

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9068 - L2 Version 2
Chandra X-Ray Center

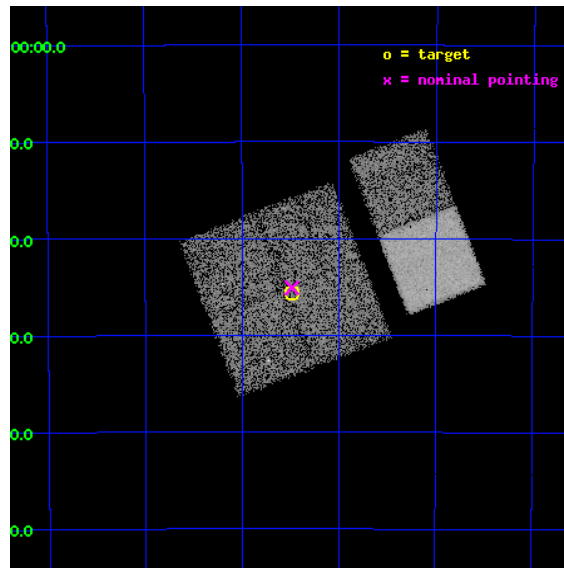
L2 Processing Date : May 5 2012

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1 Front

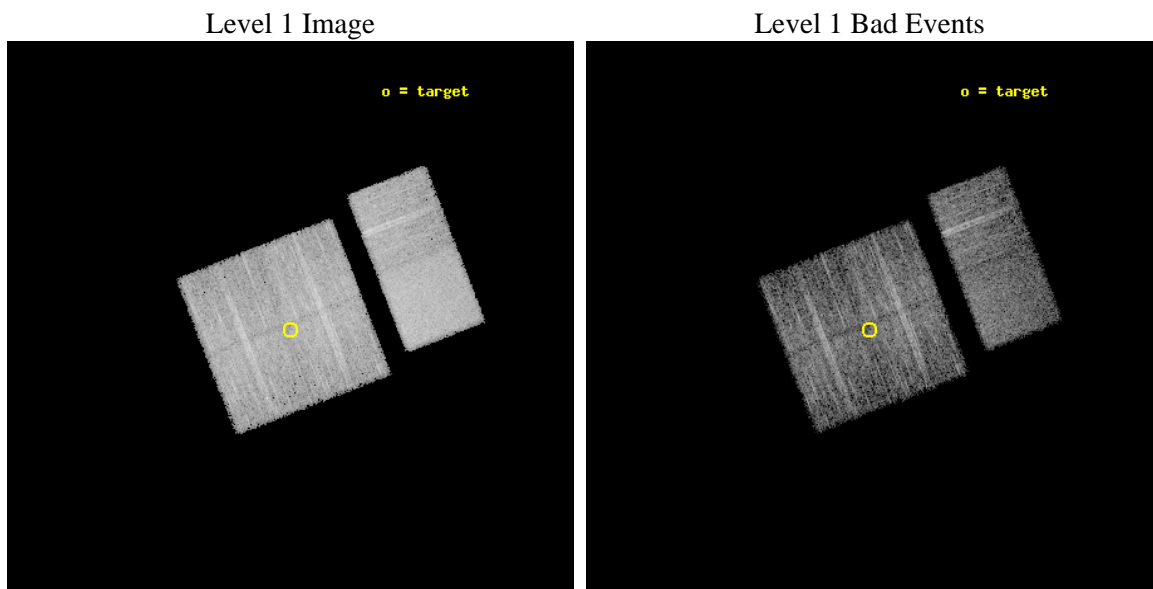
| | | |
|----------|---|---|
| seq_num | 400919 | Sequence number |
| obs_id | 9068 | Observation id |
| title | Localization and Spectra of INTEGRAL-Selected Sources in the Galactic Plane | Proposal title |
| observer | Dr. John Tomsick | Principal investigator |
| object | IGR J09485-4726 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 147.120833 | Observer's specified target RA [deg] |
| dec_targ | -47.426944 | Observer's specified target Dec [deg] |
| ra_nom | 147.12141295479 | Nominal RA [deg] |
| dec_nom | -47.418271218804 | Nominal Dec [deg] |
| roll_nom | 68.786263775781 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5119.9999809861 | Sum of GTIs [s] |
| livetime | 5055.167458333 | Livetime [s] |
| ontime0 | 5119.9999809861 | Sum of GTIs [s] |
| ontime1 | 5119.9999809861 | Sum of GTIs [s] |
| ontime2 | 5119.9999809861 | Sum of GTIs [s] |
| ontime3 | 5119.9999809861 | Sum of GTIs [s] |
| ontime6 | 5116.7590106726 | Sum of GTIs [s] |
| ontime7 | 5119.9999809861 | Sum of GTIs [s] |
| l2events | 55401 | Number of level 2 events |



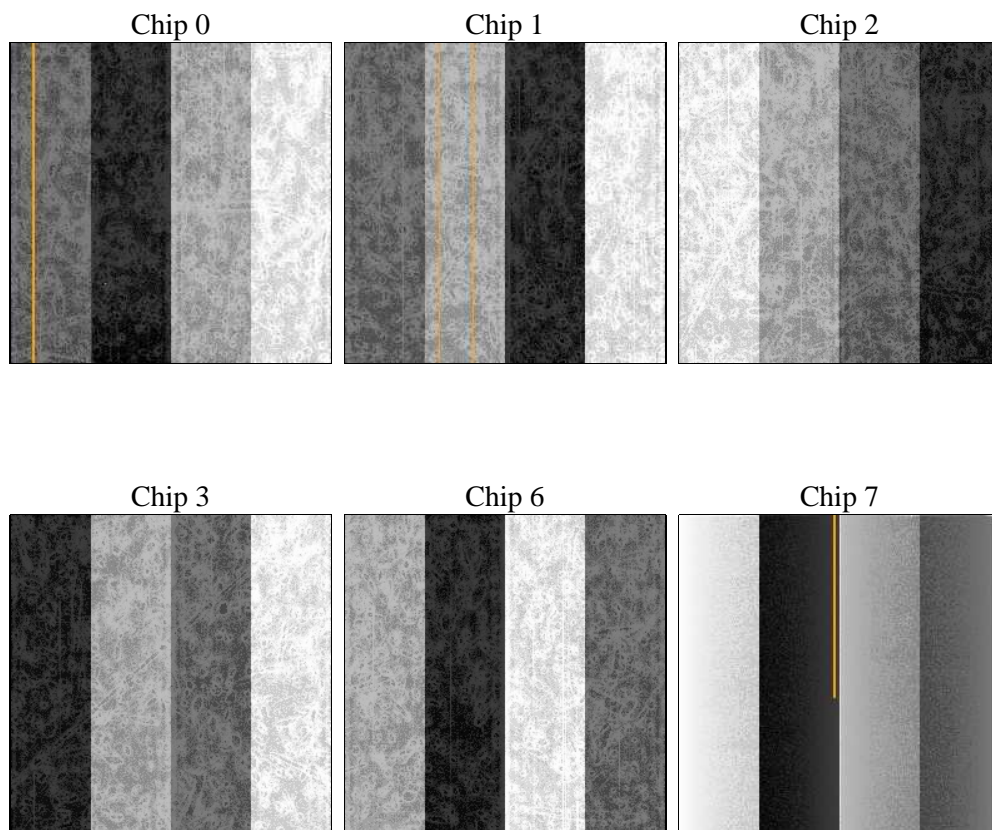
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 5119.9999809861 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 5119.9999809861 | Sum of GTIs [s] |
| date | 2012-05-05T20:46:12 | Date and time of file creation | ontime1 | 5119.9999809861 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 5119.9999809861 | Sum of GTIs [s] |
| | | | ontime3 | 5119.9999809861 | Sum of GTIs [s] |
| | | | ontime6 | 5116.7590106726 | Sum of GTIs [s] |
| | | | ontime7 | 5119.9999809861 | Sum of GTIs [s] |
| | | | l1events | 352792 | Number of level 1 events |

