

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2259 - L2 Version 3
Chandra X-Ray Center

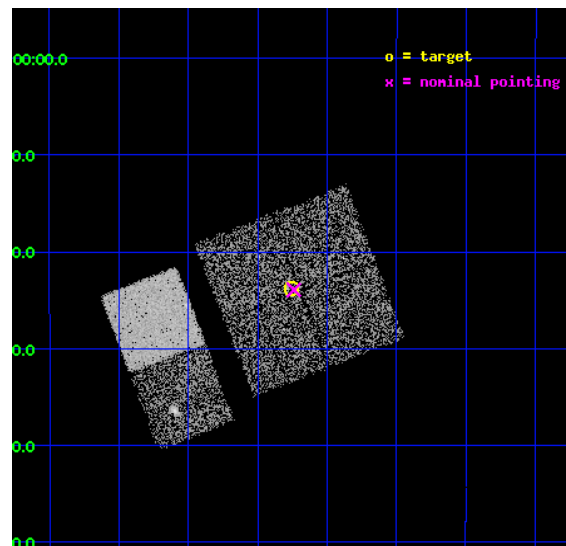
L2 Processing Date : Sep 16 2012

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1 Front

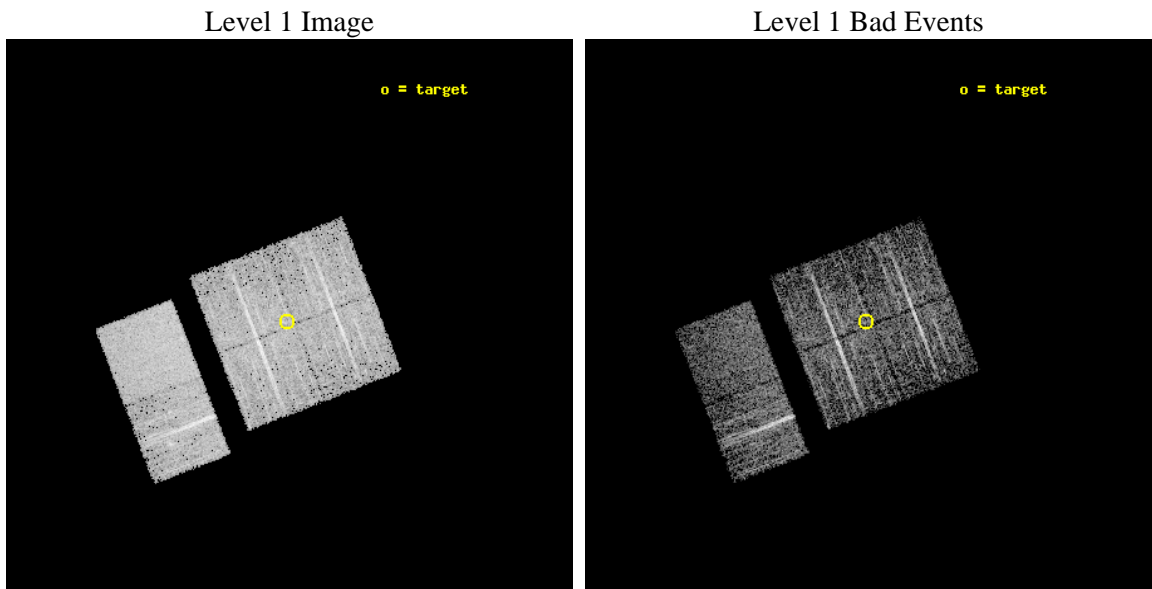
| | | |
|----------|---|---|
| seq_num | 900086 | Sequence number |
| obs_id | 2259 | Observation id |
| title | CHANDRA OBSERVATION OF HARD X-RAY SOURCES DISCOVERED WITH ASCA | Pro |
| observer | Dr Yoshihiro Ueda | Principal investigator |
| object | AGX~J103244-1424 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 158.188333 | Observer's specified target RA [deg] |
| dec_targ | -14.395694 | Observer's specified target Dec [deg] |
| ra_nom | 158.184834072 | Nominal RA [deg] |
| dec_nom | -14.399000435243 | Nominal Dec [deg] |
| roll_nom | 248.88760815278 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4454.4000041336 | Sum of GTIs [s] |
| livetime | 4397.9957091636 | Livetime [s] |
| ontime0 | 4454.3222056627 | Sum of GTIs [s] |
| ontime1 | 4454.363245666 | Sum of GTIs [s] |
| ontime2 | 4454.4000041336 | Sum of GTIs [s] |
| ontime3 | 4454.4000041336 | Sum of GTIs [s] |
| ontime6 | 4454.4000041336 | Sum of GTIs [s] |
| ontime7 | 4454.4000041336 | Sum of GTIs [s] |
| l2events | 28665 | Number of level 2 events |



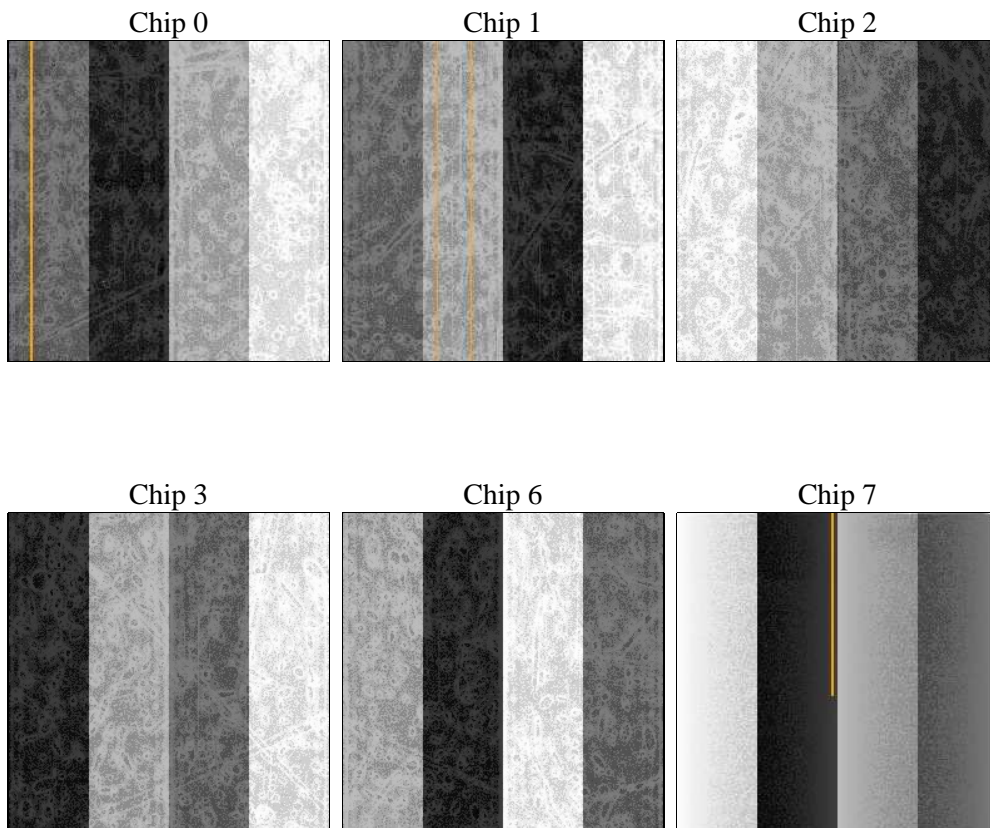
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4500.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 4454.4000041336 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime0 | 4454.3222056627 | Sum of GTIs [s] |
| date | 2012-09-17T00:52:53 | Date and time of file creation | ontime1 | 4454.363245666 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 4454.4000041336 | Sum of GTIs [s] |
| | | | ontime3 | 4454.4000041336 | Sum of GTIs [s] |
| | | | ontime6 | 4454.4000041336 | Sum of GTIs [s] |
| | | | ontime7 | 4454.4000041336 | Sum of GTIs [s] |
| | | | l1events | 175026 | Number of level 1 events |

