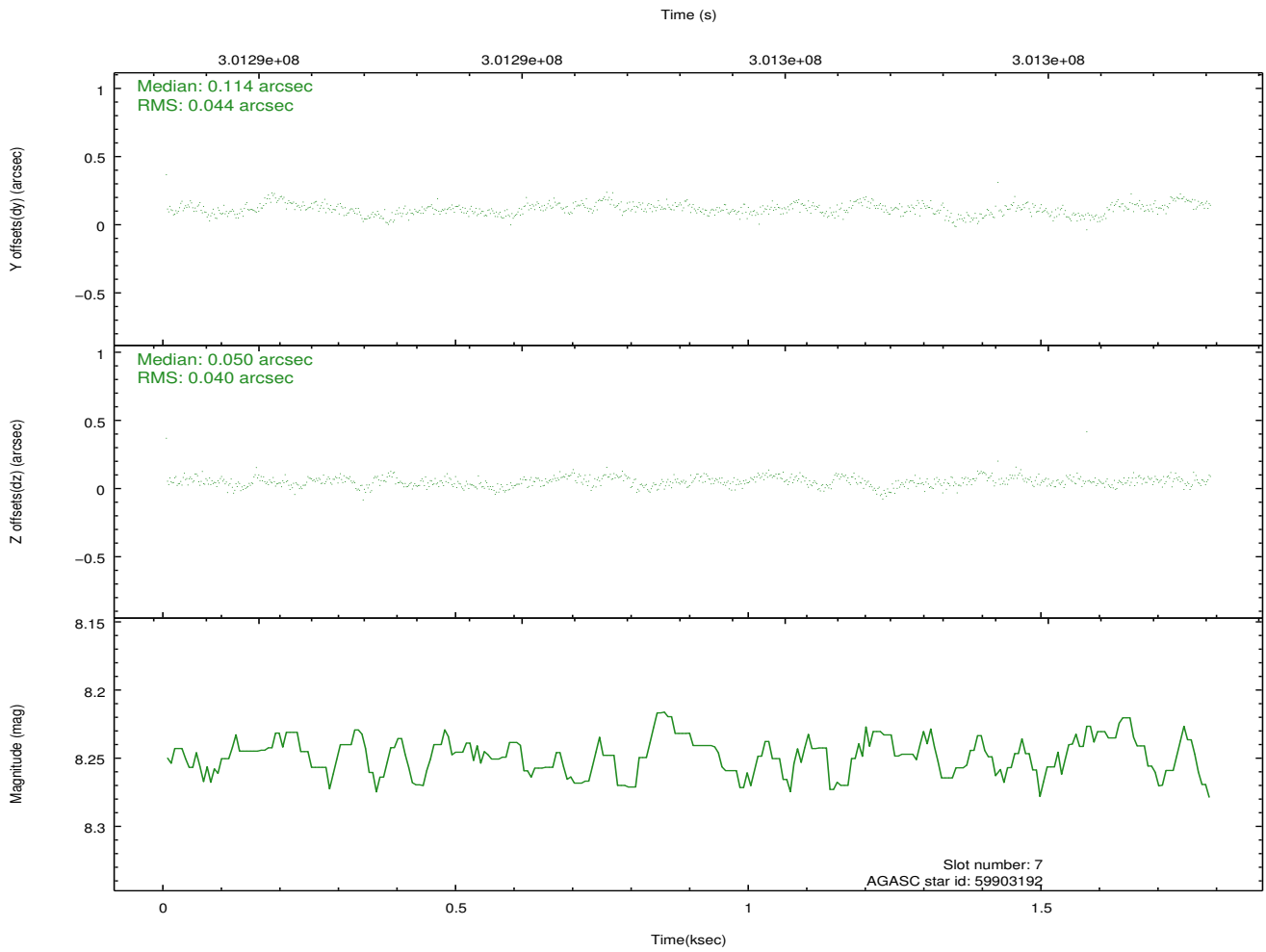
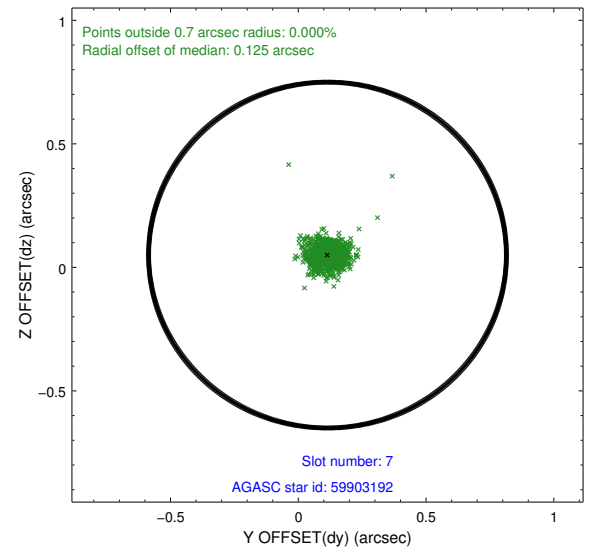
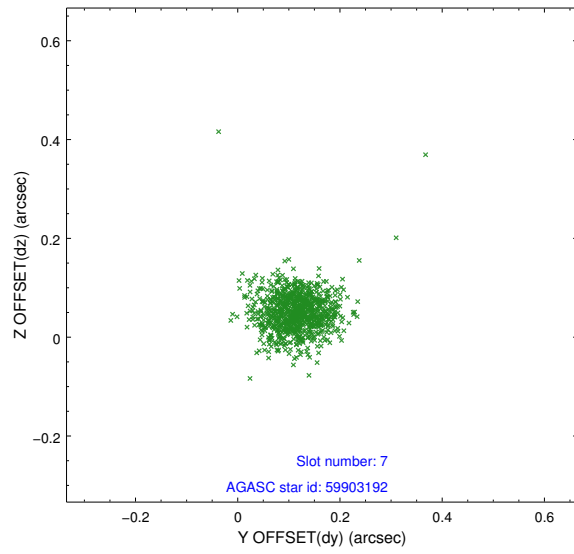
2.4.3 Slot 5