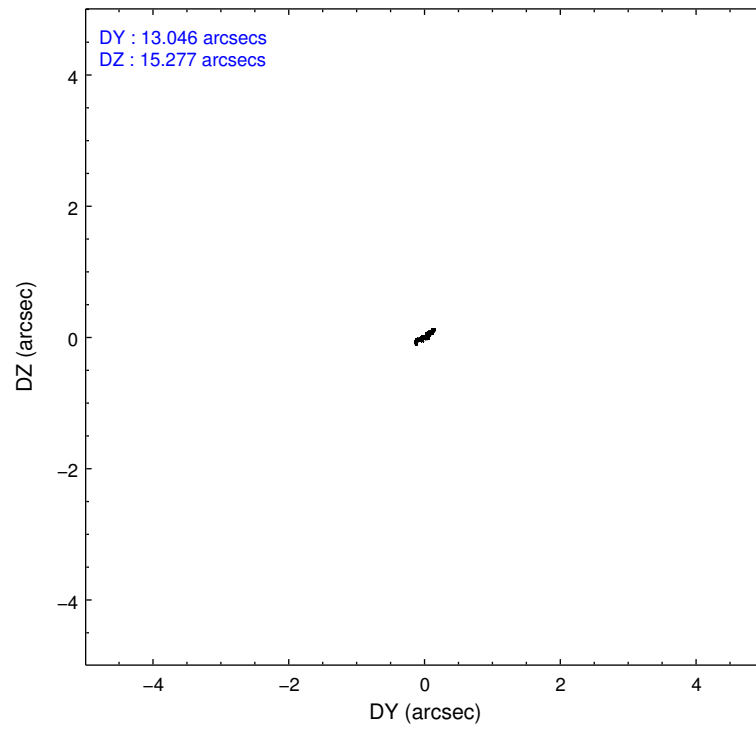
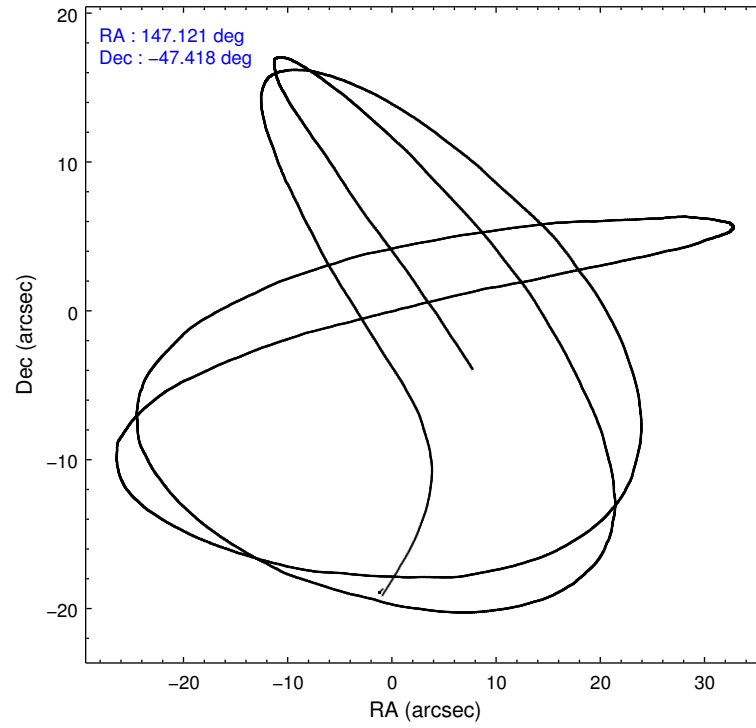
2.1.4 Events