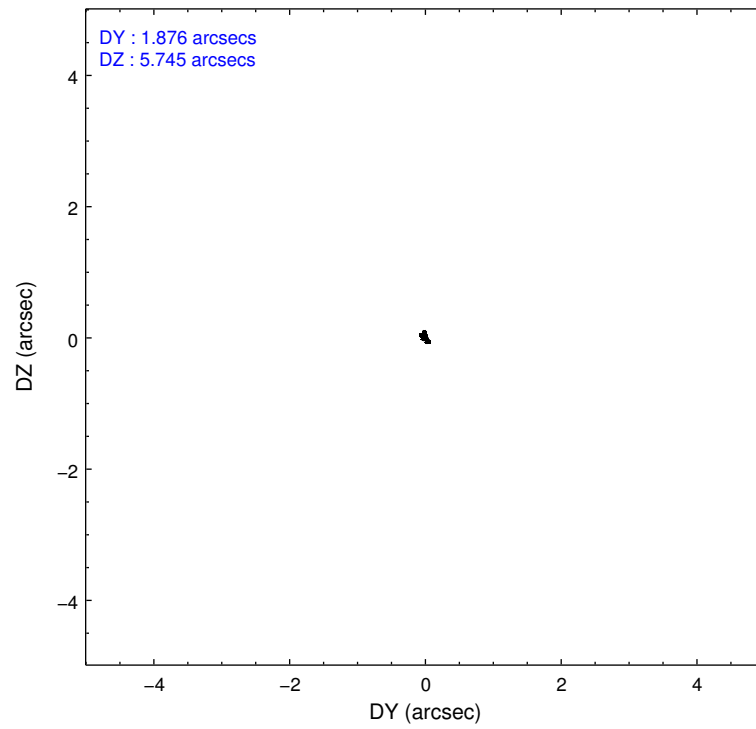
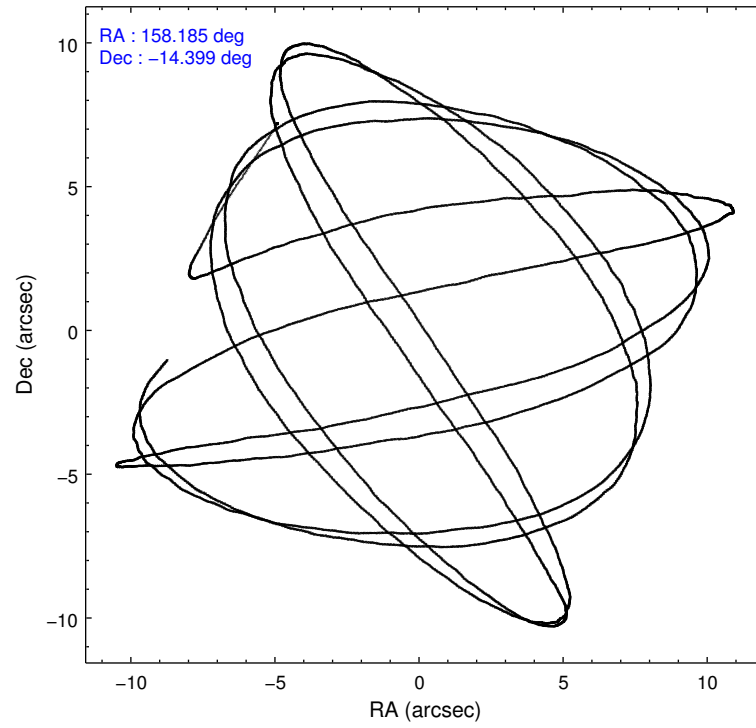
2.1.4 Events