2.4.4 Slot 6

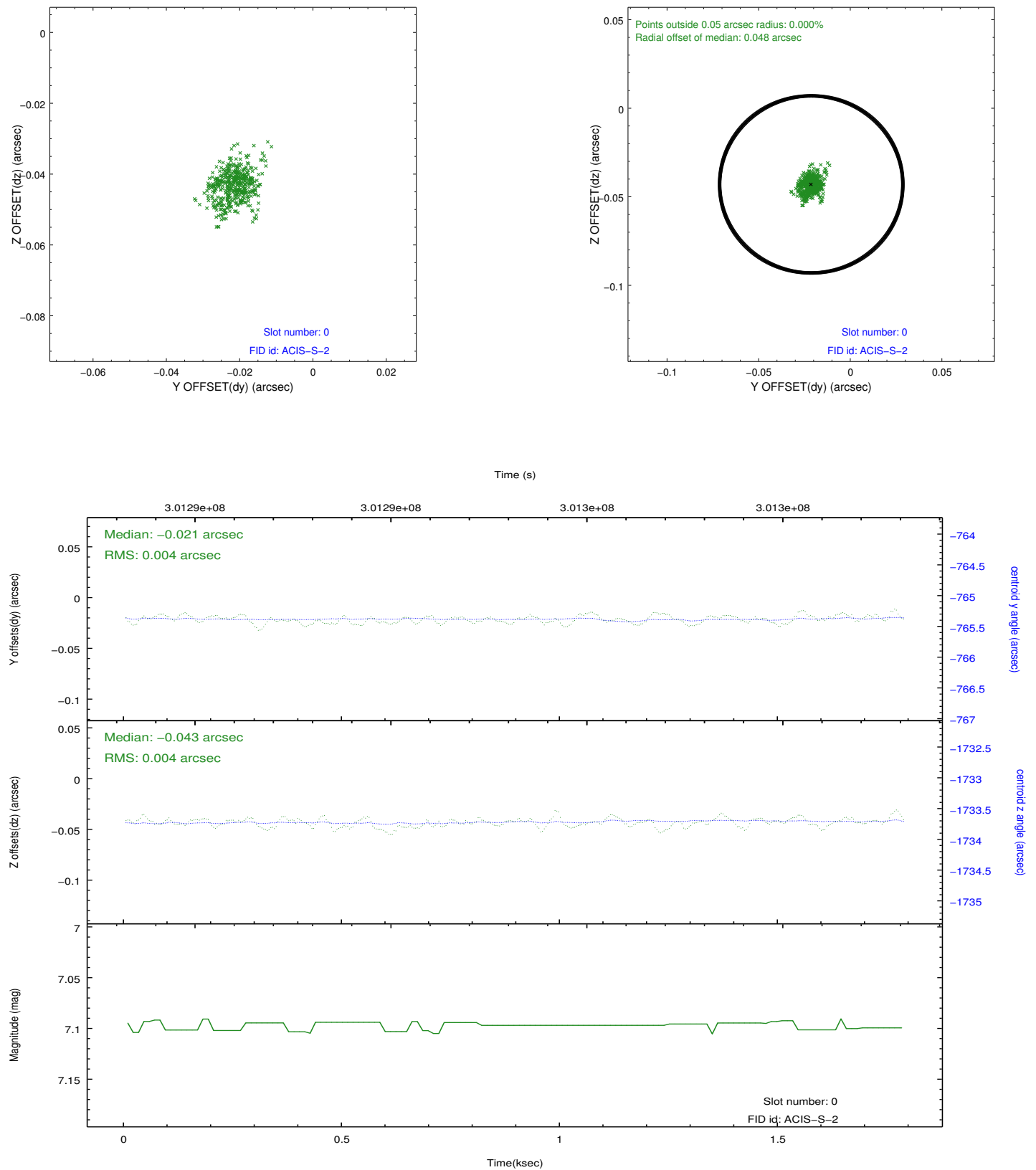


2.4.5 Slot 7