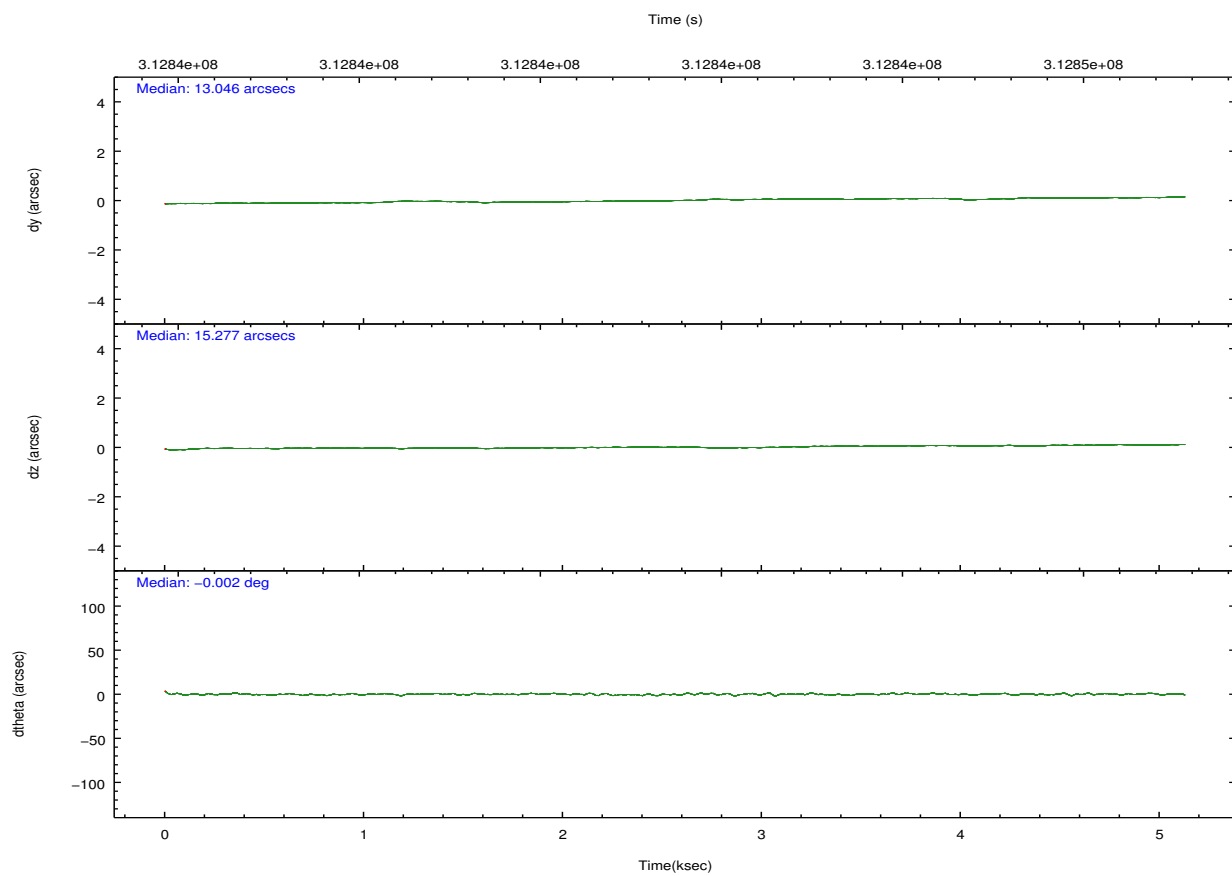
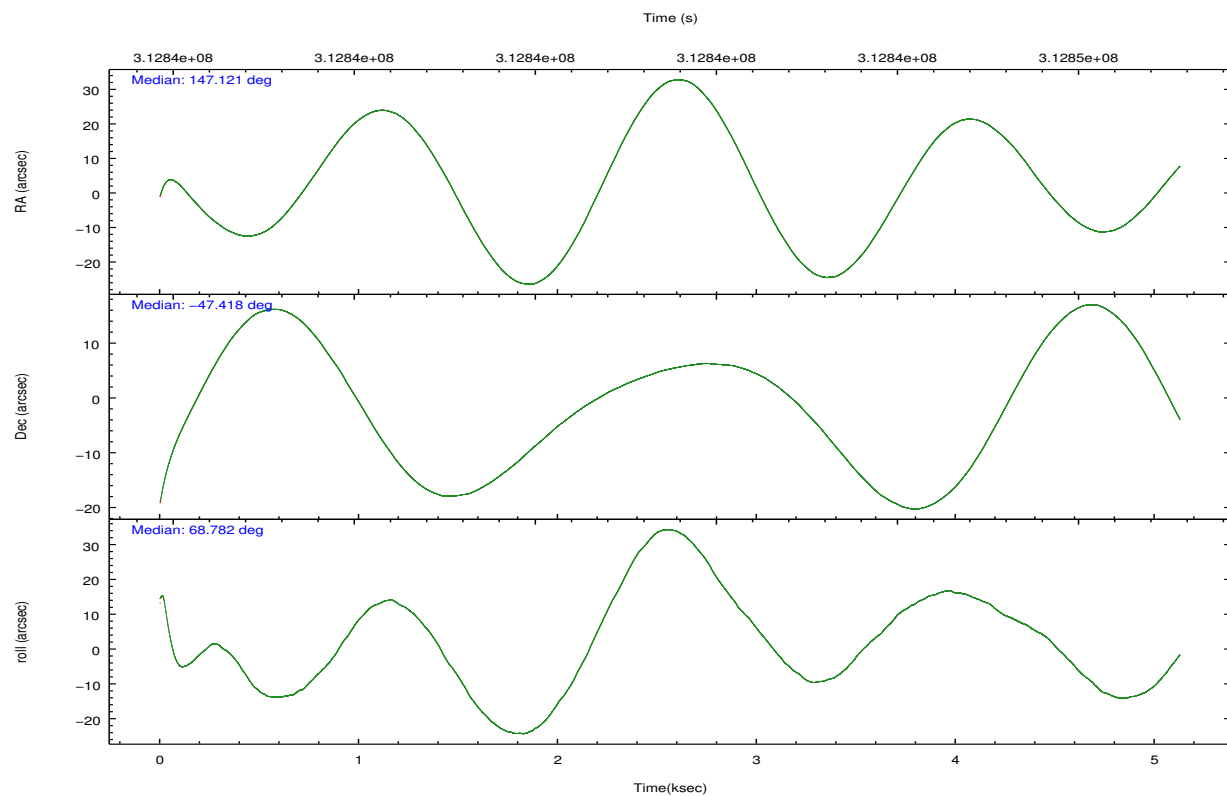
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 51330 | 52387 | 58259 | 55832 | 57242 | 77742 | grade 0 events | 2991 | 3053 | 3030 | 3041 | 2751 | 2792 |
| rejected events | 45137 | 45703 | 52113 | 49803 | 51114 | 48660 | | 5% | 5% | 5% | 5% | 4% | 3% |
| rejected % | 87% | 87% | 89% | 89% | 89% | 62% | grade 1 events | 25 | 33 | 39 | 35 | 31 | 92 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 1470 | 1735 | 1474 | 1311 | 1544 | 6756 |
| | | | | | | | | 2% | 3% | 2% | 2% | 2% | 8% |
| | | | | | | | grade 3 events | 665 | 656 | 634 | 647 | 649 | 2874 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 648 | 684 | 641 | 634 | 652 | 2758 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2304 | 2499 | 2322 | 2640 | 2793 | 7413 |
| | | | | | | | | 4% | 4% | 3% | 4% | 4% | 9% |
| | | | | | | | grade 6 events | 1197 | 1380 | 1104 | 1190 | 1342 | 17609 |
| | | | | | | | | 2% | 2% | 1% | 2% | 2% | 22% |
| | | | | | | | grade 7 events | 42030 | 42347 | 49015 | 46334 | 47480 | 37448 |
| | | | | | | | | 81% | 80% | 84% | 82% | 82% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | CCD I0 on | Y | Y |
| Observation mode | POINTING | POINTING | CCD I1 on | Y | Y |
| [deg] Pointing RA | 147.128026 | 147.1214129547909 | CCD I2 on | Y | Y |
| [deg] Pointing Dec | -47.446030 | -47.41827121880424 | CCD I3 on | Y | Y |
| [deg] Pointing Roll | 68.582383 | 68.78626377578081 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | CCD S1 on | N | N |
| [mm] SIM defocus | 0 | 0.001439871863259334 | CCD S2 on | O1 | Y |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | CCD S3 on | O2 | Y |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | CCD S4 on | N | N |
| [s] Observation start time (MET) | 312841314.184000 | 312839945.61016 | CCD S5 on | N | N |
| Observation start date | 2007-11-30T20:20:49 | 2007-11-30T19:59:05 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 312846314.184000 | 312847113.948 | On-chip summing requested | N | N |
| Observation end date | 2007-11-30T21:44:09 | 2007-11-30T21:58:33 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.2 |