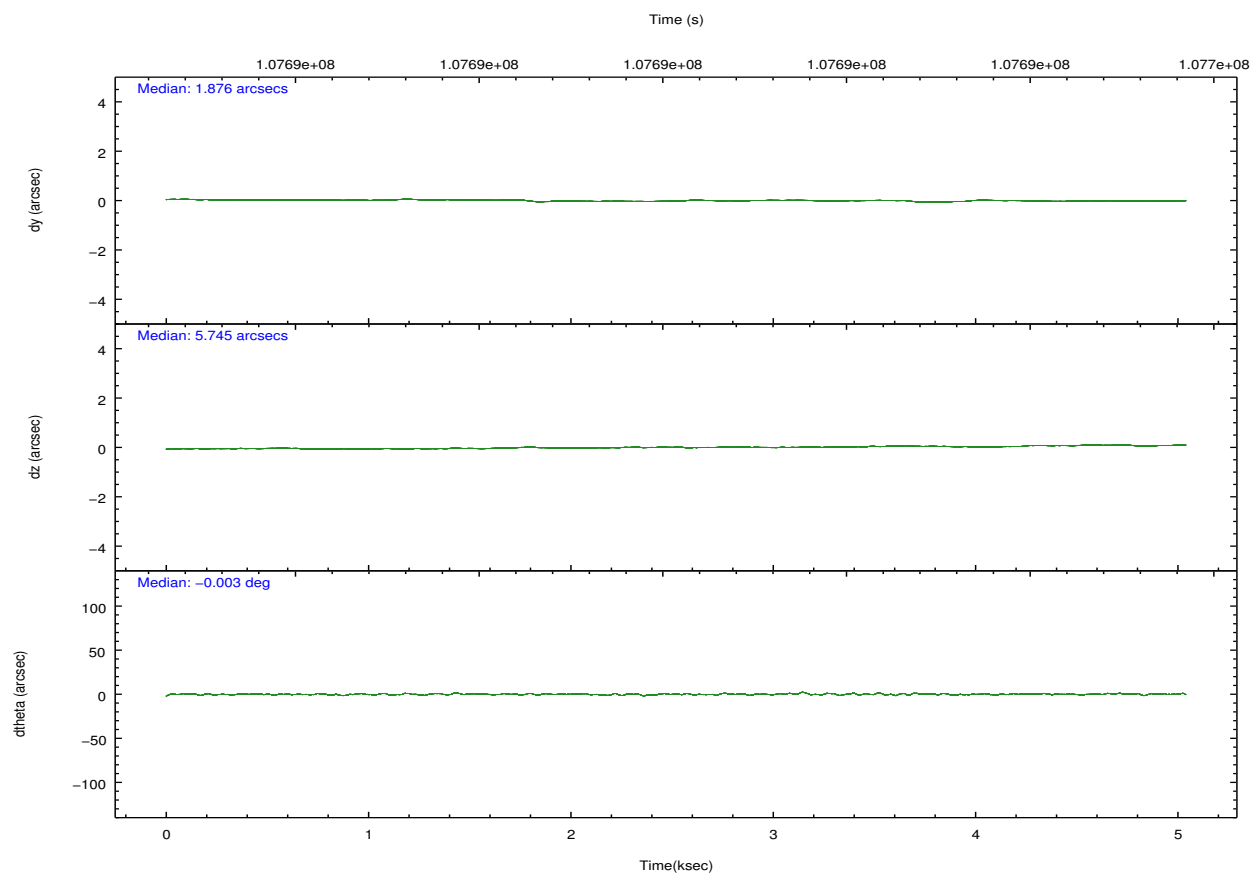
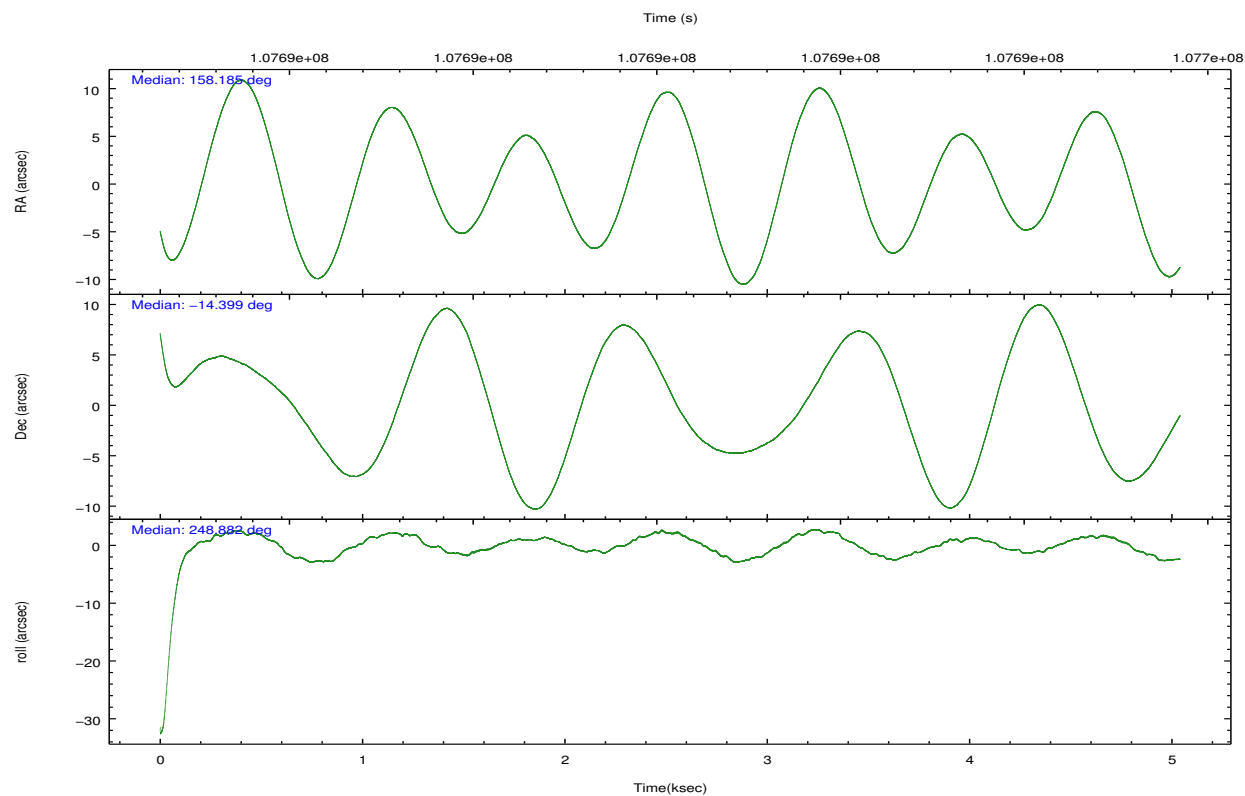
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 26194 | 25981 | 28897 | 27238 | 30487 | 36229 | grade 0 events | 1404 | 1414 | 1307 | 1376 | 1556 | 1317 |
| rejected events | 22950 | 22576 | 25796 | 23993 | 26868 | 21298 | | 5% | 5% | 4% | 5% | 5% | 3% |
| rejected % | 87% | 86% | 89% | 88% | 88% | 58% | grade 1 events | 15 | 12 | 13 | 8 | 13 | 33 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 694 | 675 | 618 | 664 | 722 | 2950 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 8% |
| | | | | | | | grade 3 events | 313 | 344 | 328 | 290 | 324 | 1360 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 308 | 350 | 308 | 313 | 320 | 1330 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 993 | 1113 | 974 | 1077 | 1229 | 3520 |
| | | | | | | | | 3% | 4% | 3% | 3% | 4% | 9% |
| | | | | | | | grade 6 events | 531 | 629 | 544 | 609 | 701 | 7993 |
| | | | | | | | | 2% | 2% | 1% | 2% | 2% | 22% |
| | | | | | | | grade 7 events | 21936 | 21444 | 24805 | 22901 | 25622 | 17726 |
| | | | | | | | | 83% | 82% | 85% | 84% | 84% | 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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 158.180516 | 158.1848340720048 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -14.371988 | -14.3990004352434 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 248.677900 | 248.8876081527812 | [s] Primary exposure time | 0.000000 | 3.2 |
| [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) | 107690091.184000 | 107688958.14109 | | | |
| Observation start date | 2001-05-31T09:53:47 | 2001-05-31T09:35:58 | | | |
| [s] Observation end time (MET) | 107694591.184000 | 107695176.30384 | | | |
| Observation end date | 2001-05-31T11:08:47 | 2001-05-31T11:19:36 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