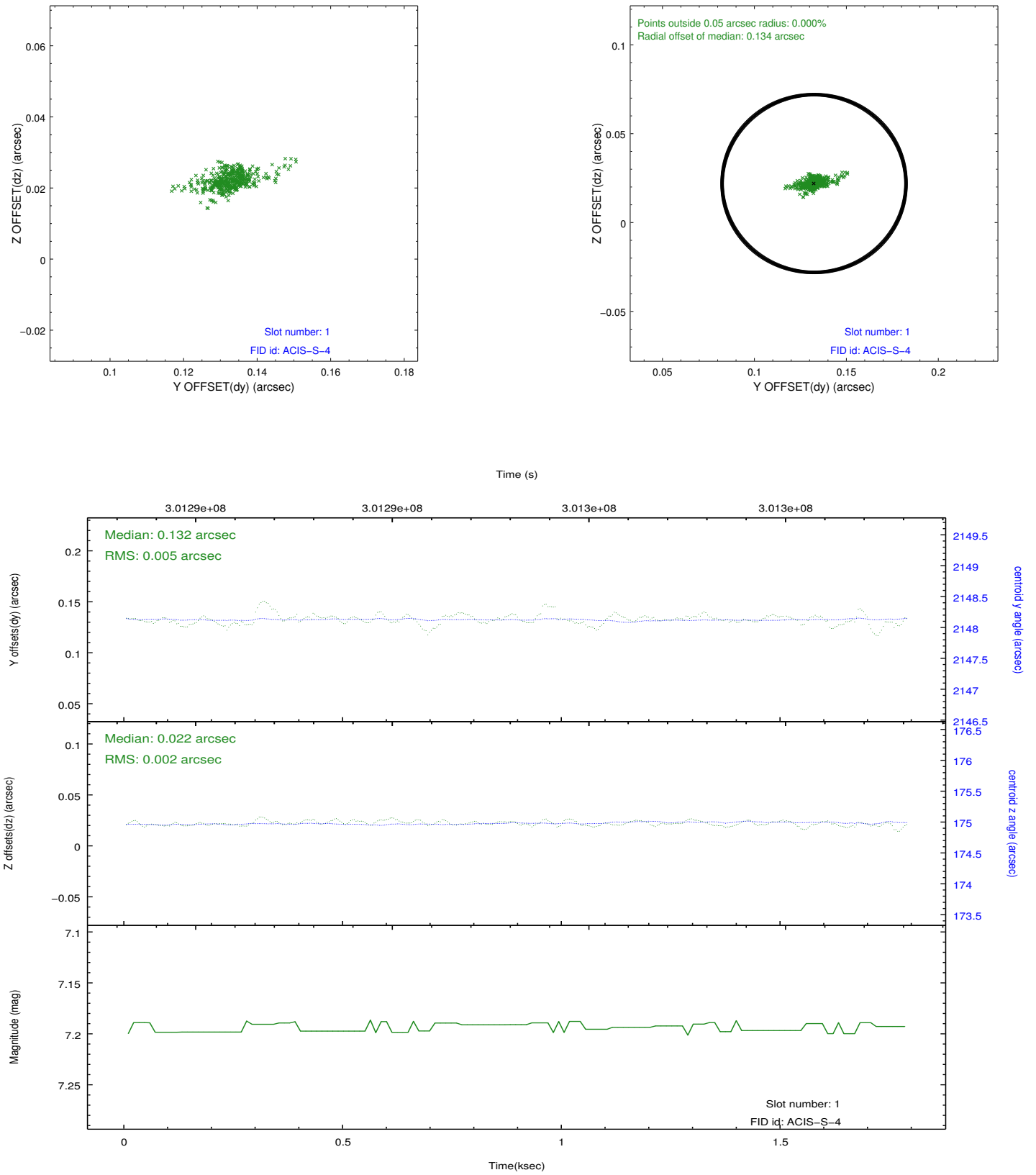


2.5 FID Slots

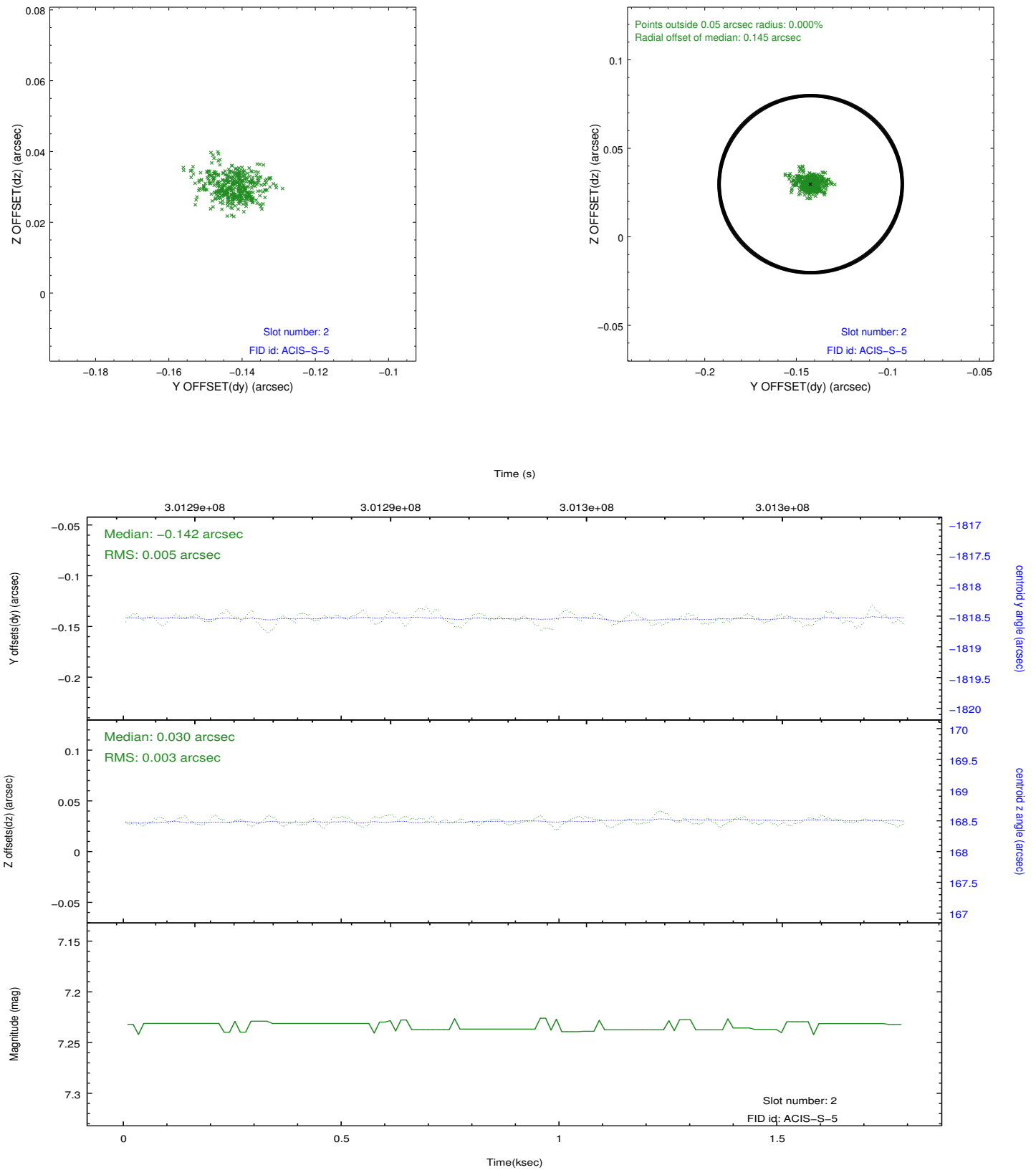
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.77919999 |

A.2 Comments