2.3 Aspect



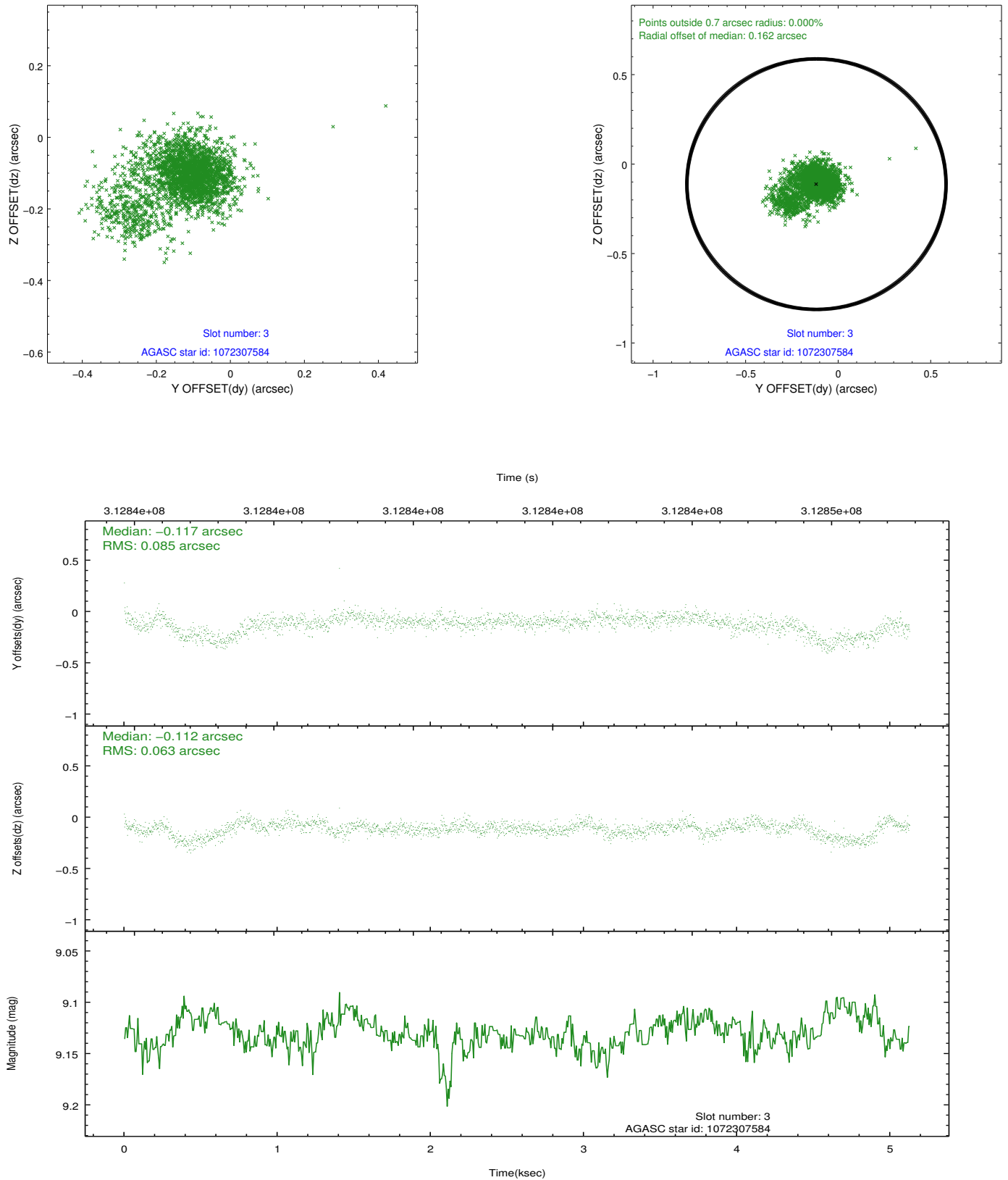


Slot Statistics

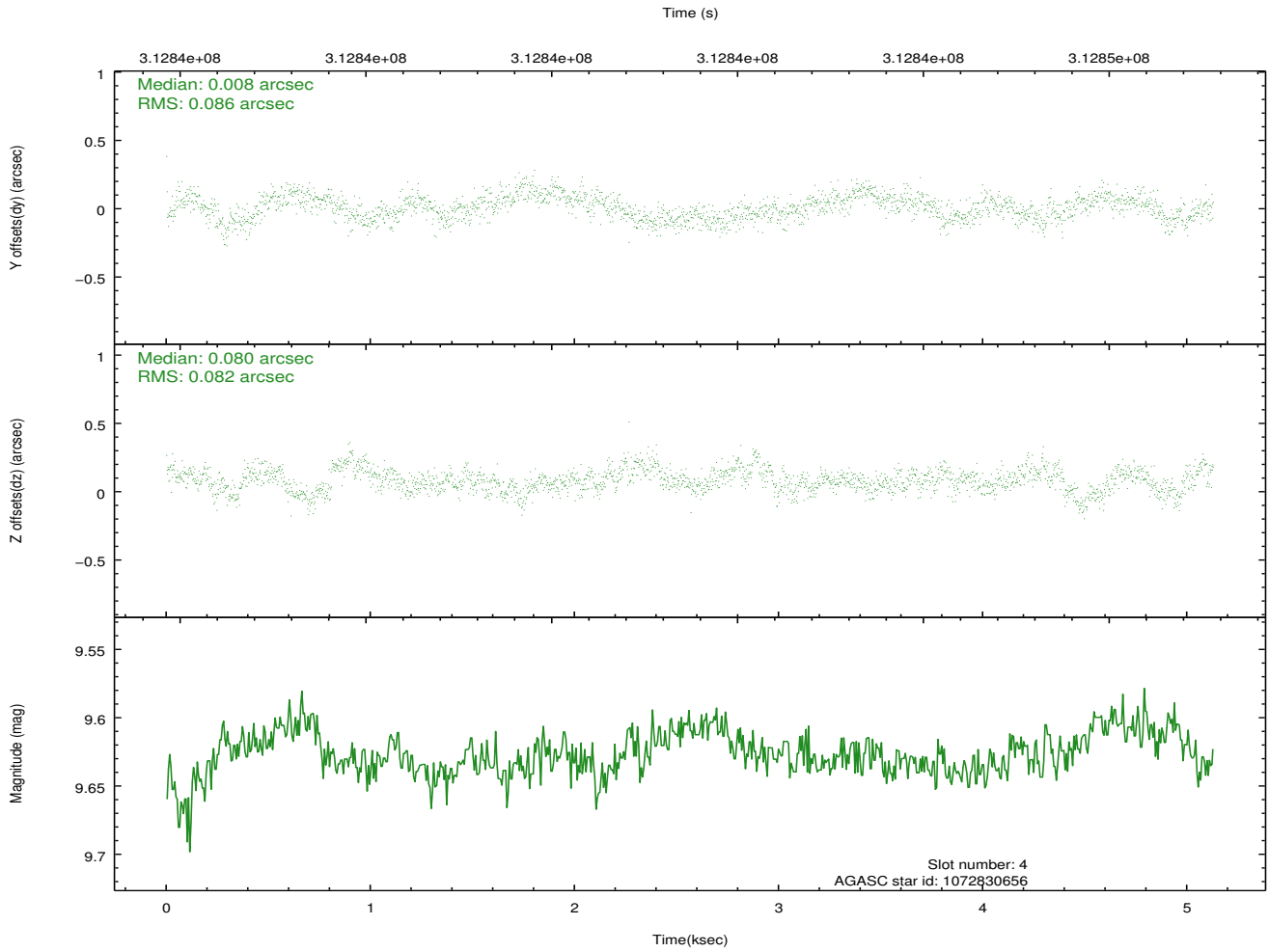
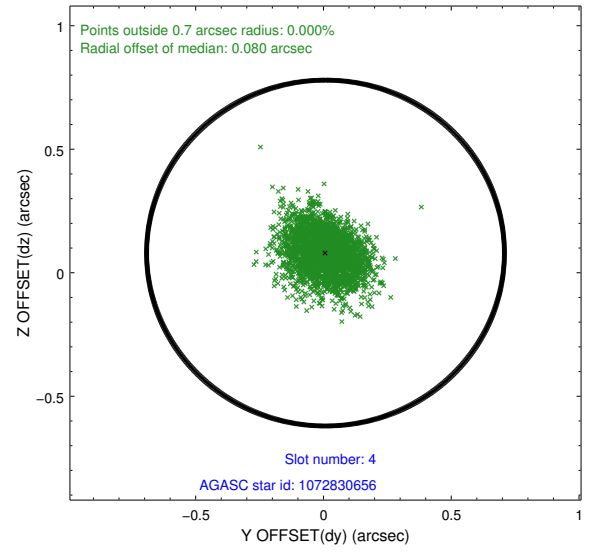
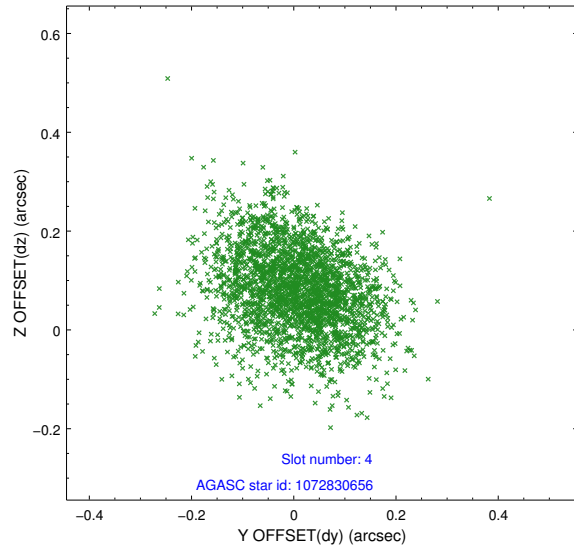
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|-------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-4 | 7.15 | 1251 | 0.162 | 0.023 | 0.009 | 0.017 | 0.000000 | 0.000000 | 2146.59 | 1061.00 |
| 1 | FID | ACIS-I-5 | 7.22 | 1251 | -0.276 | 0.015 | 0.007 | 0.017 | 0.000000 | 0.000000 | -1820.29 | 1059.53 |
| 2 | FID | ACIS-I-6 | 7.23 | 1251 | 0.014 | 0.030 | 0.009 | 0.016 | 0.000000 | 0.000000 | 390.74 | 1703.87 |
| 3 | GUIDE | 1072307584 | 9.13 | 2495 | -0.117 | -0.112 | 0.100 | 0.210 | 147.337013 | -46.819668 | 2285.16 | 342.85 |
| 4 | GUIDE | 1072830656 | 9.63 | 2498 | 0.008 | 0.080 | 0.127 | 0.204 | 147.390603 | -47.237092 | 933.23 | -324.13 |
| 5 | GUIDE | 1072833160 | 9.36 | 2499 | 0.000 | 0.063 | 0.116 | 0.189 | 147.594335 | -47.479465 | 298.24 | -1102.41 |
| 6 | GUIDE | 1072841688 | 8.95 | 2500 | -0.075 | 0.181 | 0.086 | 0.134 | 147.873235 | -47.296350 | 1156.77 | -1501.59 |
| 7 | GUIDE | 1072828672 | 10.04 | 2498 | 0.202 | -0.201 | 0.148 | 0.239 | 146.457211 | -47.665957 | -1338.22 | 1220.29 |

