

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13562 - L2 Version 2
Chandra X-Ray Center

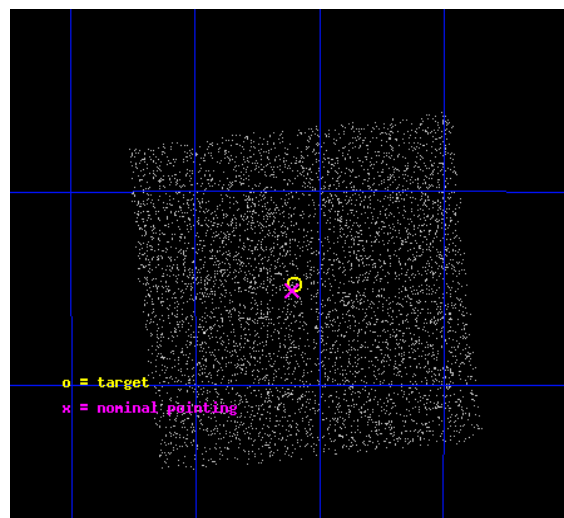
L2 Processing Date : Feb 25 2012

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1 Front

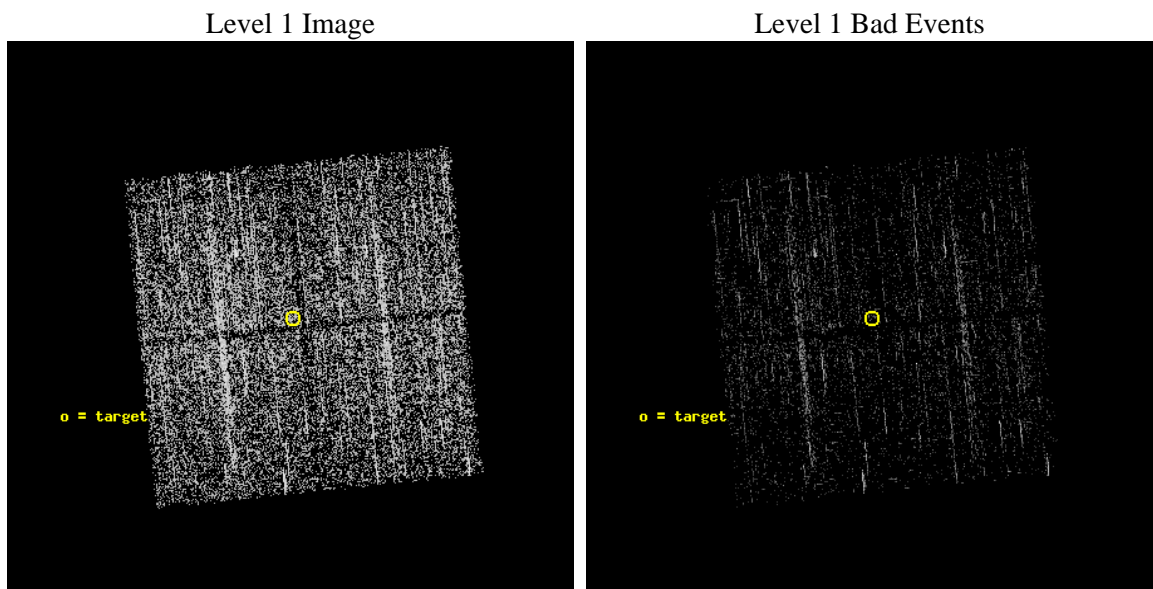
| | | |
|----------|--|--|
| seq_num | 401338 | Sequence number |
| obs_id | 13562 | Observation id |
| title | Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge | Proposal title |
| observer | dr P Jonker | Principal investigator |
| object | GBS13-4 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 268.275956 | Observer's specified target RA [deg] |
| dec_targ | -29.913184 | Observer's specified target Dec [deg] |
| ra_nom | 268.27793893976 | Nominal RA [deg] |
| dec_nom | -29.918824960792 | Nominal Dec [deg] |
| roll_nom | 264.21109758426 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1973.3148773313 | Sum of GTIs [s] |
| livetime | 1947.5320657256 | Livetime [s] |
| ontime0 | 1973.1917573214 | Sum of GTIs [s] |
| ontime1 | 1973.2327973247 | Sum of GTIs [s] |
| ontime2 | 1973.273837328 | Sum of GTIs [s] |
| ontime3 | 1973.3148773313 | Sum of GTIs [s] |
| l2events | 6274 | Number of level 2 events |



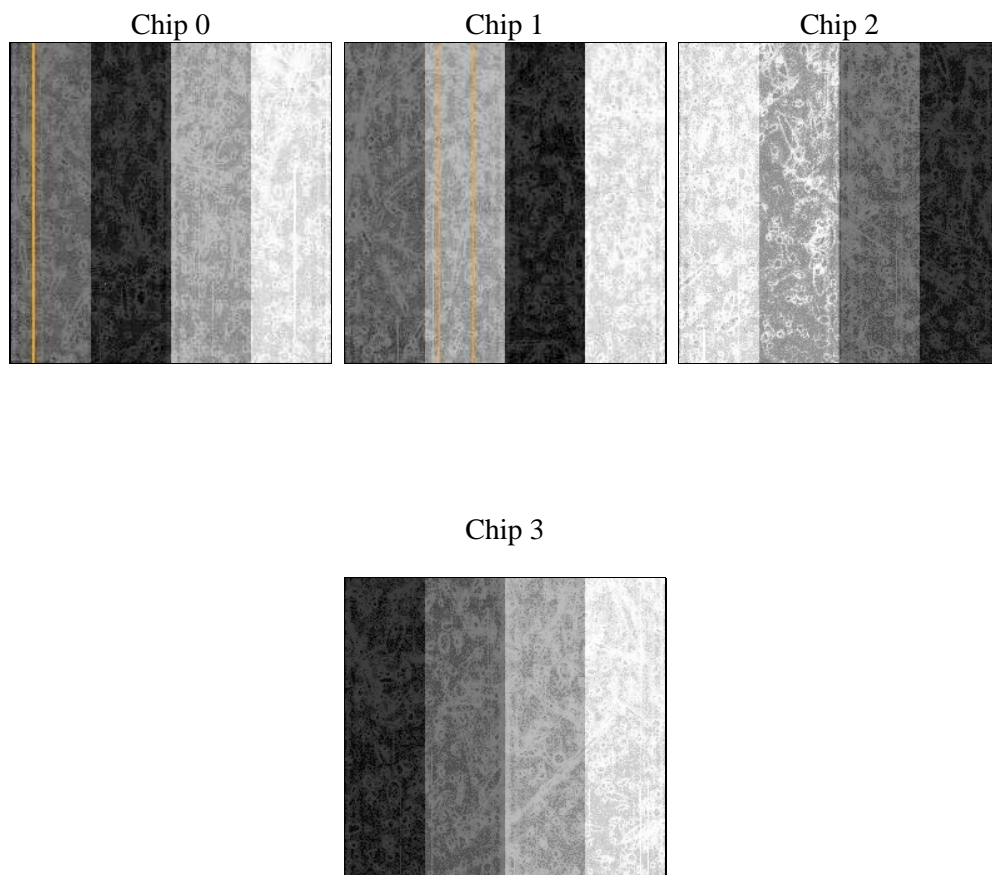
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2180.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 1973.3148773313 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 1973.1917573214 | Sum of GTIs [s] |
| date | 2012-02-26T01:08:23 | Date and time of file creation | ontime1 | 1973.2327973247 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 1973.273837328 | Sum of GTIs [s] |
| | | | ontime3 | 1973.3148773313 | Sum of GTIs [s] |
| | | | l1events | 48695 | Number of level 1 events |