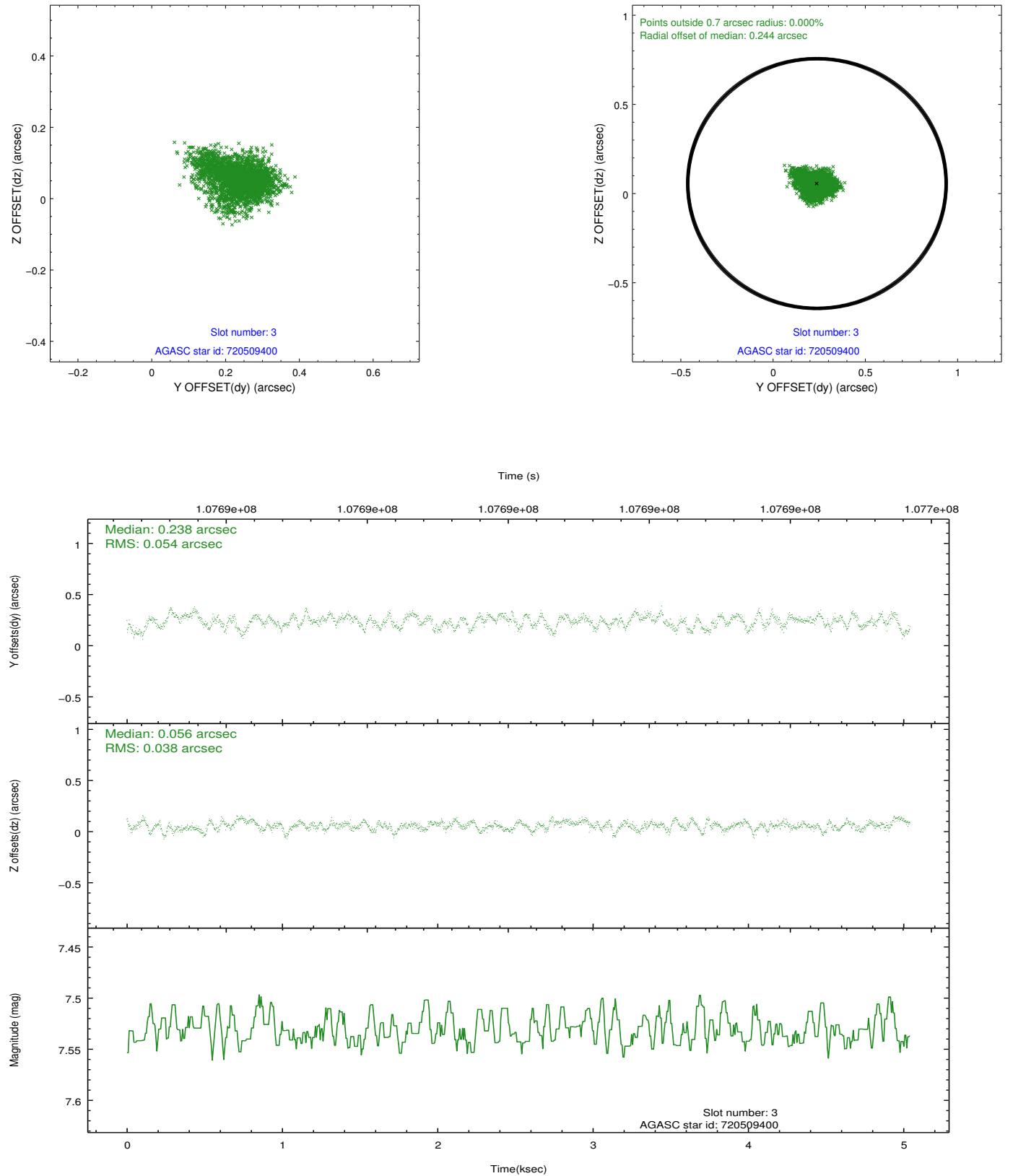


Slot Statistics

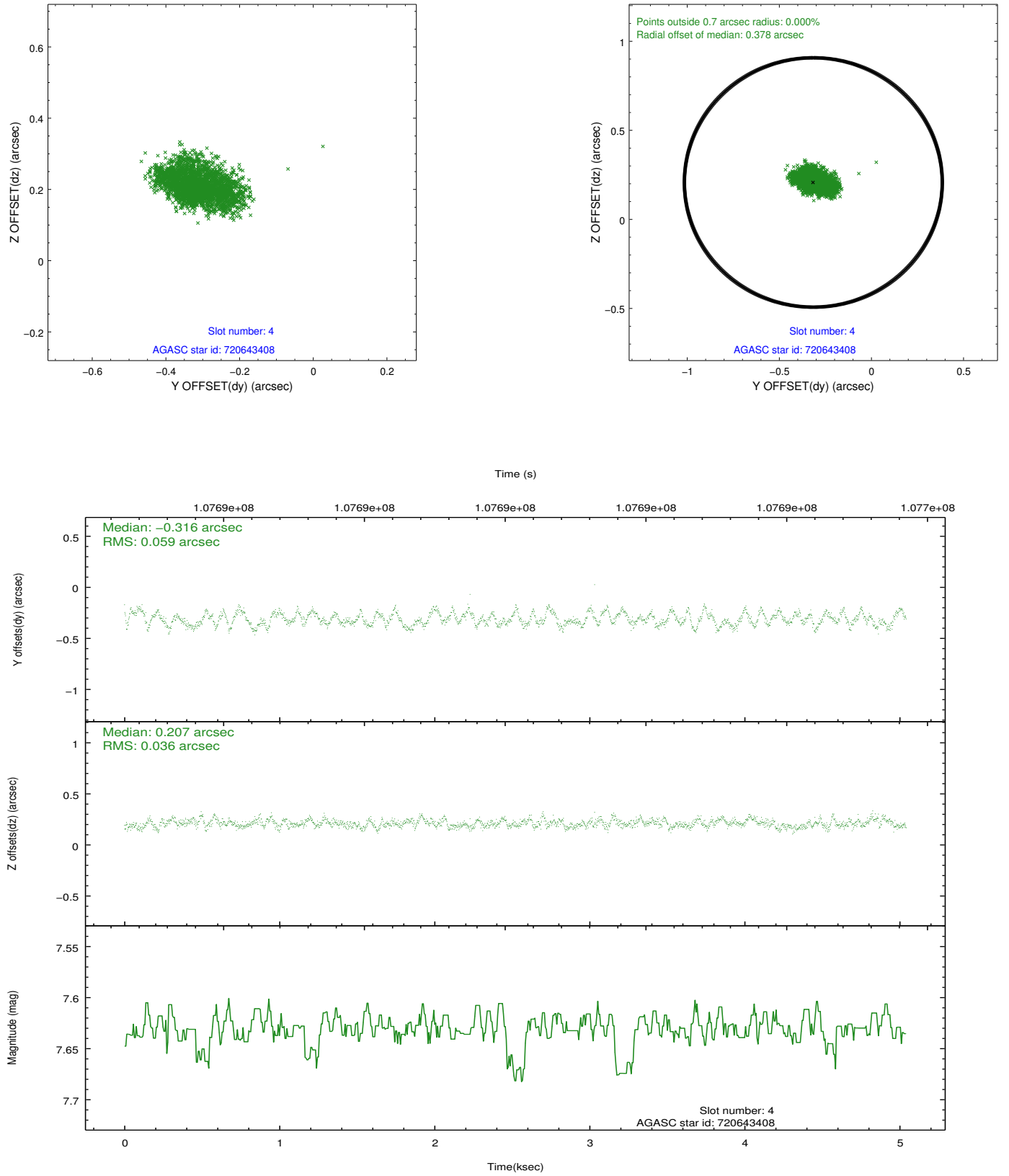
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.15 | 1230 | -0.037 | -0.064 | 0.009 | 0.015 | 0.000000 | 0.000000 | -756.25 | -835.54 |
| 1 | FID | ACIS-I-4 | 7.18 | 1230 | -0.013 | 0.046 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2157.27 | 1070.17 |
| 2 | FID | ACIS-I-5 | 7.23 | 1230 | -0.050 | 0.086 | 0.008 | 0.014 | 0.000000 | 0.000000 | -1808.55 | 1069.39 |
| 3 | GUIDE | 720509400 | 7.53 | 2460 | 0.238 | 0.056 | 0.070 | 0.116 | 157.907798 | -14.885082 | 2066.57 | -211.02 |
| 4 | GUIDE | 720643408 | 7.63 | 2459 | -0.316 | 0.207 | 0.075 | 0.117 | 158.931051 | -13.956644 | -2341.95 | 1901.22 |
| 5 | GUIDE | 720509240 | 8.34 | 2460 | 0.046 | 0.051 | 0.055 | 0.089 | 158.109581 | -14.390615 | 151.62 | -204.41 |
| 6 | GUIDE | 720508296 | 8.41 | 2459 | -0.000 | -0.115 | 0.060 | 0.102 | 157.542743 | -14.613903 | 1622.33 | -1751.13 |
| 7 | GUIDE | 720510528 | 8.94 | 2458 | 0.030 | -0.199 | 0.063 | 0.106 | 158.177312 | -14.502486 | 442.43 | 160.30 |