2.4 Star Slots

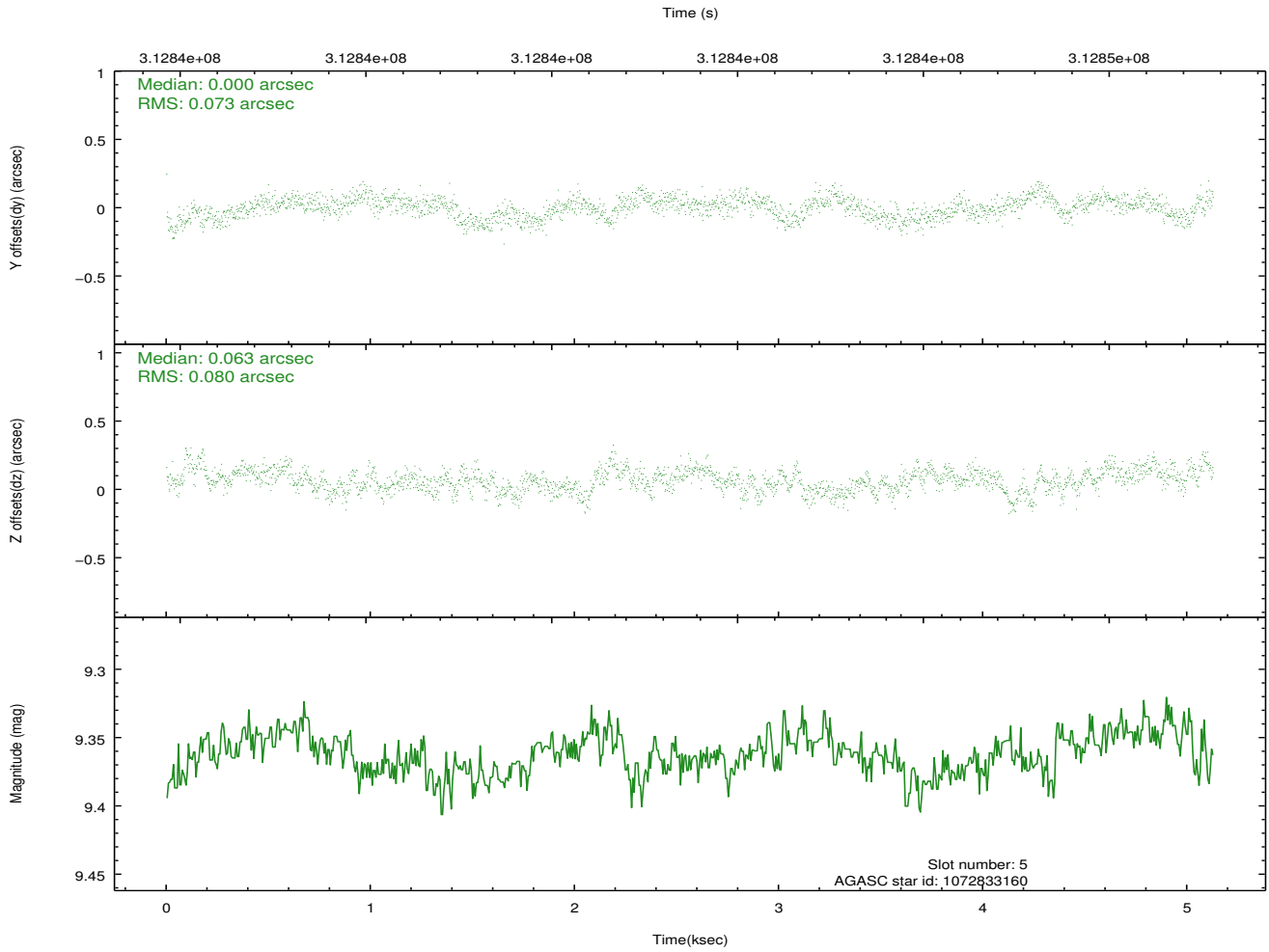
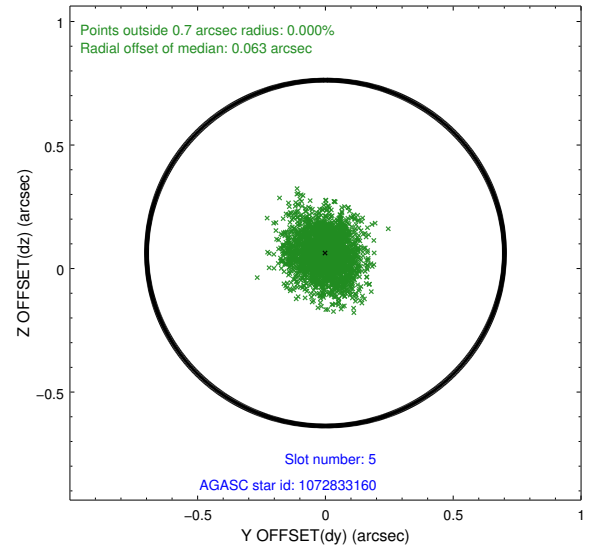
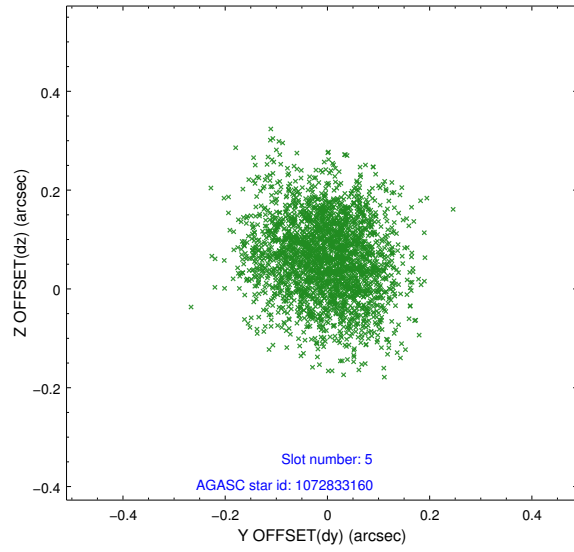
2.4.1 Slot 3