2.1.4 Events

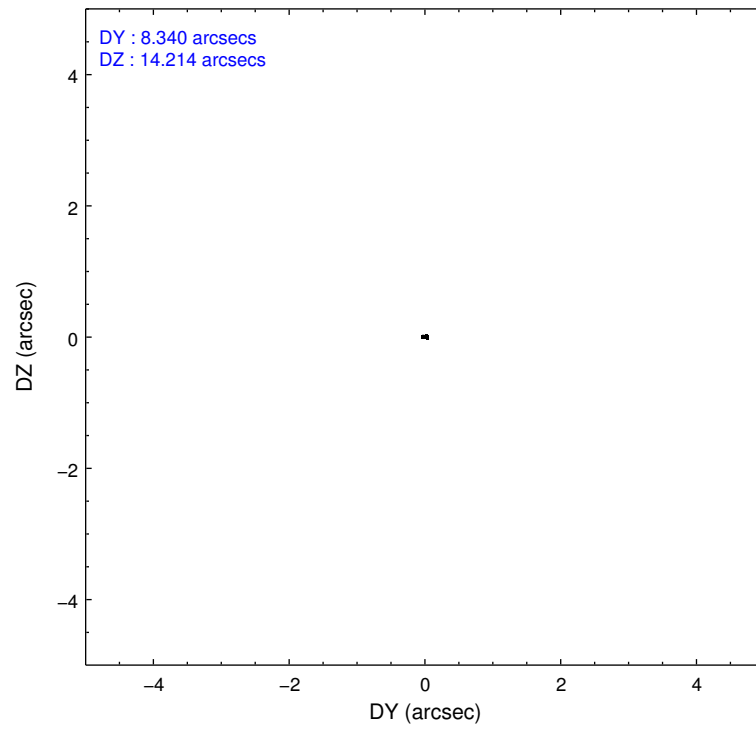
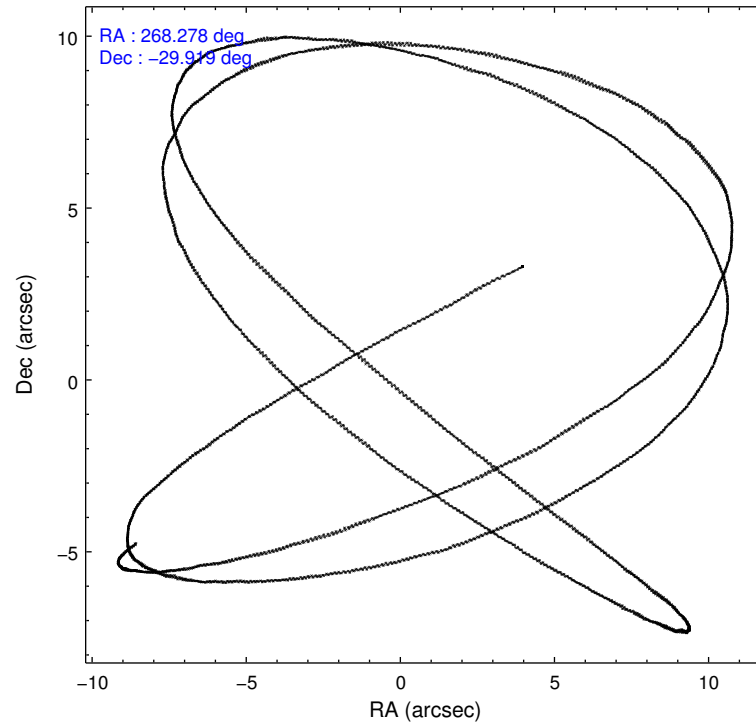
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 11712 | 11901 | 12000 | 13082 |
| rejected events | 9868 | 9999 | 10260 | 11299 |
| rejected % | 84% | 84% | 85% | 86% |

