

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4244 - L2 Version 3
Chandra X-Ray Center

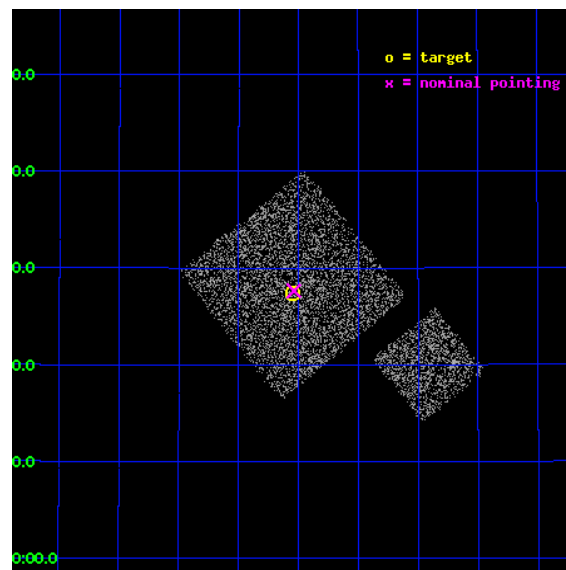
L2 Processing Date : Oct 26 2012

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1 Front

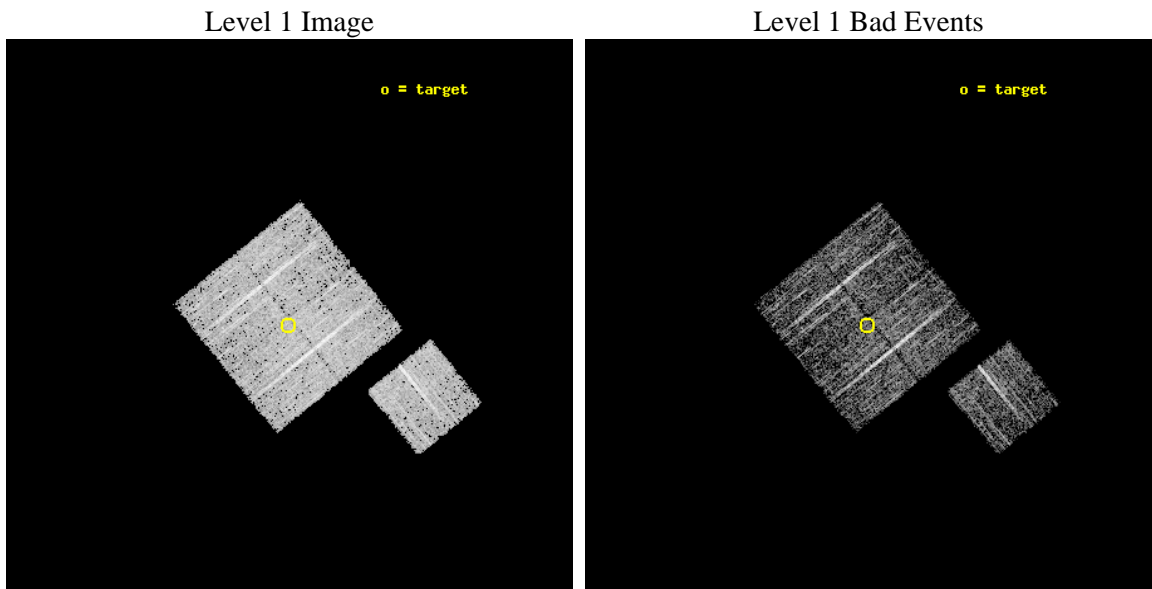
| | | |
|----------|---------------------------------------------------------------------------------------------------------|---------------------------------------------|
| seq_num | 900287 | Sequence number |
| obs_id | 4244 | Observation id |
| title | A CHANDRA WIDE-FIELD SURVEY TO MAP THE COSMIC WEB AND INVESTIGATE THE EVOLUTION OF NUCLEAR ACCRETION | Proposal title |