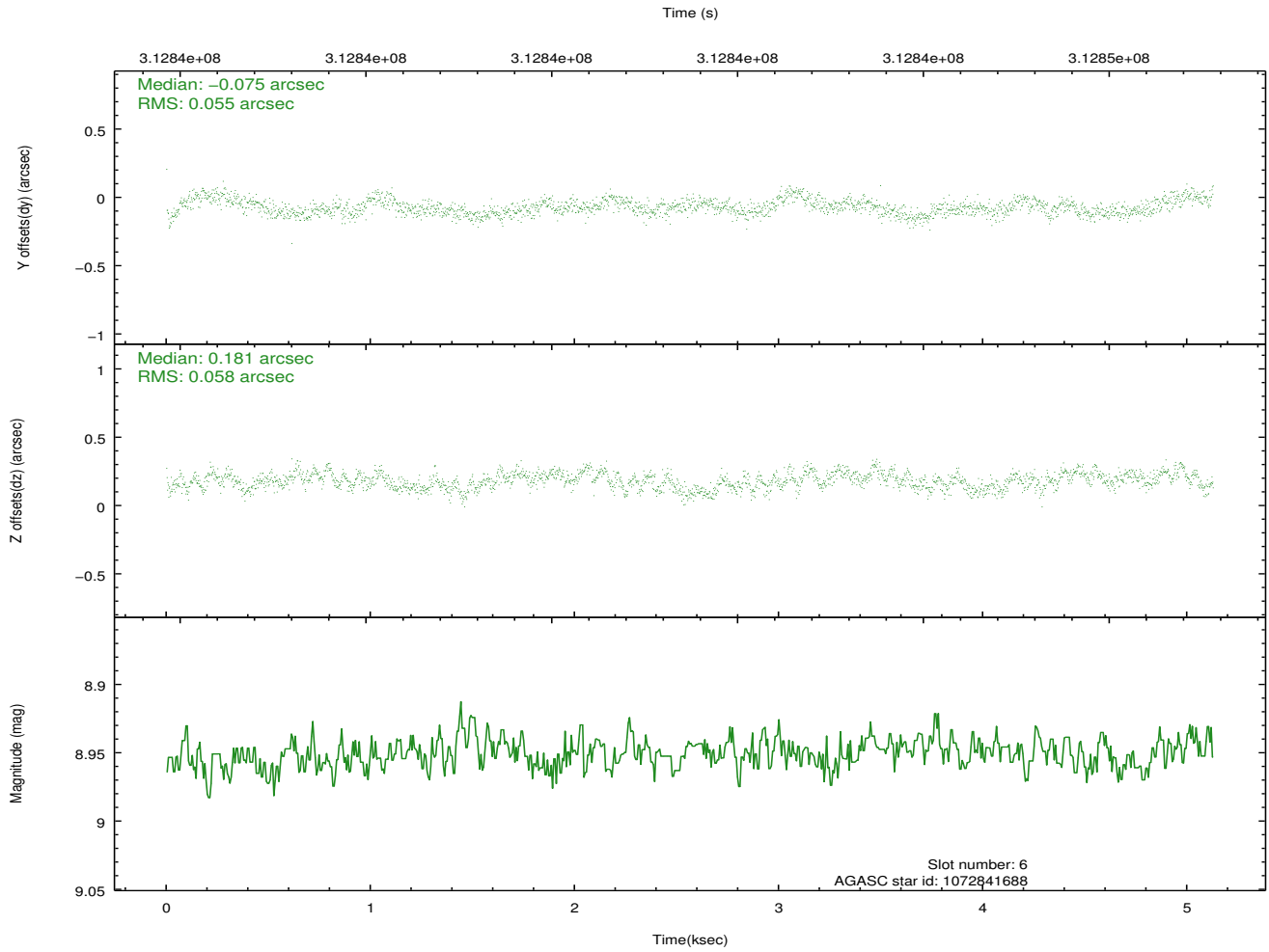
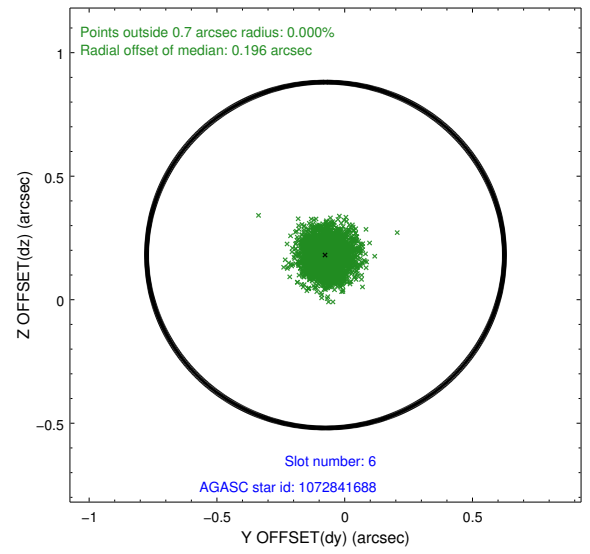
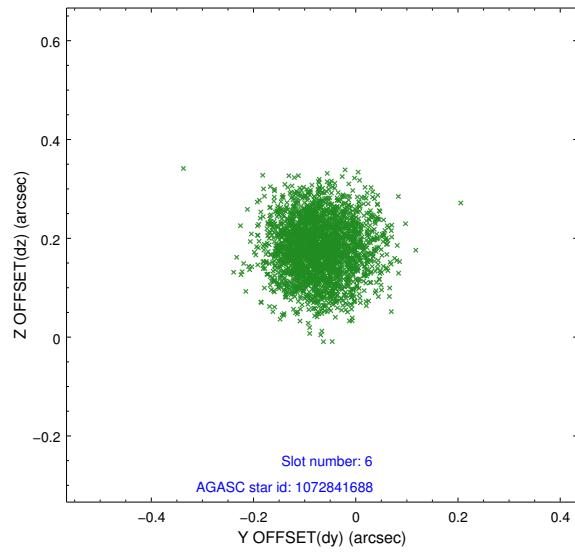
2.4.2 Slot 4