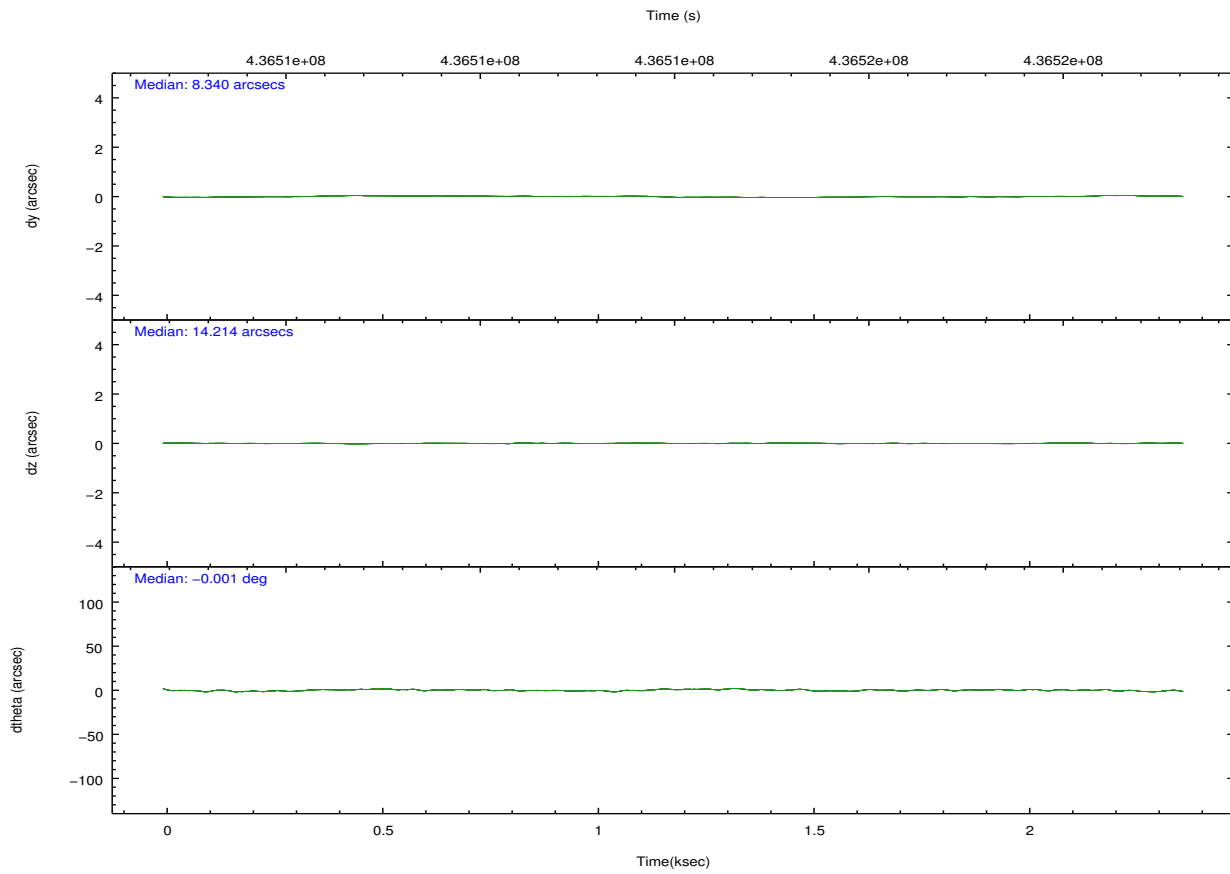
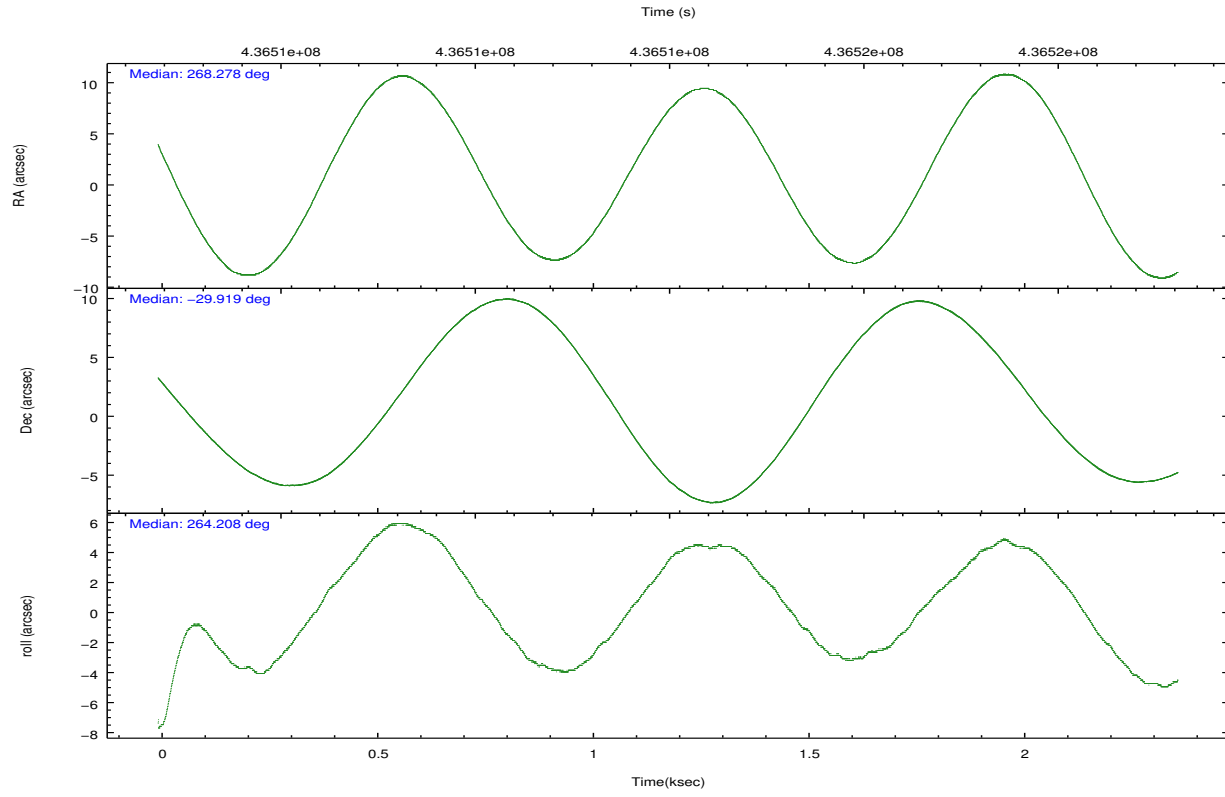
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 773 | 835 | 833 | 898 |
| | 6% | 7% | 6% | 6% |
| grade 1 events | 10 | 9 | 9 | 9 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 421 | 428 | 376 | 340 |
| | 3% | 3% | 3% | 2% |
| grade 3 events | 167 | 168 | 150 | 151 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 171 | 150 | 138 | 150 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 479 | 585 | 509 | 584 |
| | 4% | 4% | 4% | 4% |
| grade 6 events | 322 | 327 | 251 | 250 |
| | 2% | 2% | 2% | 1% |
| grade 7 events | 9369 | 9399 | 9734 | 10700 |
| | 79% | 78% | 81% | 81% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 268.264999 | 268.2779389397601 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -29.893588 | -29.91882496079236 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 263.995979 | 264.2110975842601 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 436513489.184000 | 436513112.60649 | | | |
| Observation start date | 2011-11-01T05:43:43 | 2011-11-01T05:38:32 | | | |
| [s] Observation end time (MET) | 436515669.184000 | 436515802.71913 | | | |
| Observation end date | 2011-11-01T06:20:03 | 2011-11-01T06:23:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