2.4 Star Slots

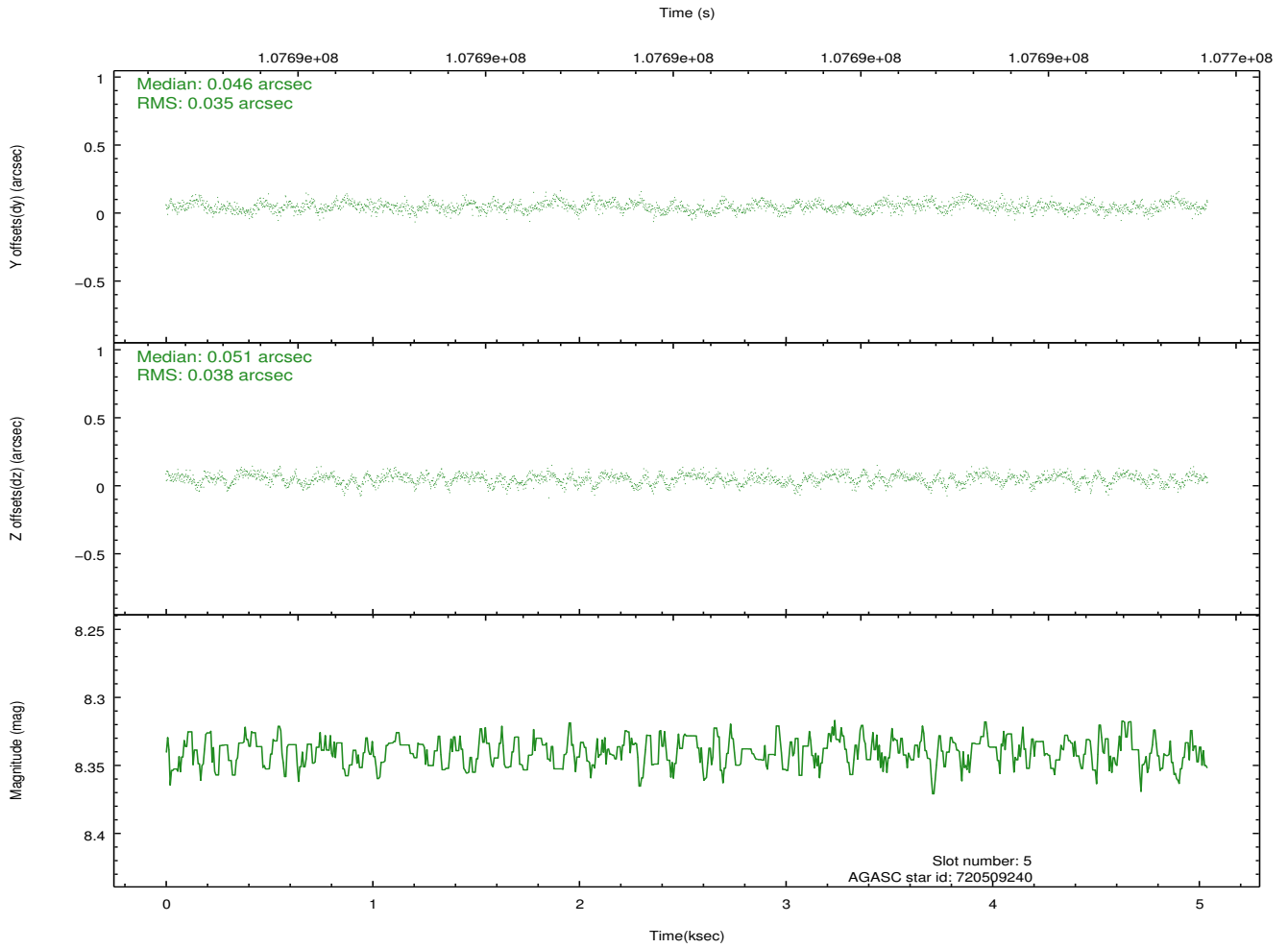
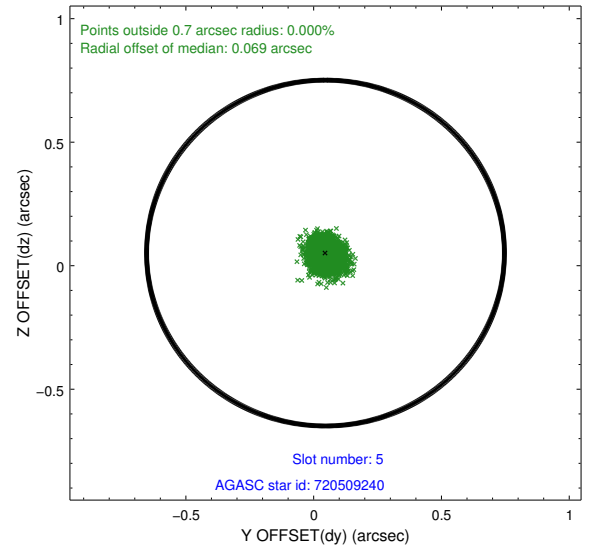
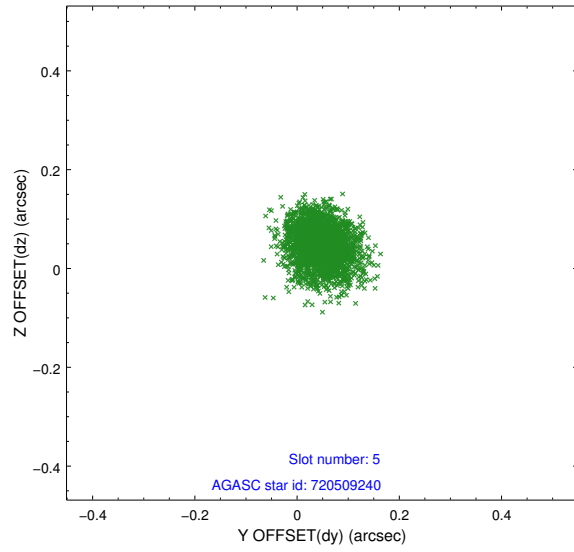
2.4.1 Slot 3