| observer | Dr. Christine Jones | Principal investigator |
| object | SD17 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 217.38708 | Observer's specified target RA [deg] |
| dec_targ | 33.456918 | Observer's specified target Dec [deg] |
| ra_nom | 217.38445671271 | Nominal RA [deg] |
| dec_nom | 33.460989145592 | Nominal Dec [deg] |
| roll_nom | 141.01014000723 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4578.3947474658 | Sum of GTIs [s] |
| livetime | 4518.574649525 | Livetime [s] |
| ontime0 | 4578.2716473639 | Sum of GTIs [s] |
| ontime1 | 4578.3126873672 | Sum of GTIs [s] |
| ontime2 | 4578.3537273705 | Sum of GTIs [s] |
| ontime3 | 4578.3947474658 | Sum of GTIs [s] |
| ontime6 | 4578.2306073606 | Sum of GTIs [s] |
| l2events | 9113 | Number of level 2 events |



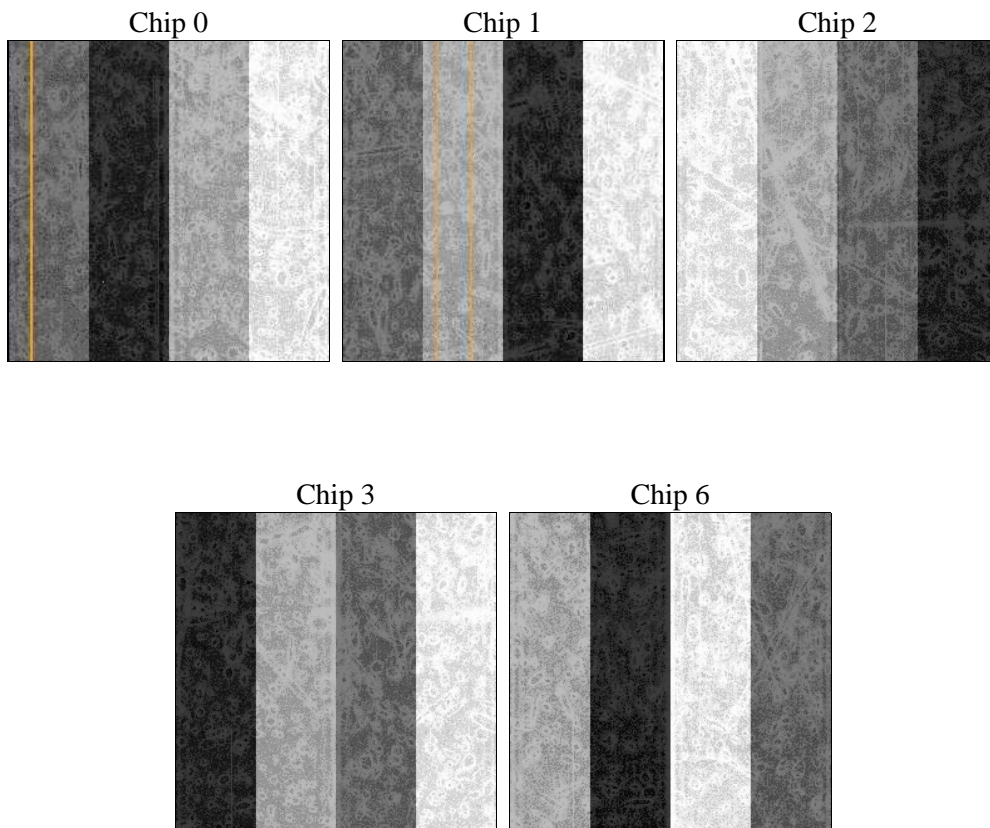
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-----------------------------------------|
| obi_num | 1 | Obi number | sched_exp_time | 4800.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 4578.3947474658 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 4578.2716473639 | Sum of GTIs [s] |
| date | 2012-10-26T00:15:15 | Date and time of file creation | ontime1 | 4578.3126873672 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 4578.3537273705 | Sum of GTIs [s] |