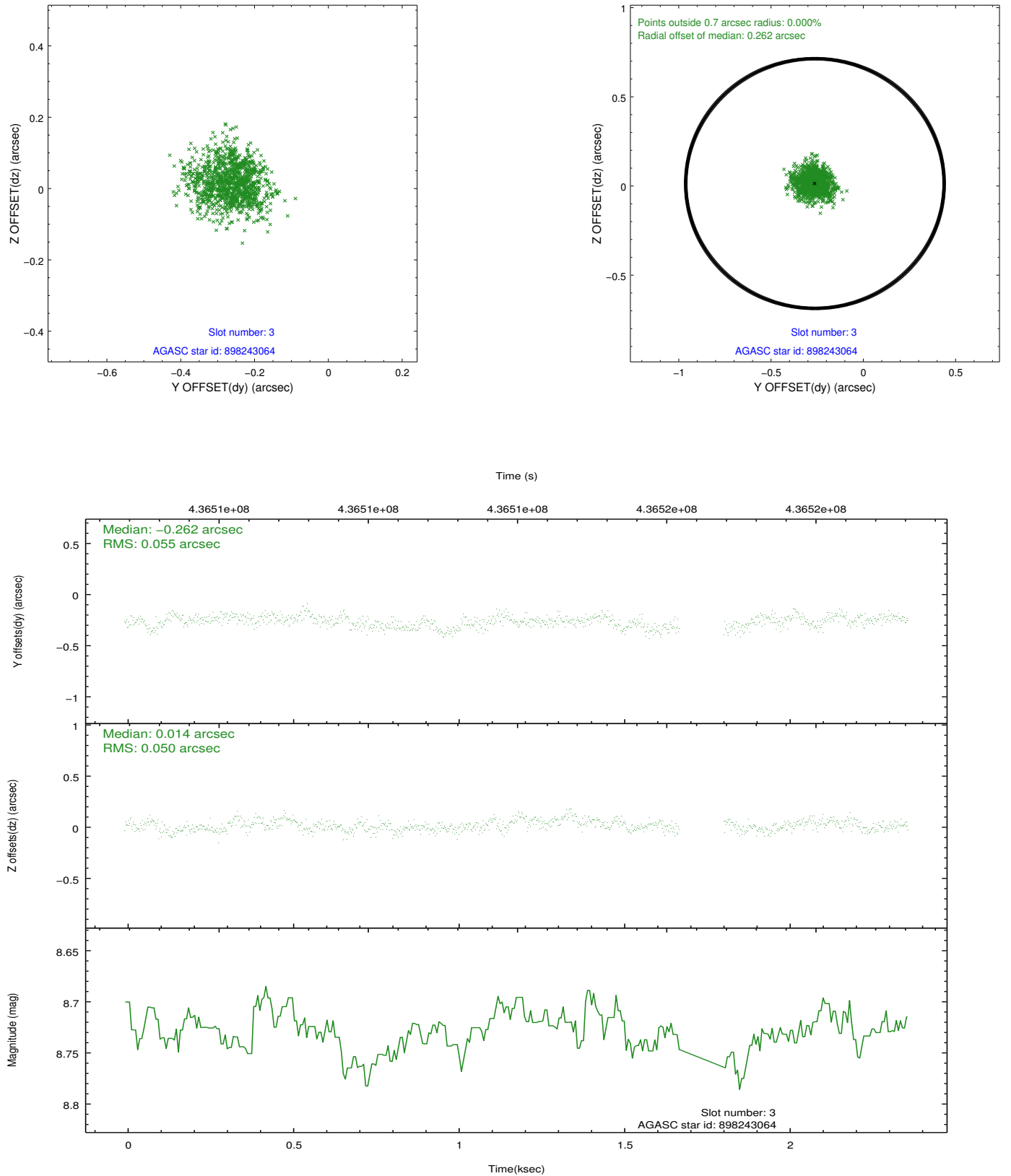


Slot Statistics

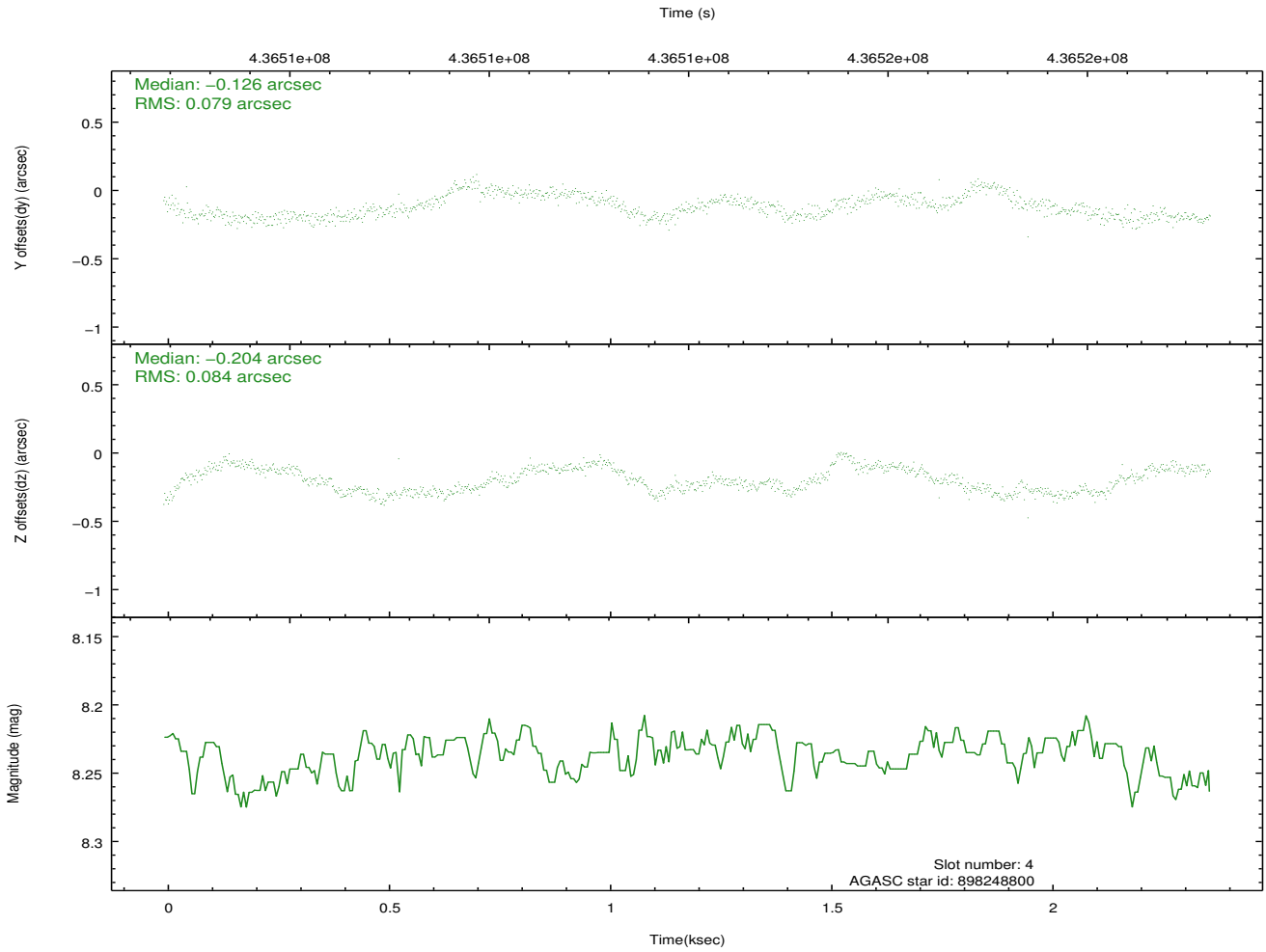
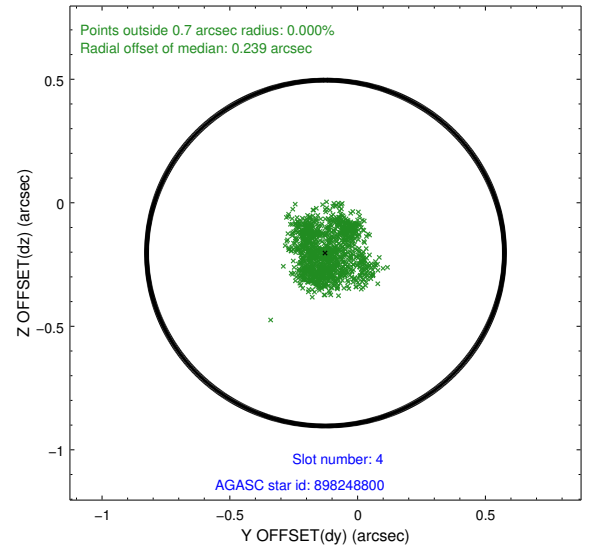
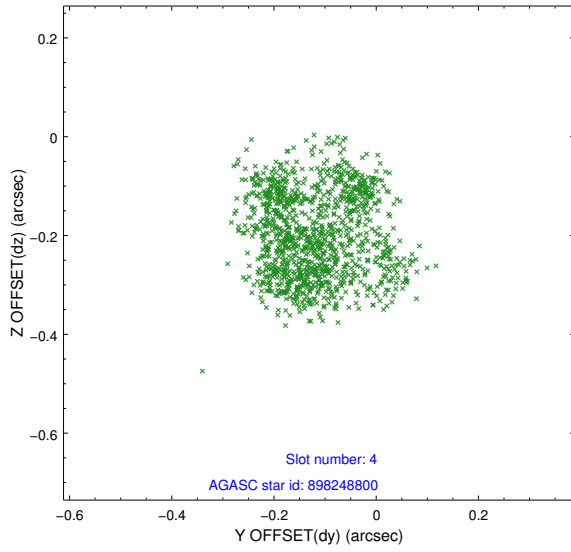
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|---------|
| 0 | FID | ACIS-I-4 | 6.95 | 577 | 0.205 | 0.022 | 0.010 | 0.017 | 0.000000 | 0.000000 | 2151.48 | 1062.08 |
| 1 | FID | ACIS-I-5 | 7.00 | 578 | -0.295 | 0.020 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1813.46 | 1061.64 |
| 2 | FID | ACIS-I-6 | 7.01 | 577 | -0.009 | 0.026 | 0.014 | 0.020 | 0.000000 | 0.000000 | 393.88 | 1705.96 |
| 3 | GUIDE | 898243064 | 8.73 | 1090 | -0.262 | 0.014 | 0.079 | 0.127 | 268.852106 | -29.678564 | -958.70 | 1746.13 |
| 4 | GUIDE | 898248800 | 8.24 | 1153 | -0.126 | -0.204 | 0.129 | 0.183 | 267.977609 | -29.931731 | 229.93 | -875.41 |
| 5 | GUIDE | 898250872 | 7.07 | 1155 | -0.124 | -0.178 | 0.069 | 0.109 | 268.026303 | -29.632040 | -858.04 | -841.76 |
| 6 | GUIDE | 967060720 | 7.56 | 1155 | 0.085 | 0.065 | 0.078 | 0.131 | 268.816262 | -30.601019 | 2356.86 | 1965.68 |
| 7 | GUIDE | 967054592 | 7.92 | 1154 | 0.411 | 0.296 | 0.065 | 0.113 | 268.937317 | -30.571672 | 2217.61 | 2331.17 |