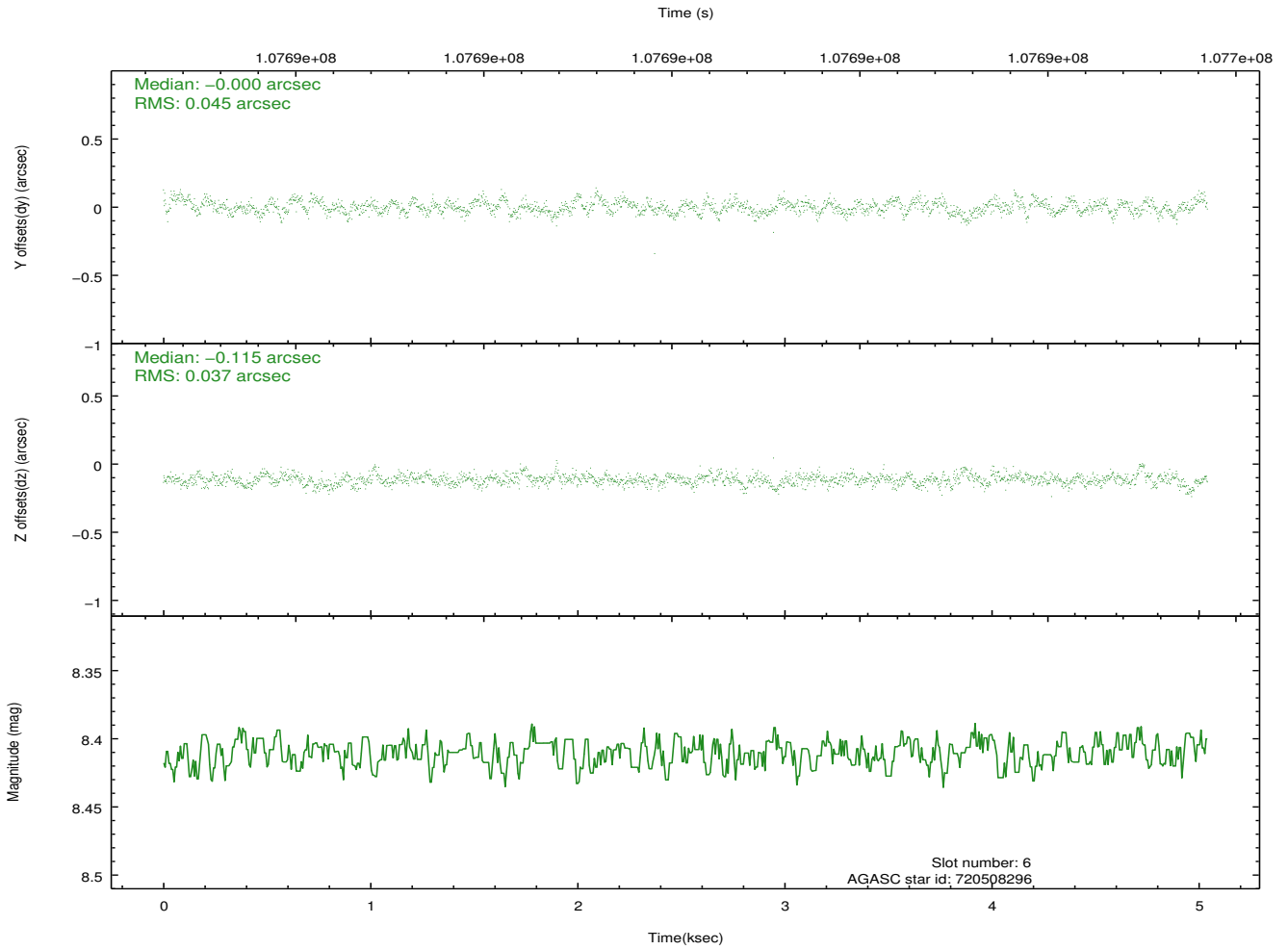
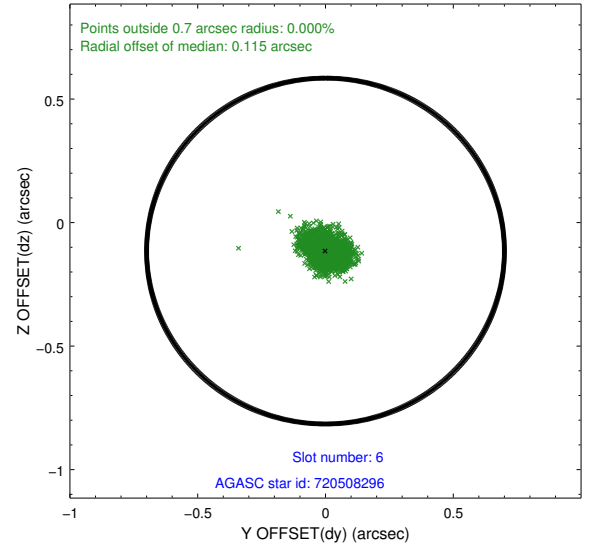
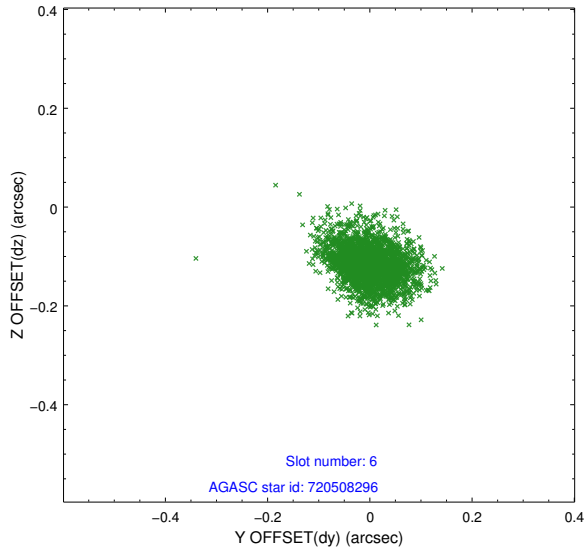
2.4.2 Slot 4