| | | | ontime3 | 4578.3947474658 | Sum of GTIs [s] |
| | | | ontime6 | 4578.2306073606 | Sum of GTIs [s] |
| | | | l1events | 116436 | Number of level 1 events |

2.1.4 Events

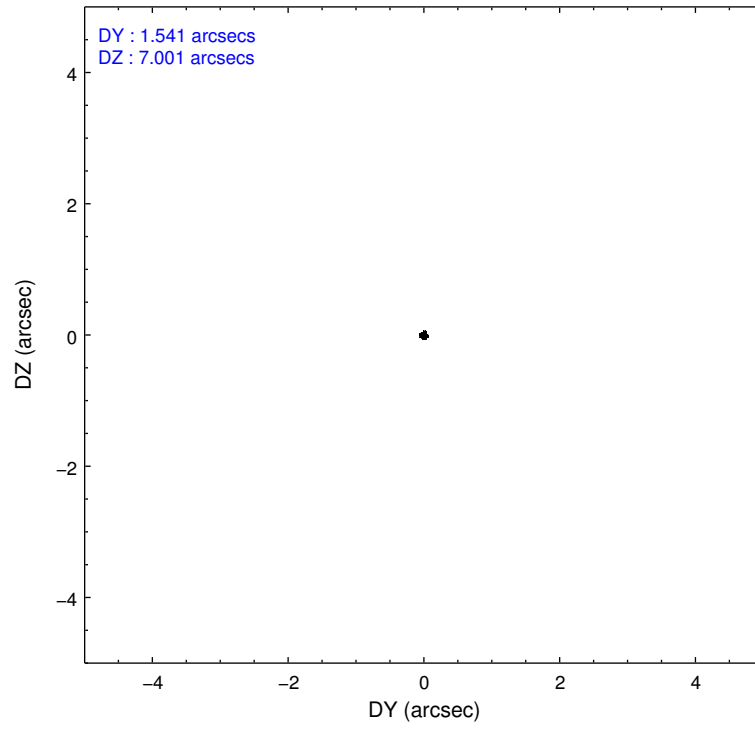
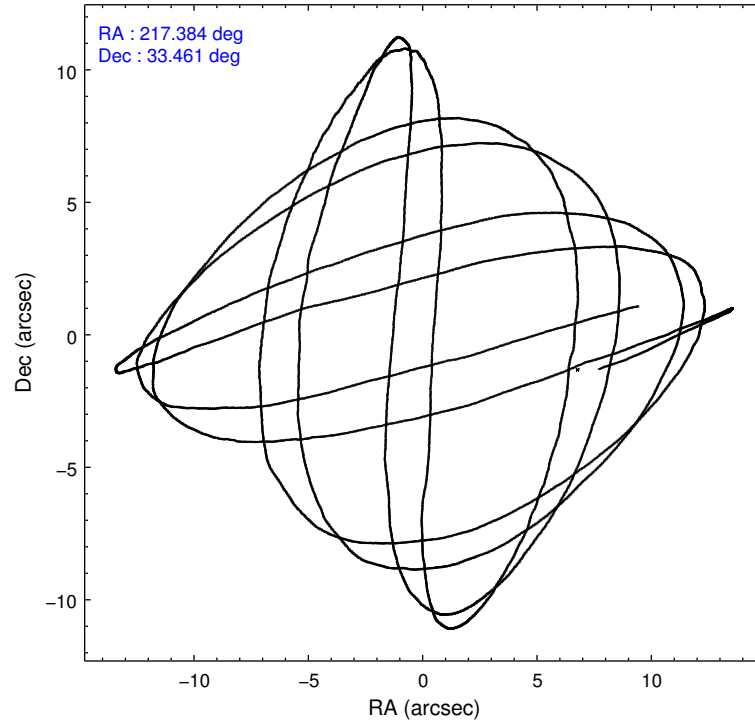
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 22589 | 22559 | 24851 | 23785 | 22652 |
| rejected events | 20376 | 20210 | 22568 | 21687 | 20382 |
| rejected % | 90% | 89% | 90% | 91% | 89% |

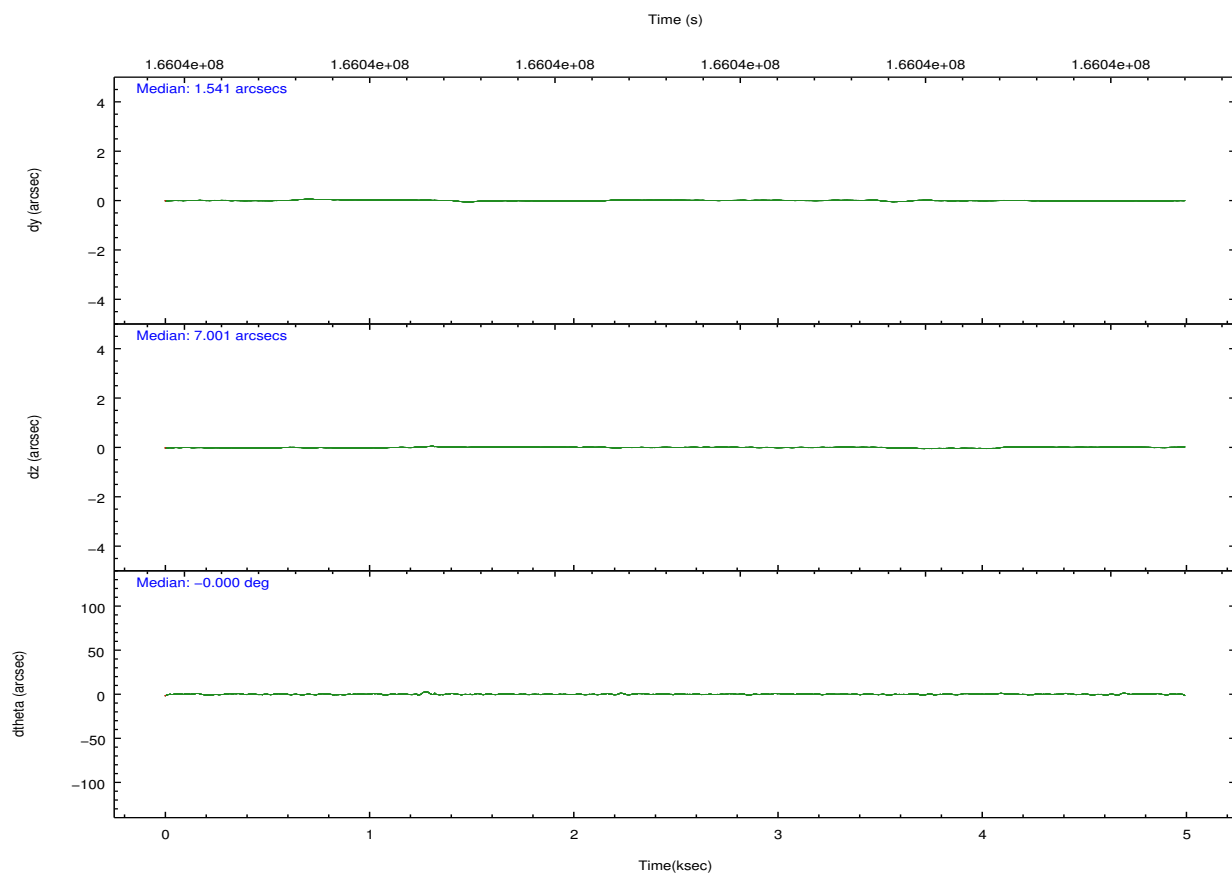
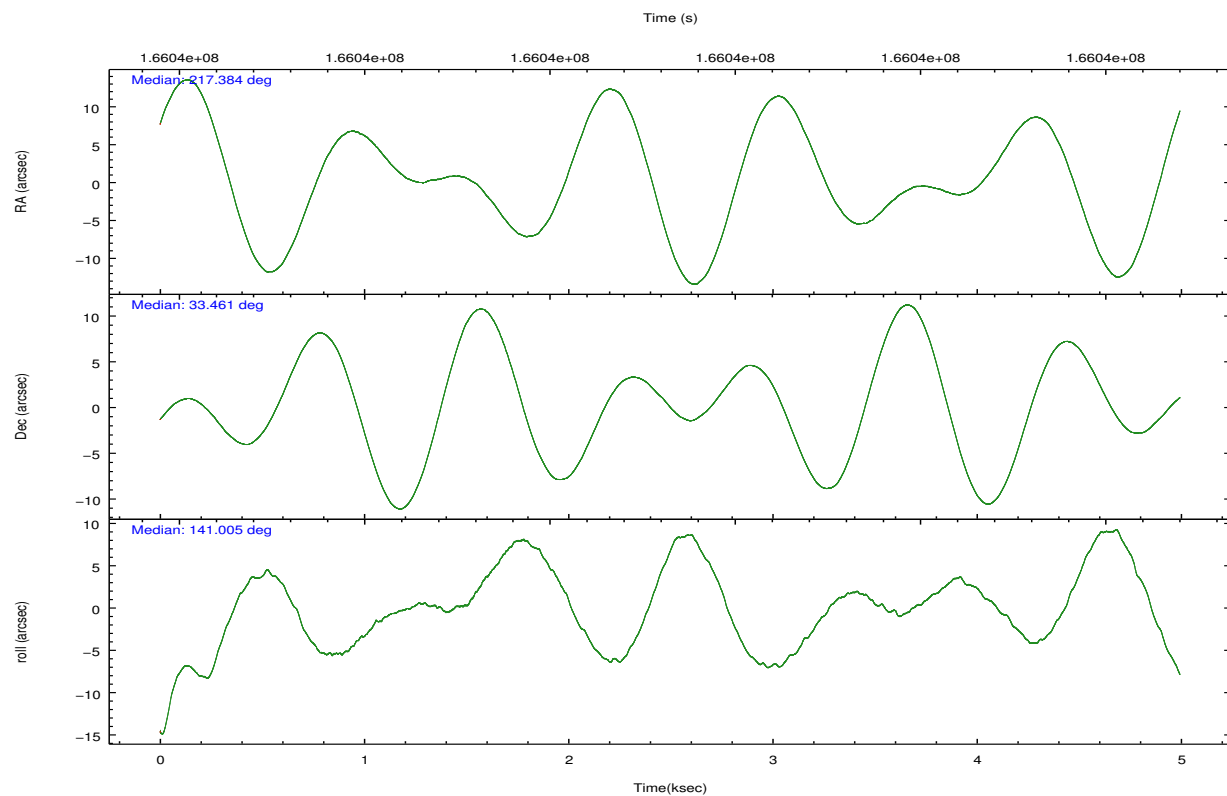
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 722 | 822 | 880 | 759 | 832 |
| | 3% | 3% | 3% | 3% | 3% |