2.4 Star Slots

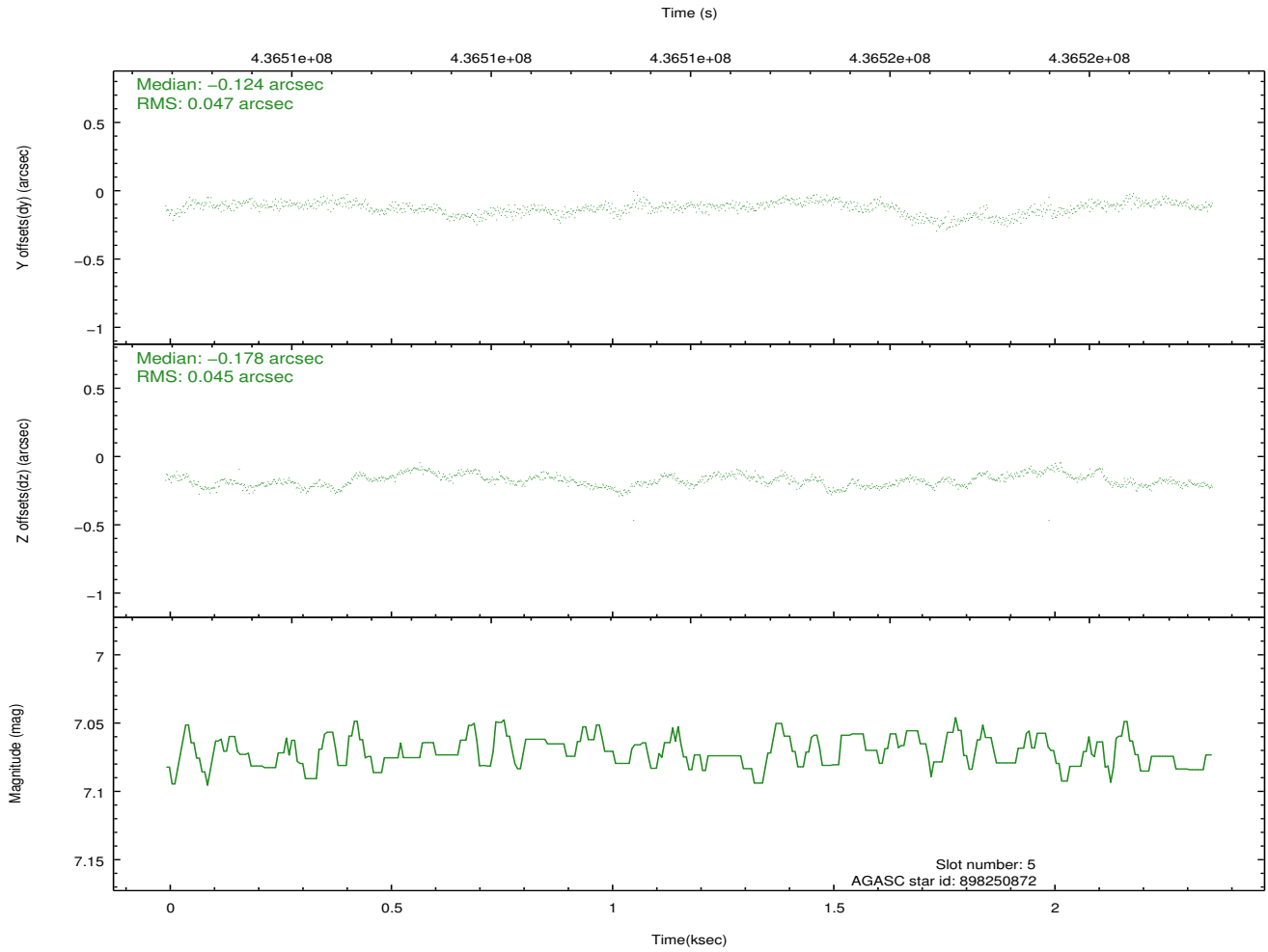
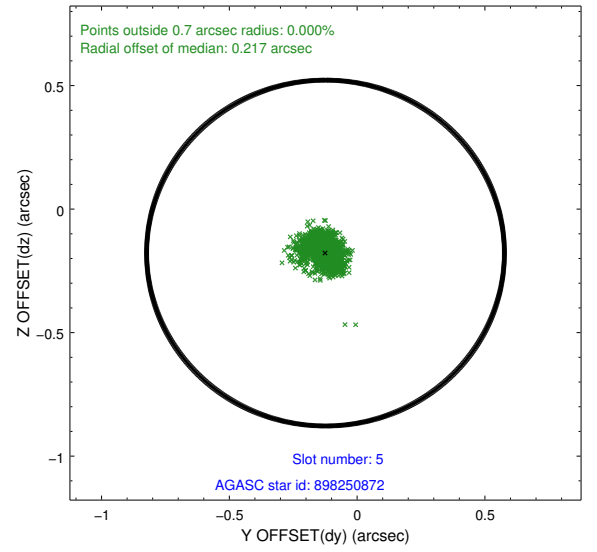
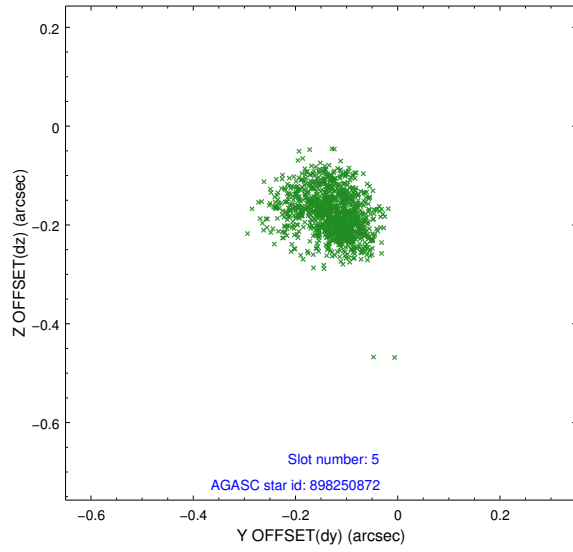
2.4.1 Slot 3