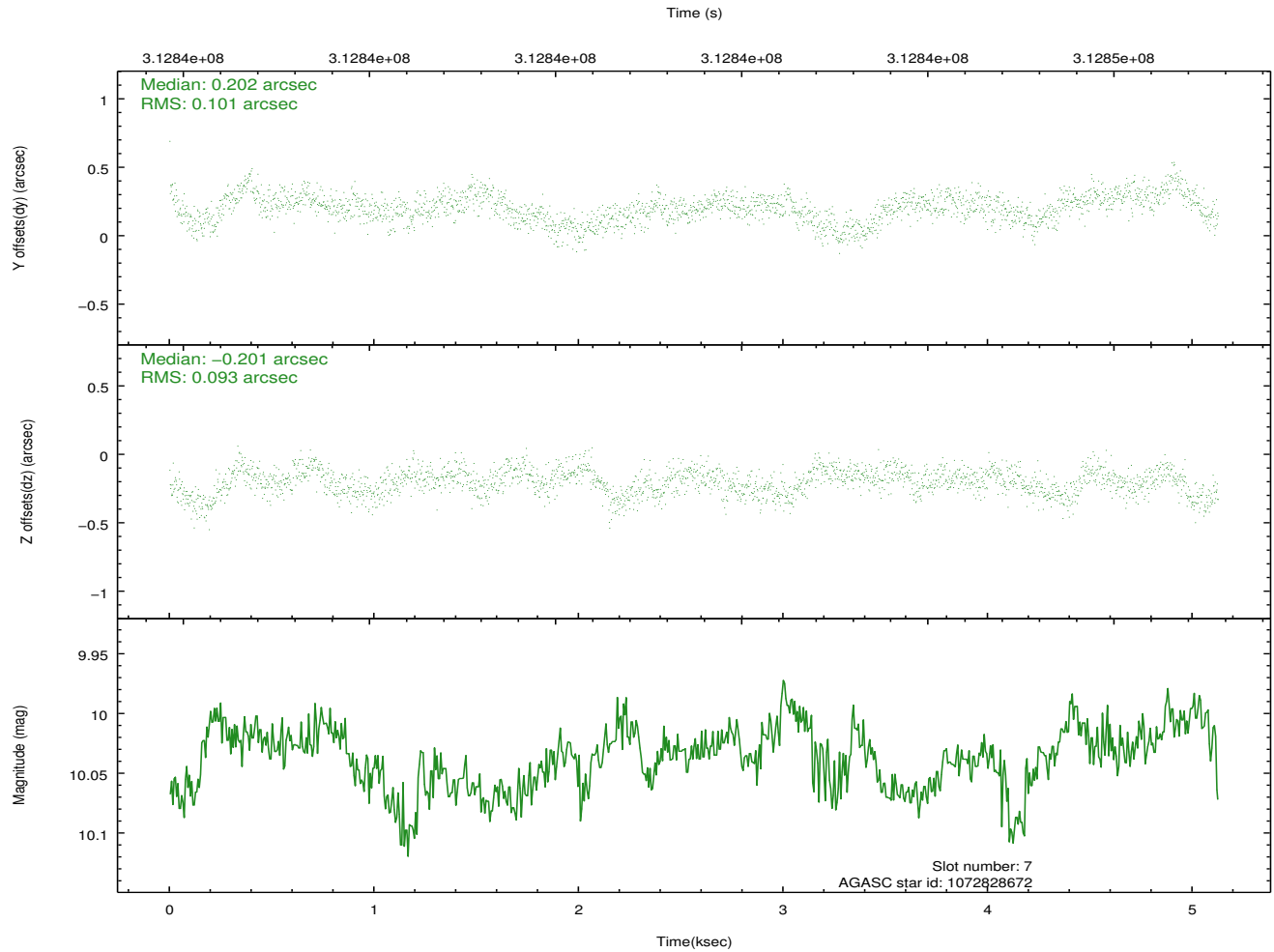
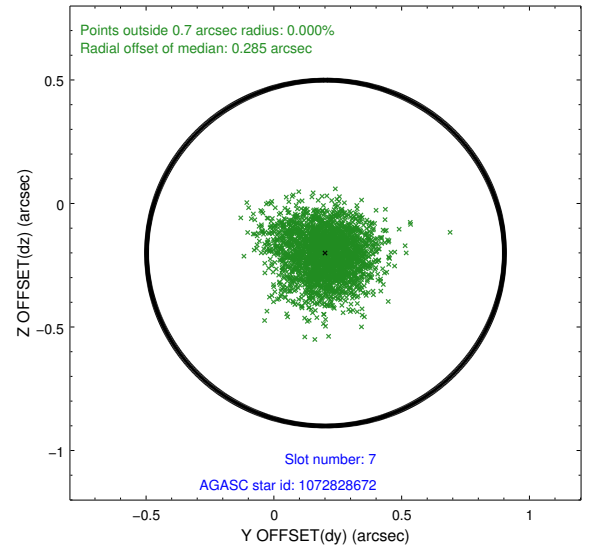
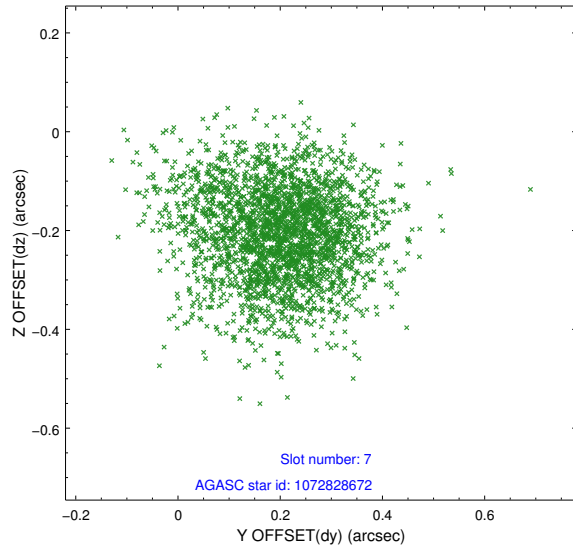
2.4.3 Slot 5