| grade 1 events | 12 | 11 | 8 | 17 | 5 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 572 | 493 | 533 | 450 | 478 |
| | 2% | 2% | 2% | 1% | 2% |
| grade 3 events | 268 | 286 | 251 | 271 | 261 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 254 | 274 | 245 | 264 | 280 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 5 events | 664 | 739 | 634 | 765 | 719 |
| | 2% | 3% | 2% | 3% | 3% |
| grade 6 events | 401 | 475 | 375 | 355 | 421 |
| | 1% | 2% | 1% | 1% | 1% |
| grade 7 events | 19696 | 19459 | 21925 | 20904 | 19656 |
| | 87% | 86% | 88% | 87% | 86% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 217.416910 | 217.3844567127062 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 33.456844 | 33.46098914559248 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 140.783560 | 141.0101400072281 | [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) | 166039345.184000 | 166038969.4648 | | | |
| Observation start date | 2003-04-06T18:01:21 | 2003-04-06T17:56:09 | | | |
| [s] Observation end time (MET) | 166044145.184000 | 166044279.47752 | | | |
| Observation end date | 2003-04-06T19:21:21 | 2003-04-06T19:24:39 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



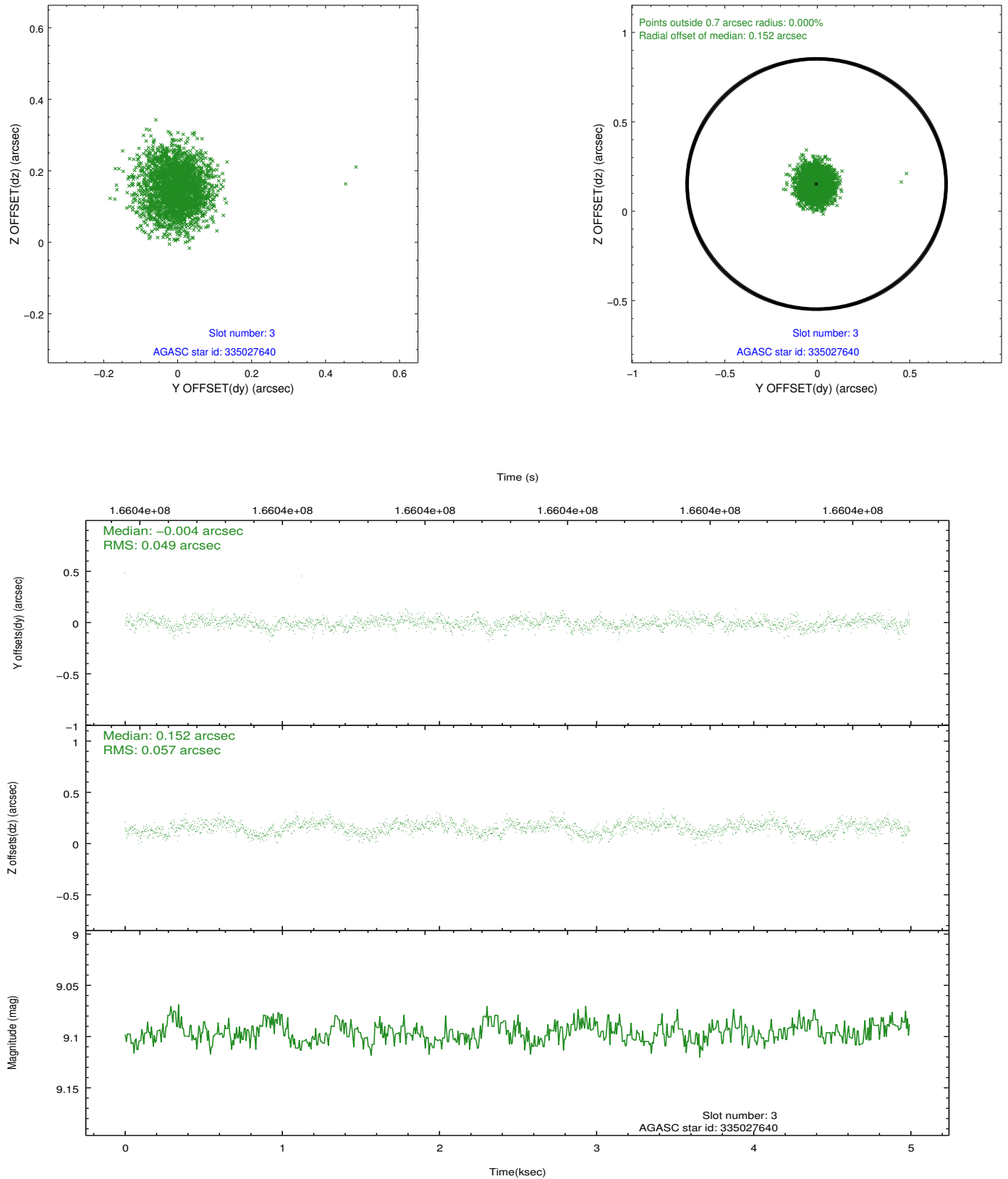


Slot Statistics

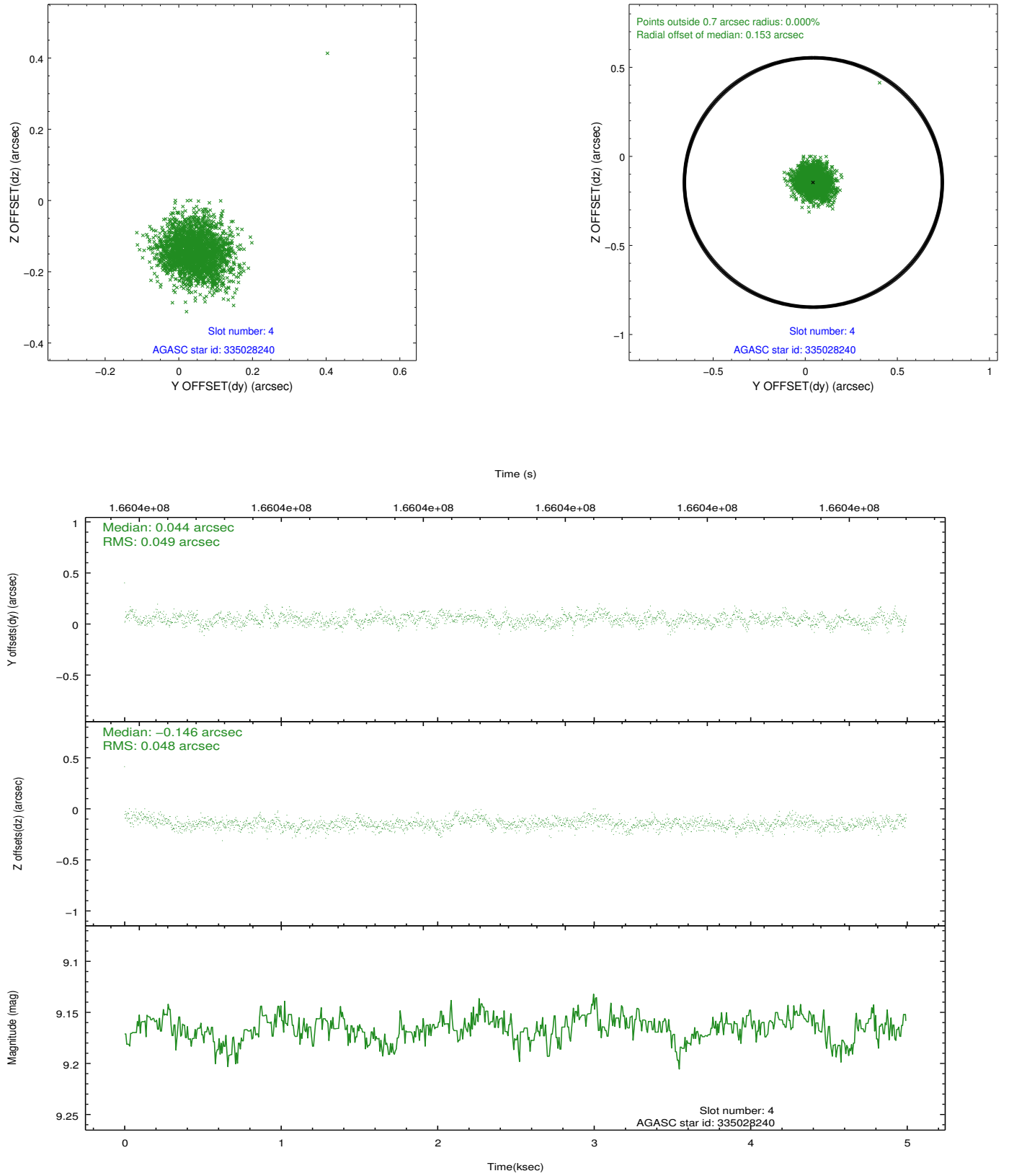