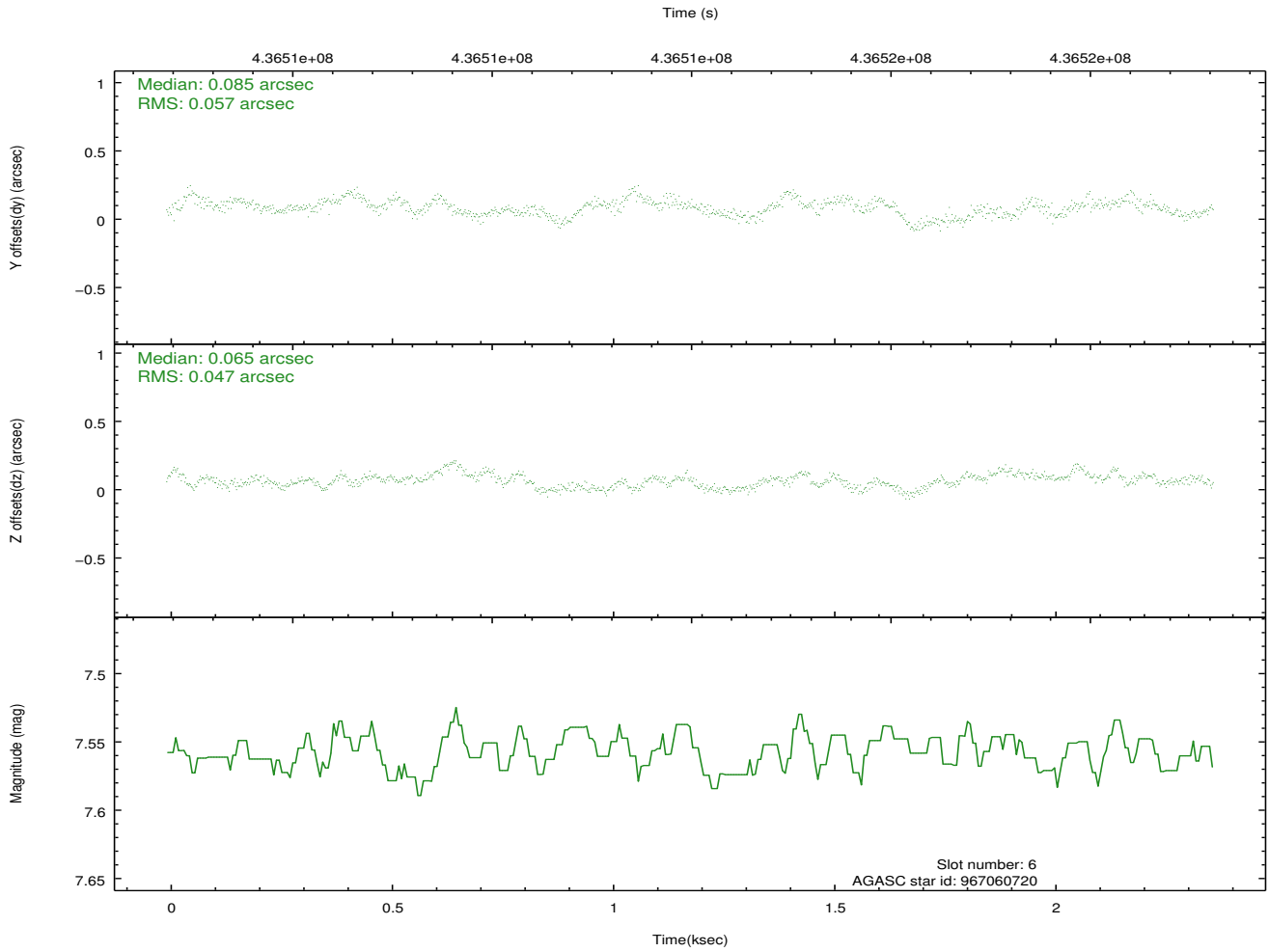
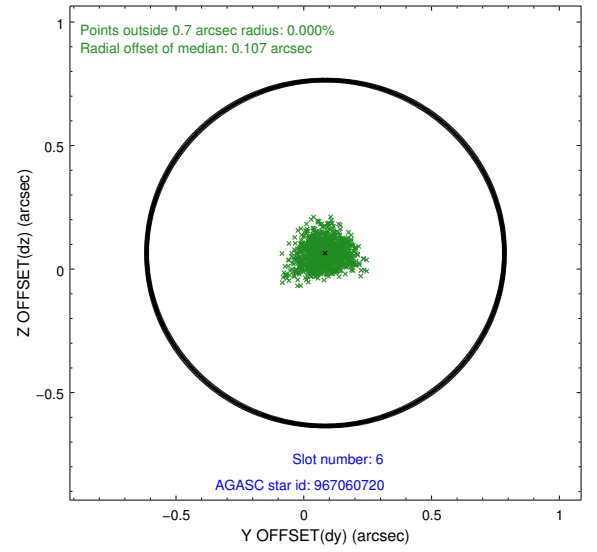
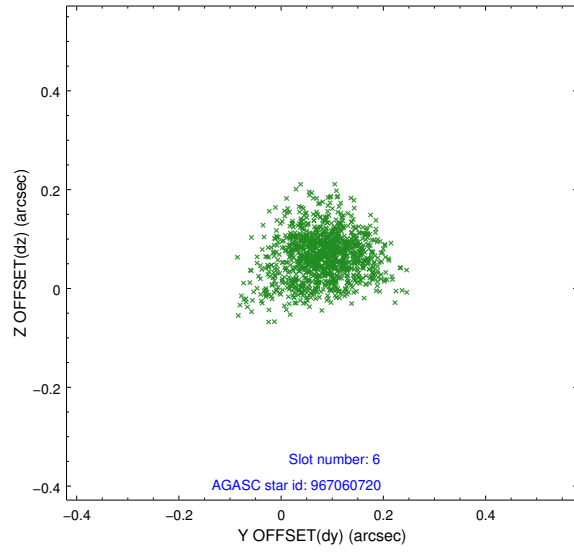
2.4.2 Slot 4