2.4.4 Slot 6

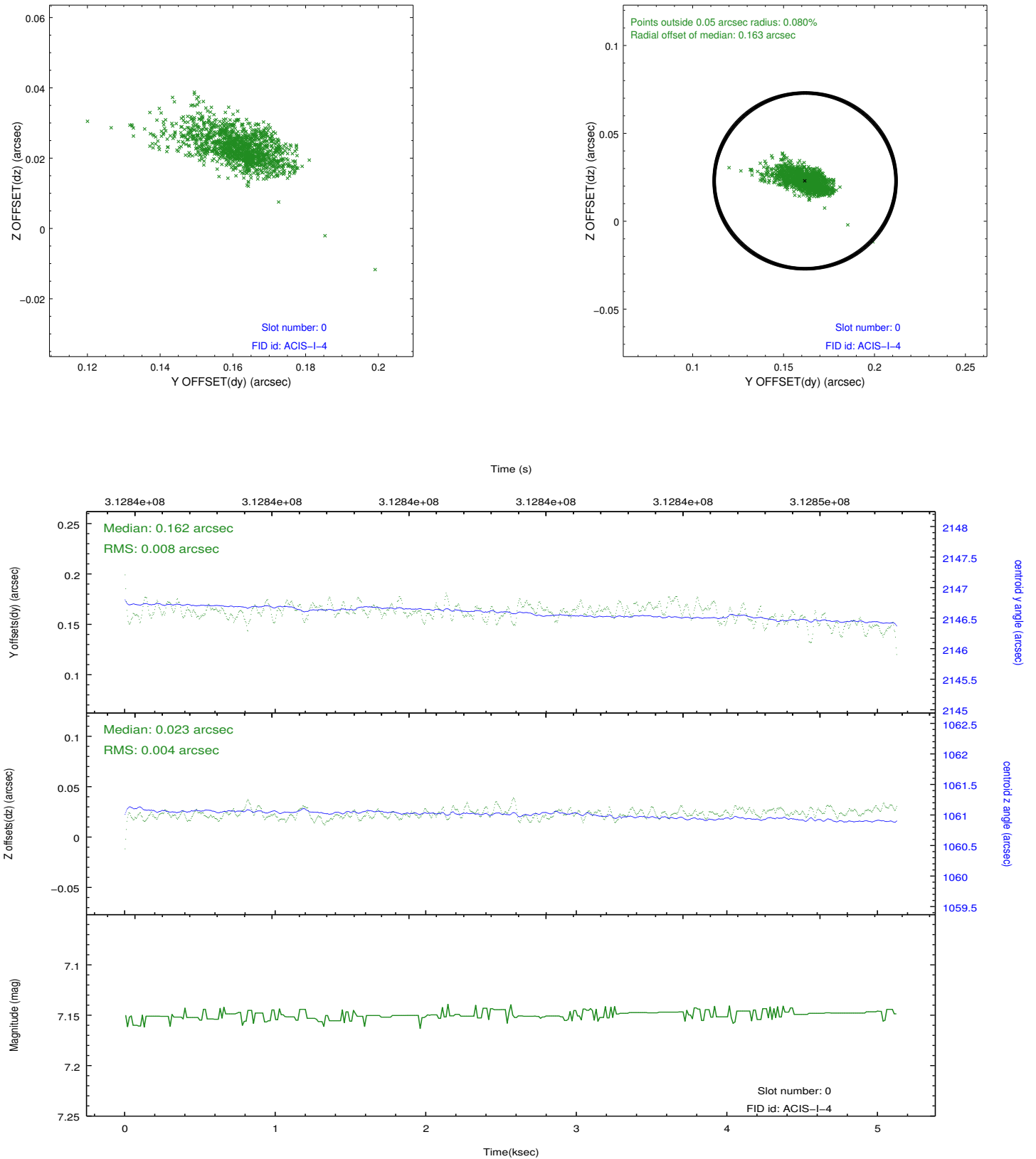


2.4.5 Slot 7

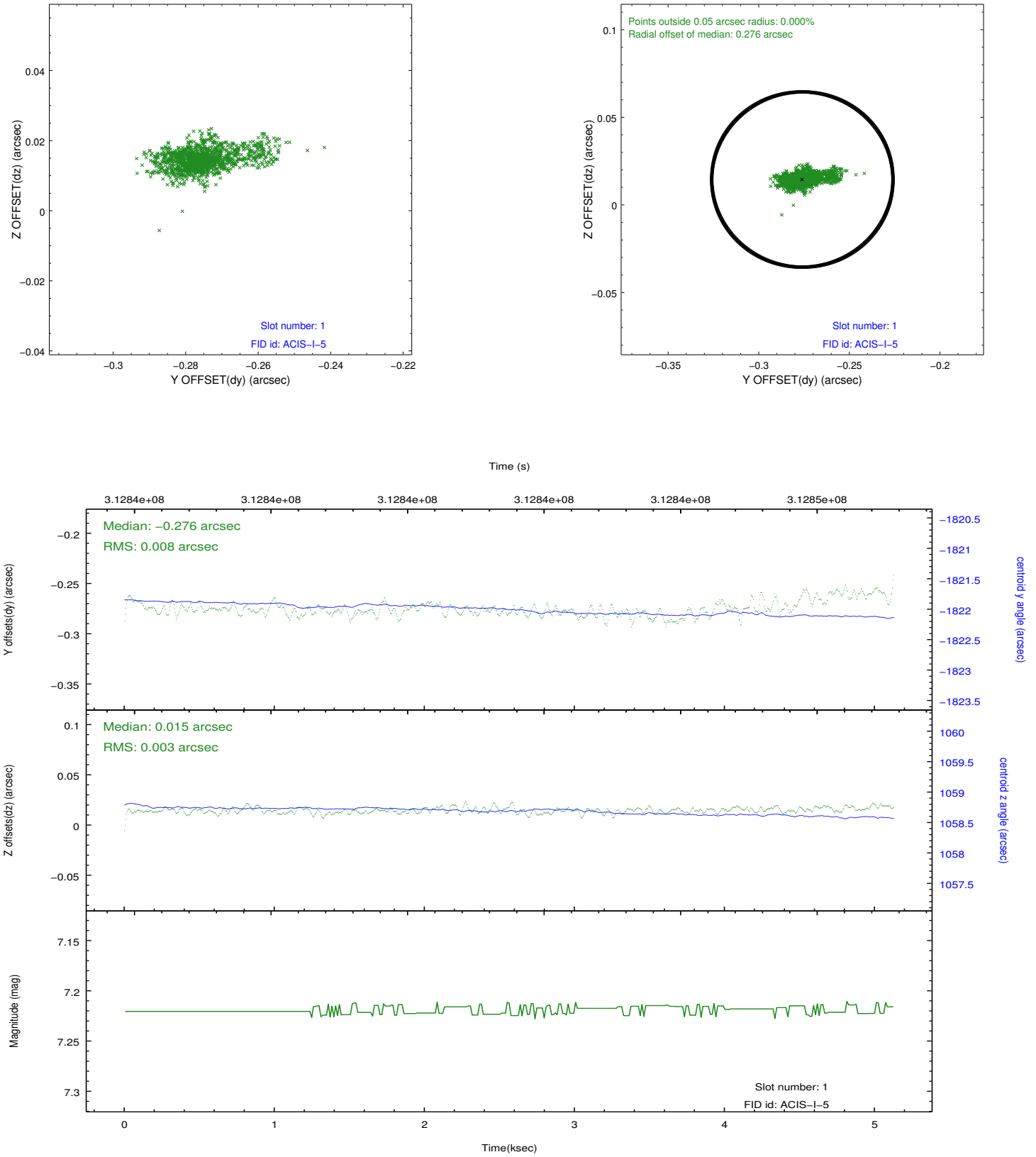


2.5 FID Slots

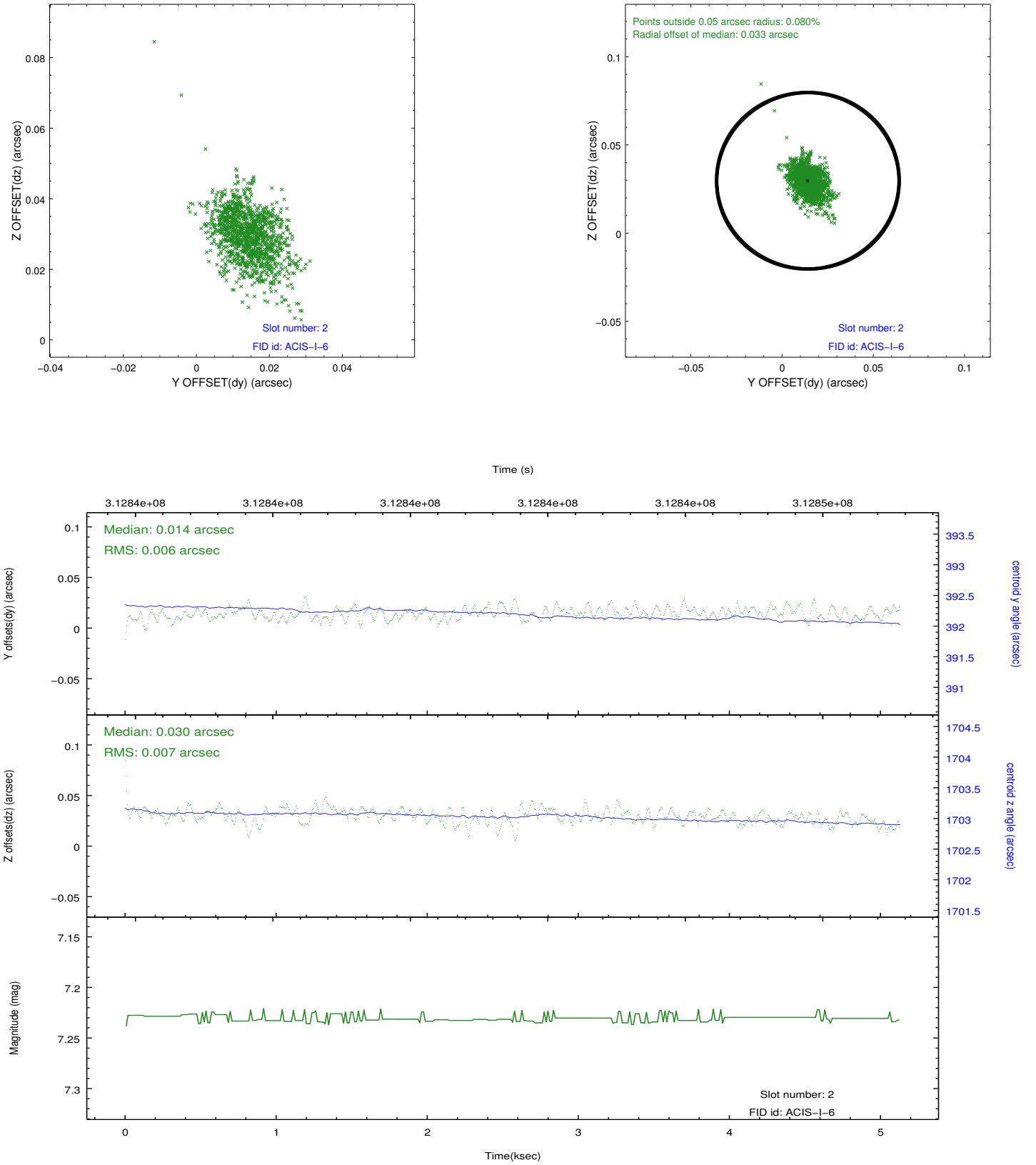
2.5.1 Slot 0



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) | 2012.05.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.11999998 |

A.2 Comments

Joint proposal with NOAO.