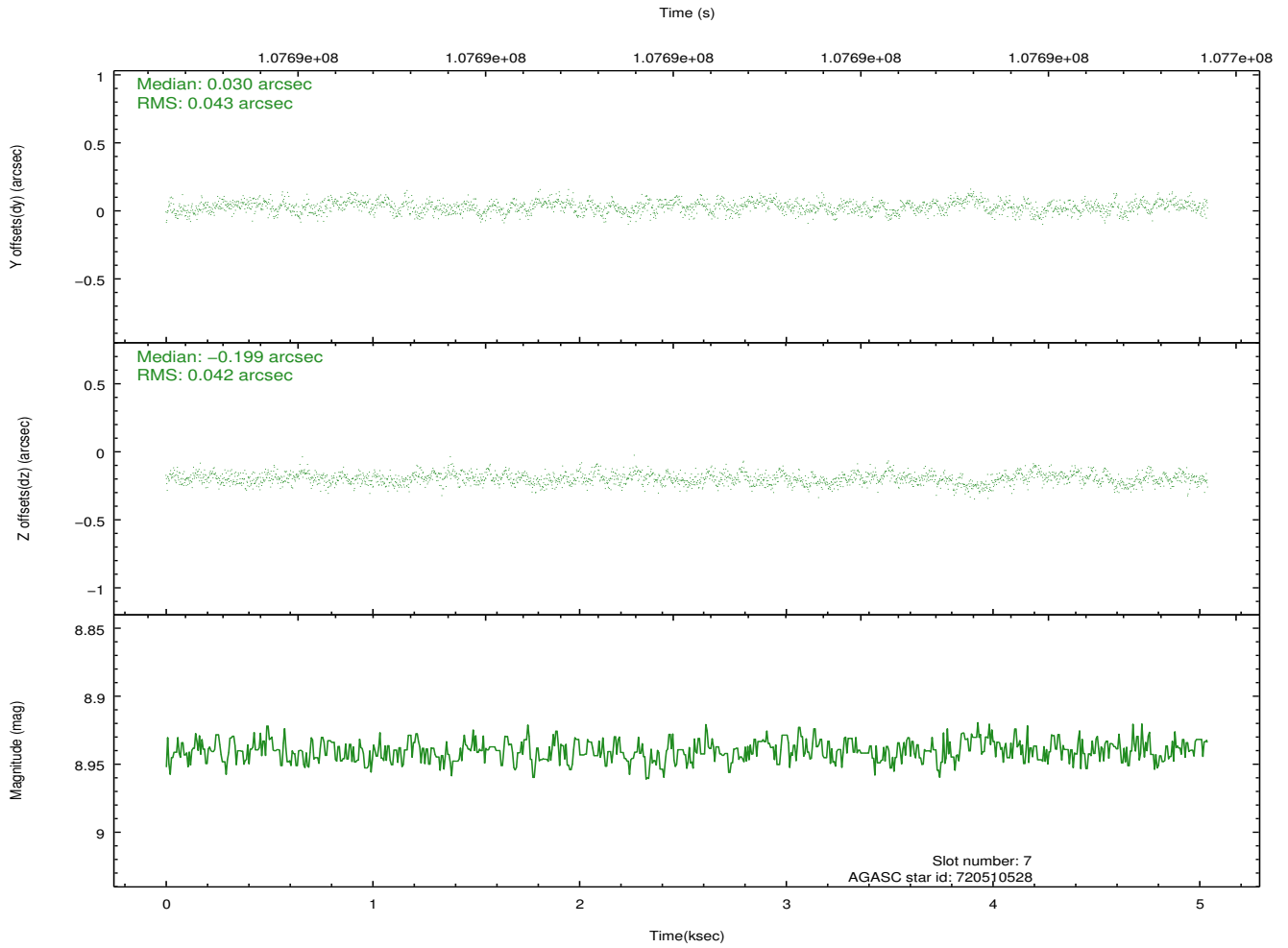
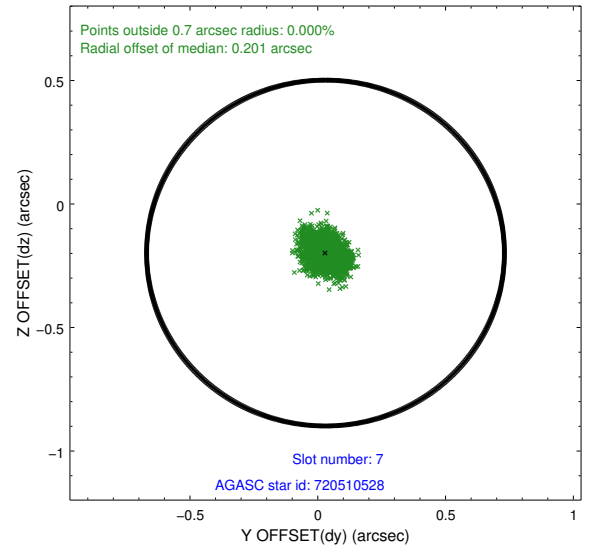
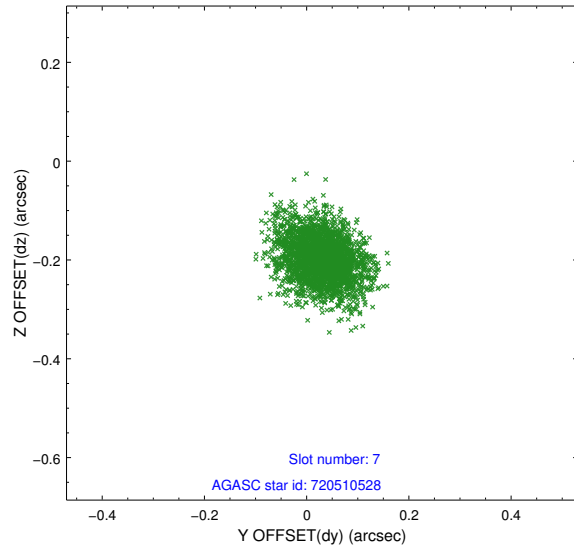
2.4.3 Slot 5