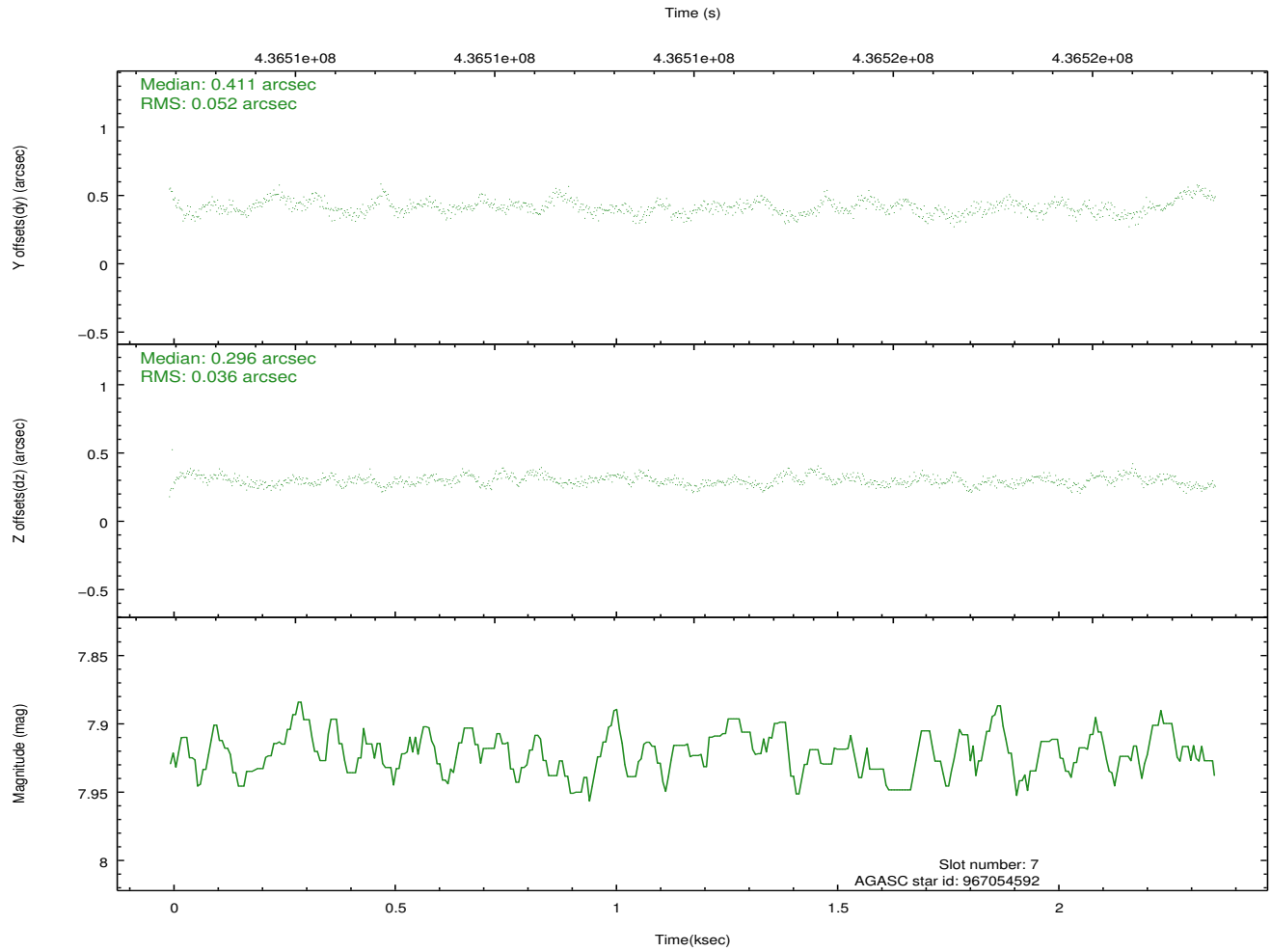
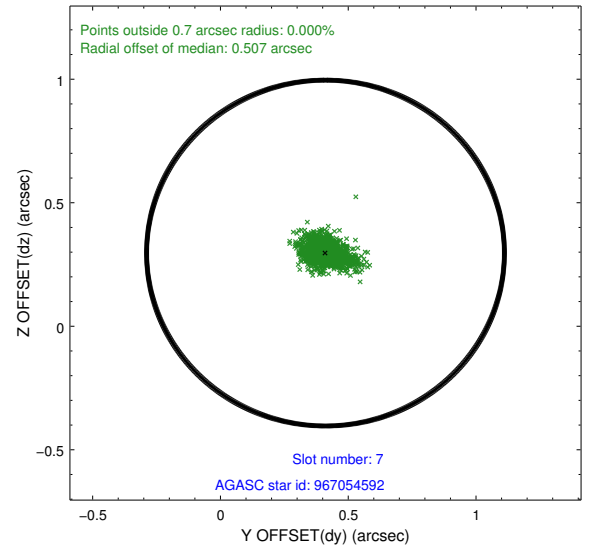
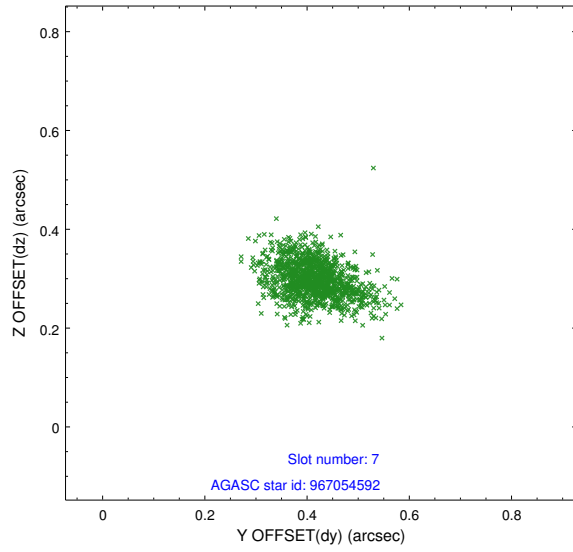
2.4.3 Slot 5