2.4.4 Slot 6

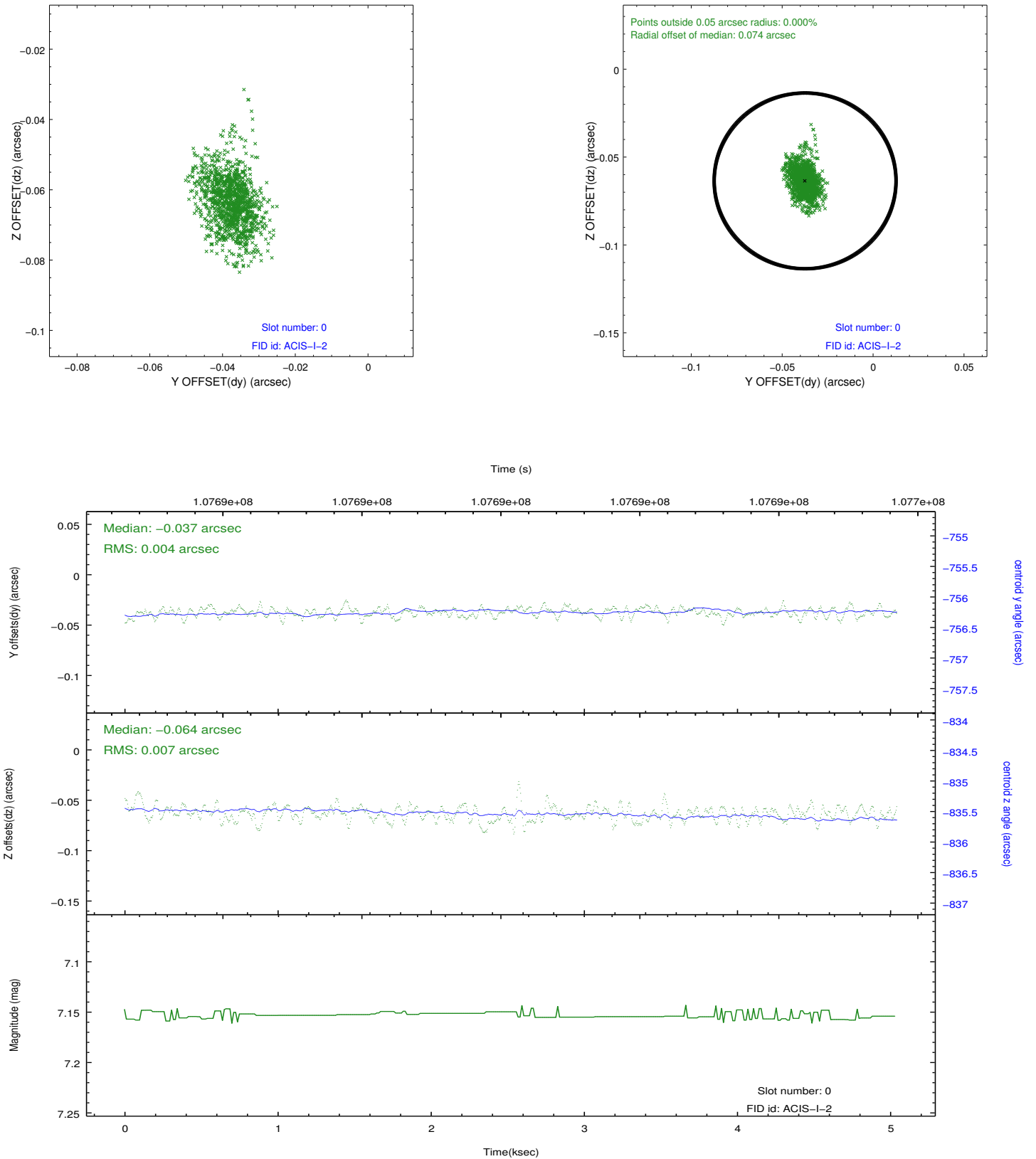


2.4.5 Slot 7

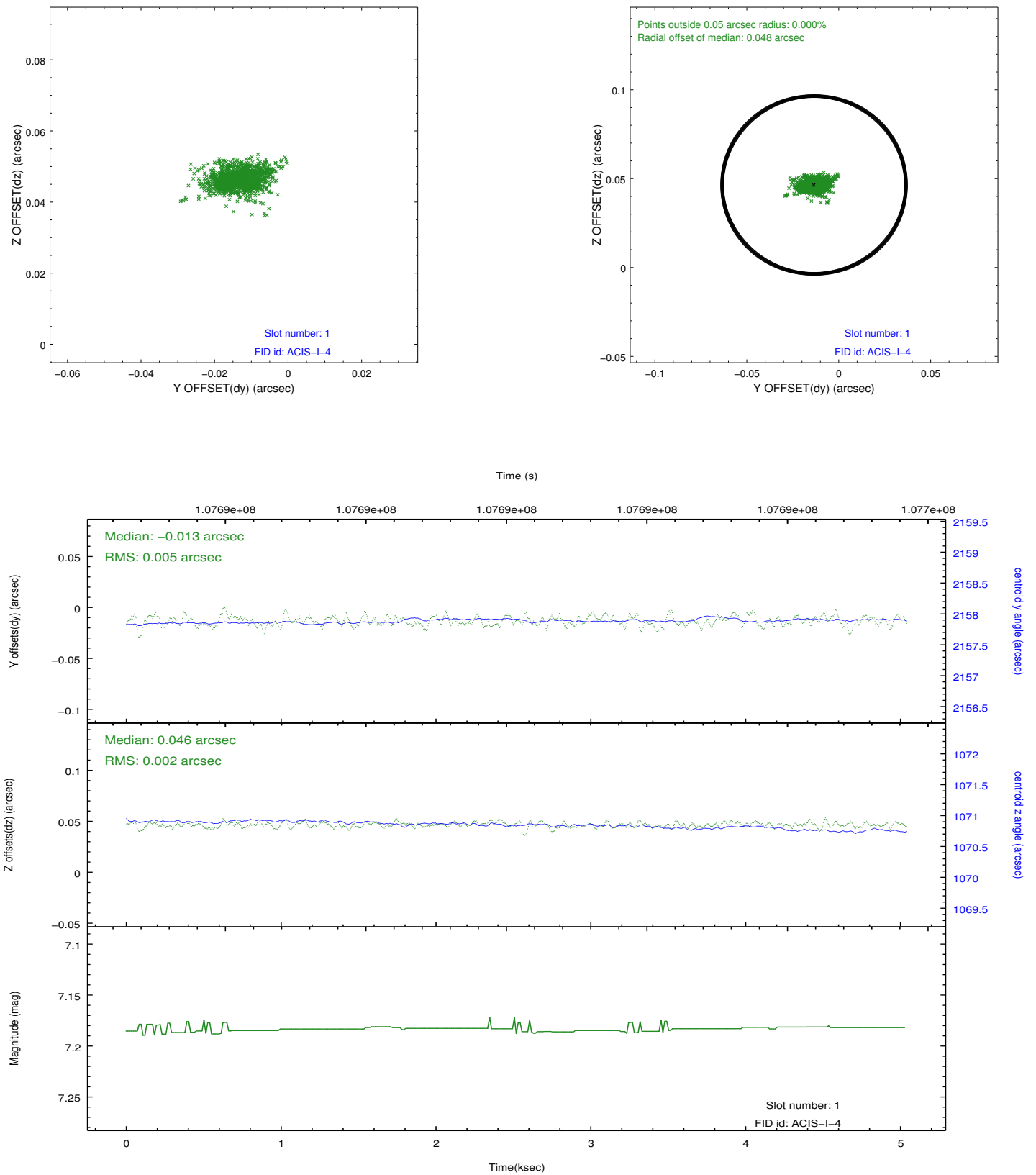


2.5 FID Slots

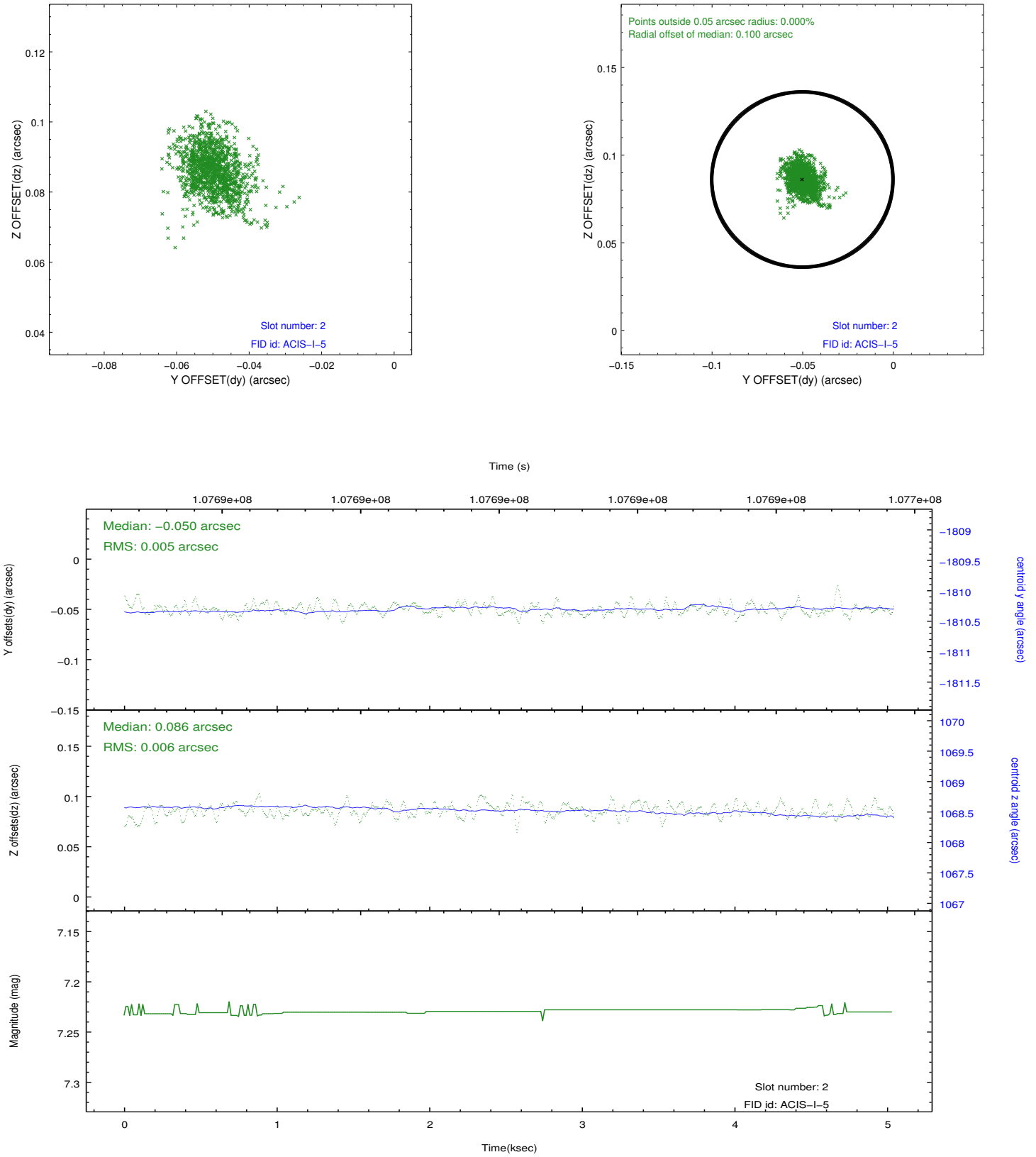
2.5.1 Slot 0



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) | 2012.09.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.5 |

A.2 Comments