2.4.4 Slot 6

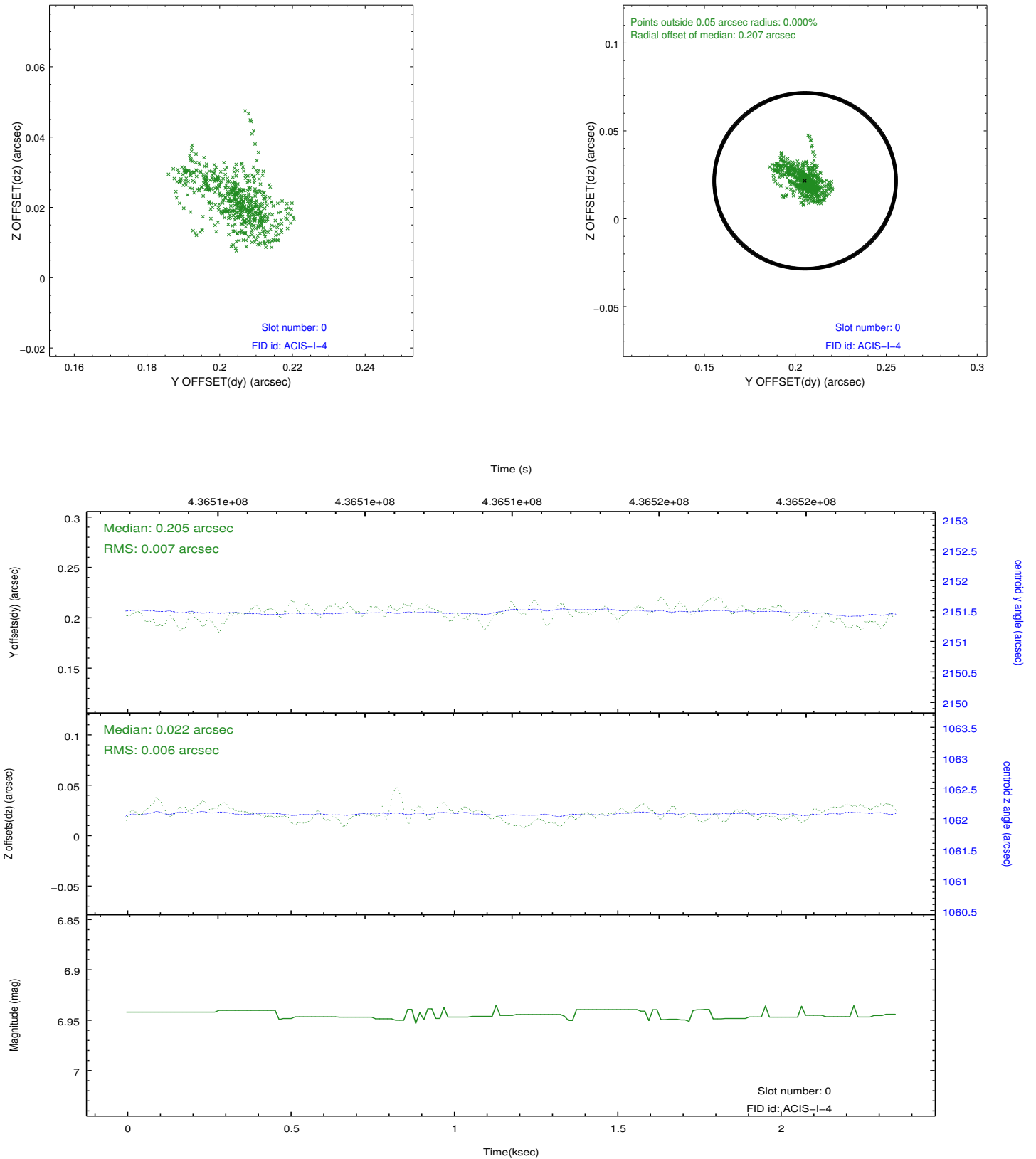


2.4.5 Slot 7

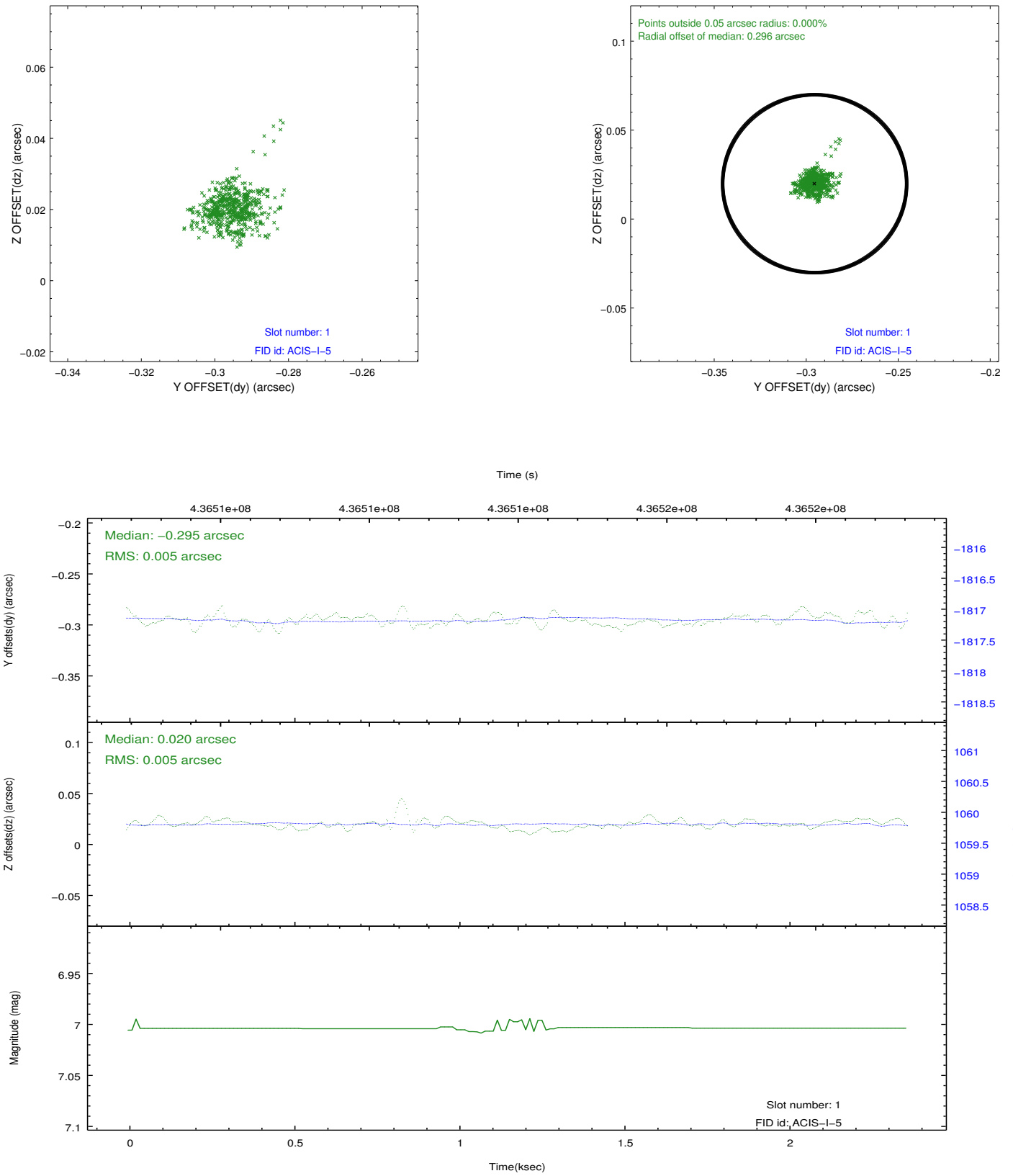


2.5 FID Slots

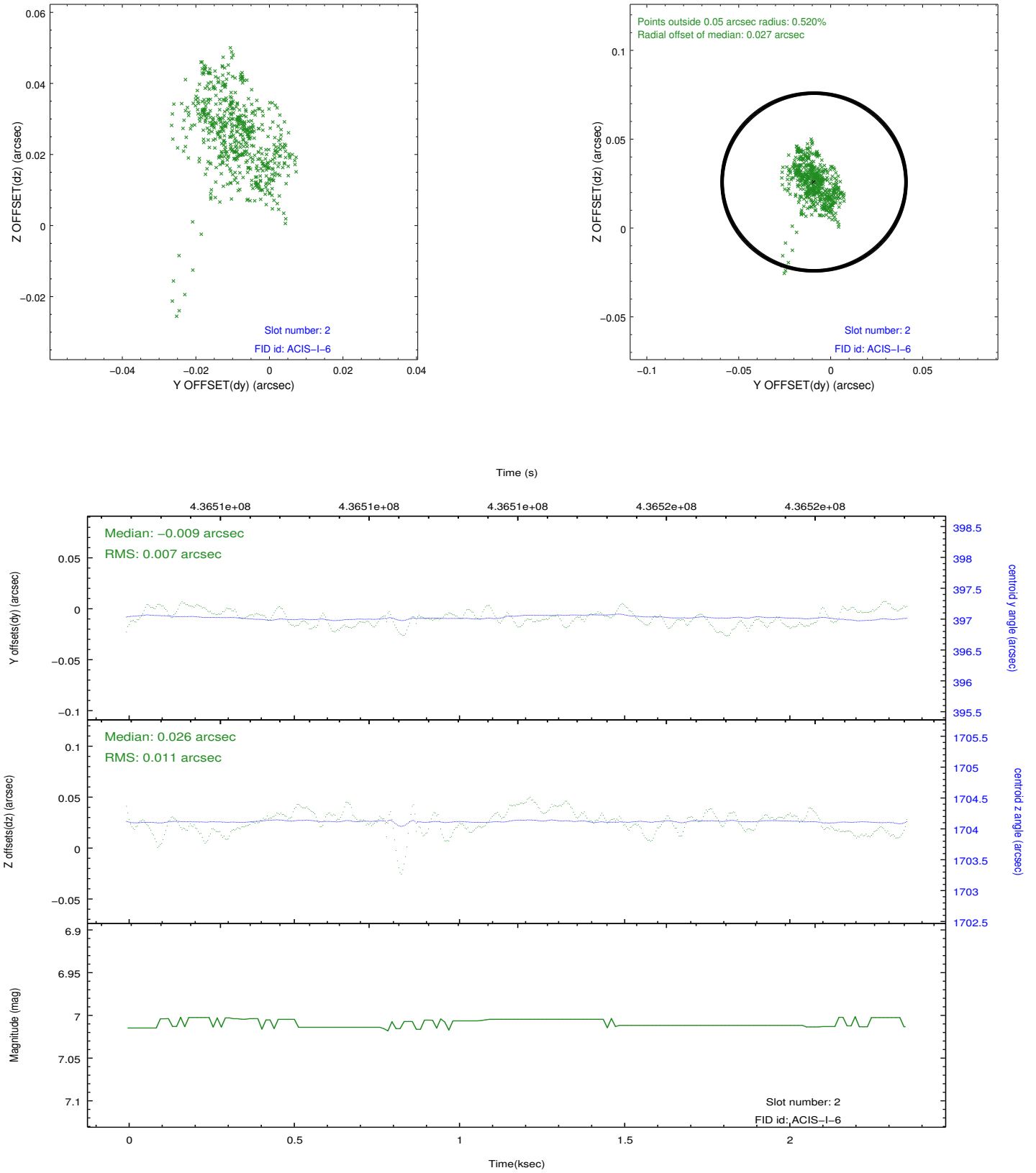
2.5.1 Slot 0



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) | 2012.02.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.9733148742914 |

A.2 Comments

Joint proposal: NOAO