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|---------|
| 0 | FID | ACIS-I-1 | 7.25 | 1219 | 0.009 | 0.011 | 0.006 | 0.011 | 0.000000 | 0.000000 | 938.28 | -830.40 |
| 1 | FID | ACIS-I-5 | 7.24 | 1219 | -0.077 | 0.053 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1809.19 | 1066.59 |
| 2 | FID | ACIS-I-6 | 7.26 | 1219 | -0.023 | 0.007 | 0.007 | 0.011 | 0.000000 | 0.000000 | 402.54 | 1712.37 |
| 3 | GUIDE | 335027640 | 9.10 | 2436 | -0.004 | 0.152 | 0.079 | 0.127 | 218.092211 | 33.193770 | -2170.61 | -557.51 |
| 4 | GUIDE | 335028240 | 9.17 | 2437 | 0.044 | -0.146 | 0.072 | 0.117 | 216.746851 | 33.385009 | 1400.51 | 1468.72 |
| 5 | GUIDE | 335028696 | 9.16 | 2437 | 0.106 | 0.165 | 0.069 | 0.113 | 217.260519 | 33.844112 | 1244.86 | -783.78 |
| 6 | GUIDE | 335029384 | 8.49 | 2437 | -0.031 | -0.084 | 0.053 | 0.085 | 217.848061 | 33.088477 | -1843.81 | 202.76 |
| 7 | GUIDE | 335029808 | 9.07 | 2436 | -0.114 | -0.086 | 0.081 | 0.127 | 216.789548 | 33.180488 | 838.27 | 1961.71 |

2.4 Star Slots

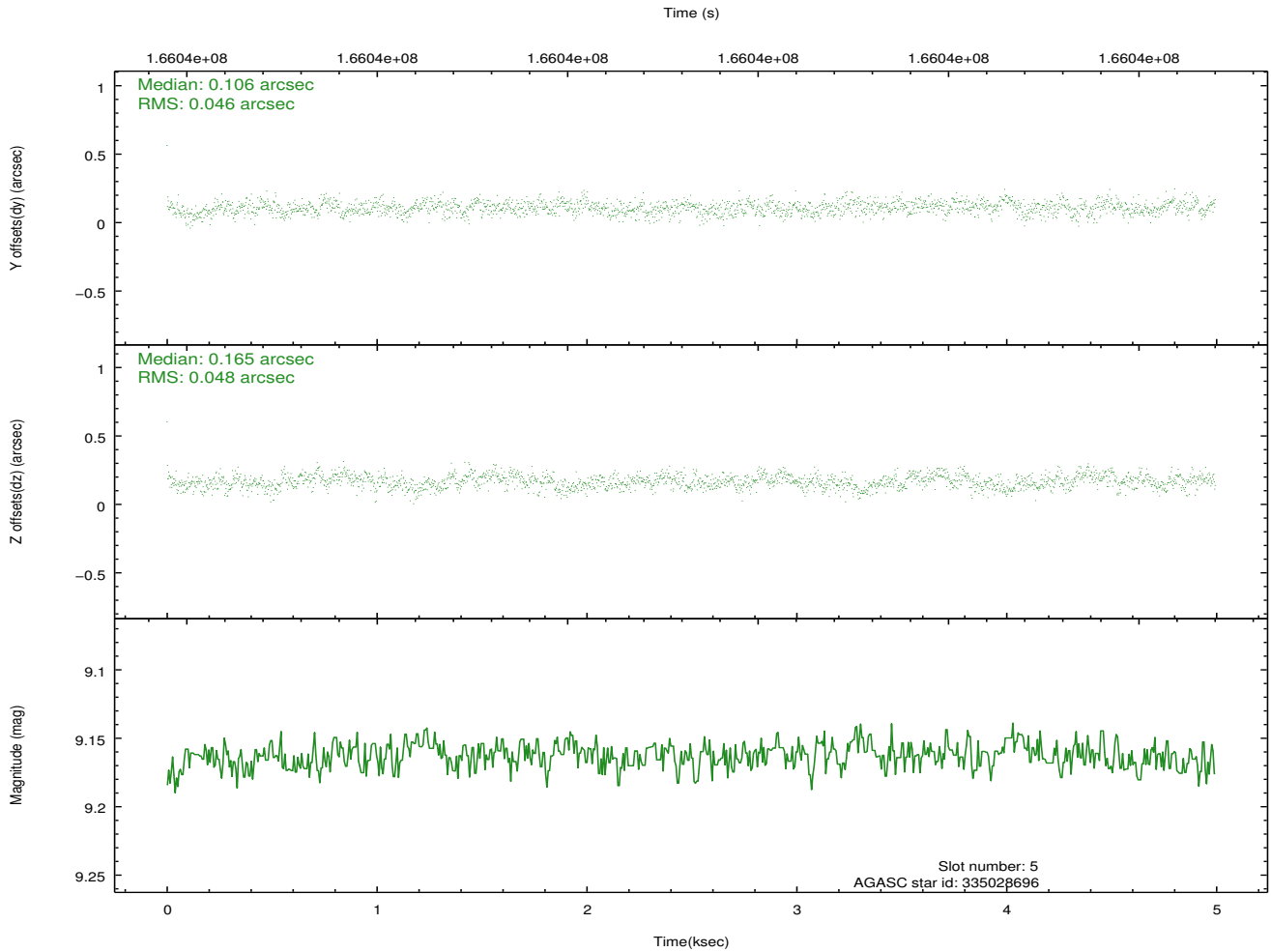
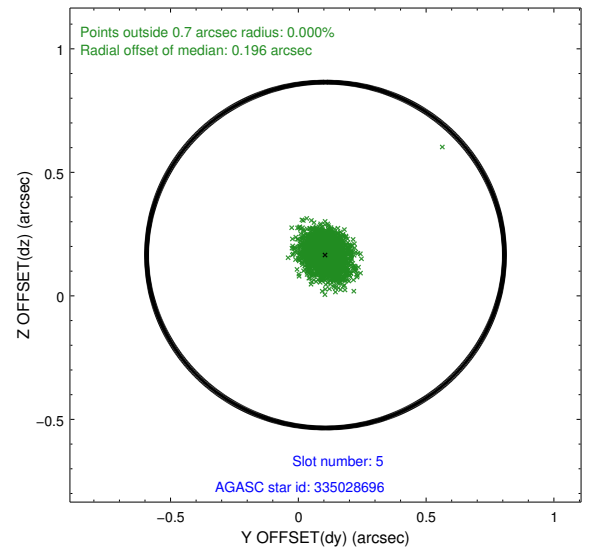
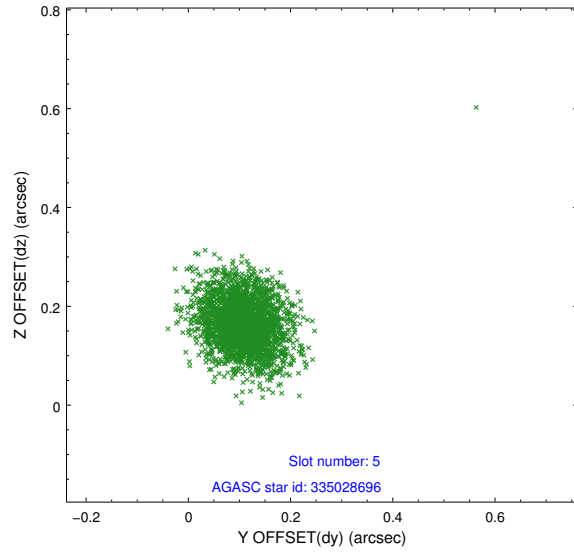
2.4.1 Slot 3



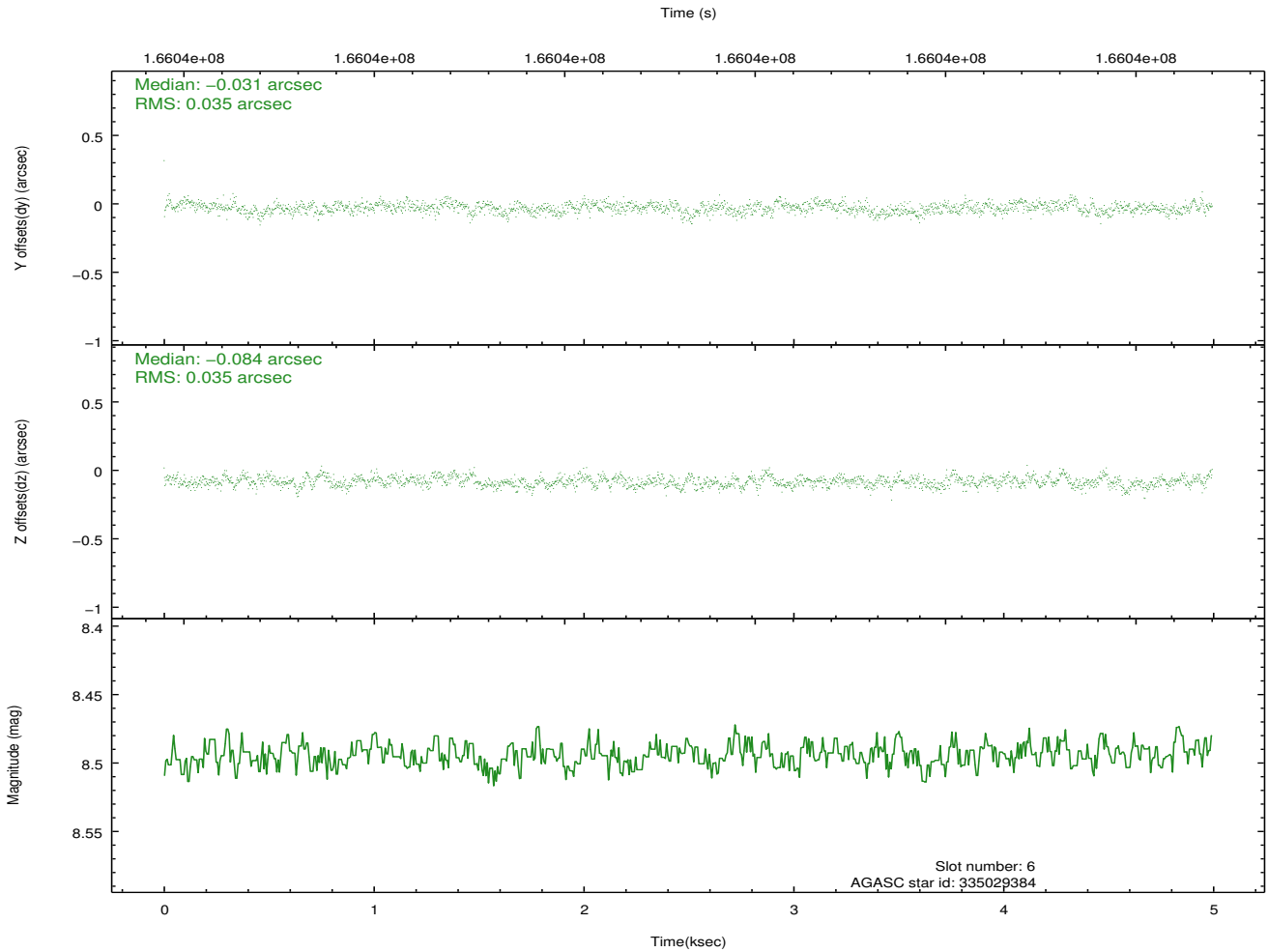
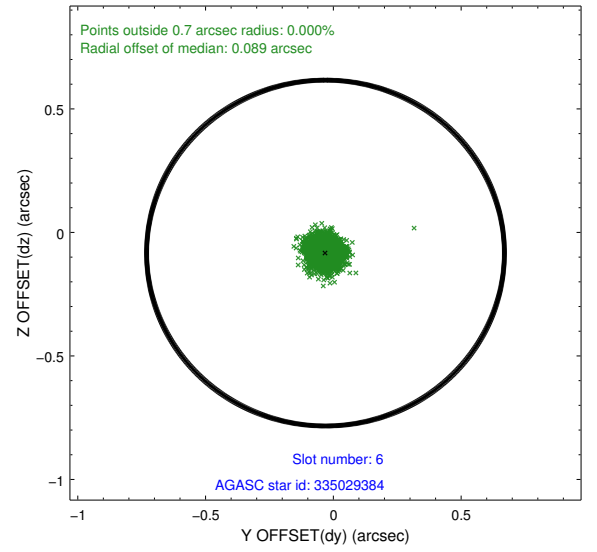
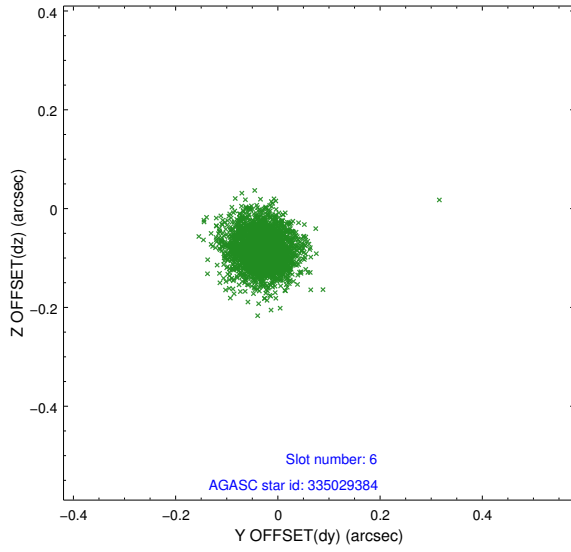
2.4.2 Slot 4



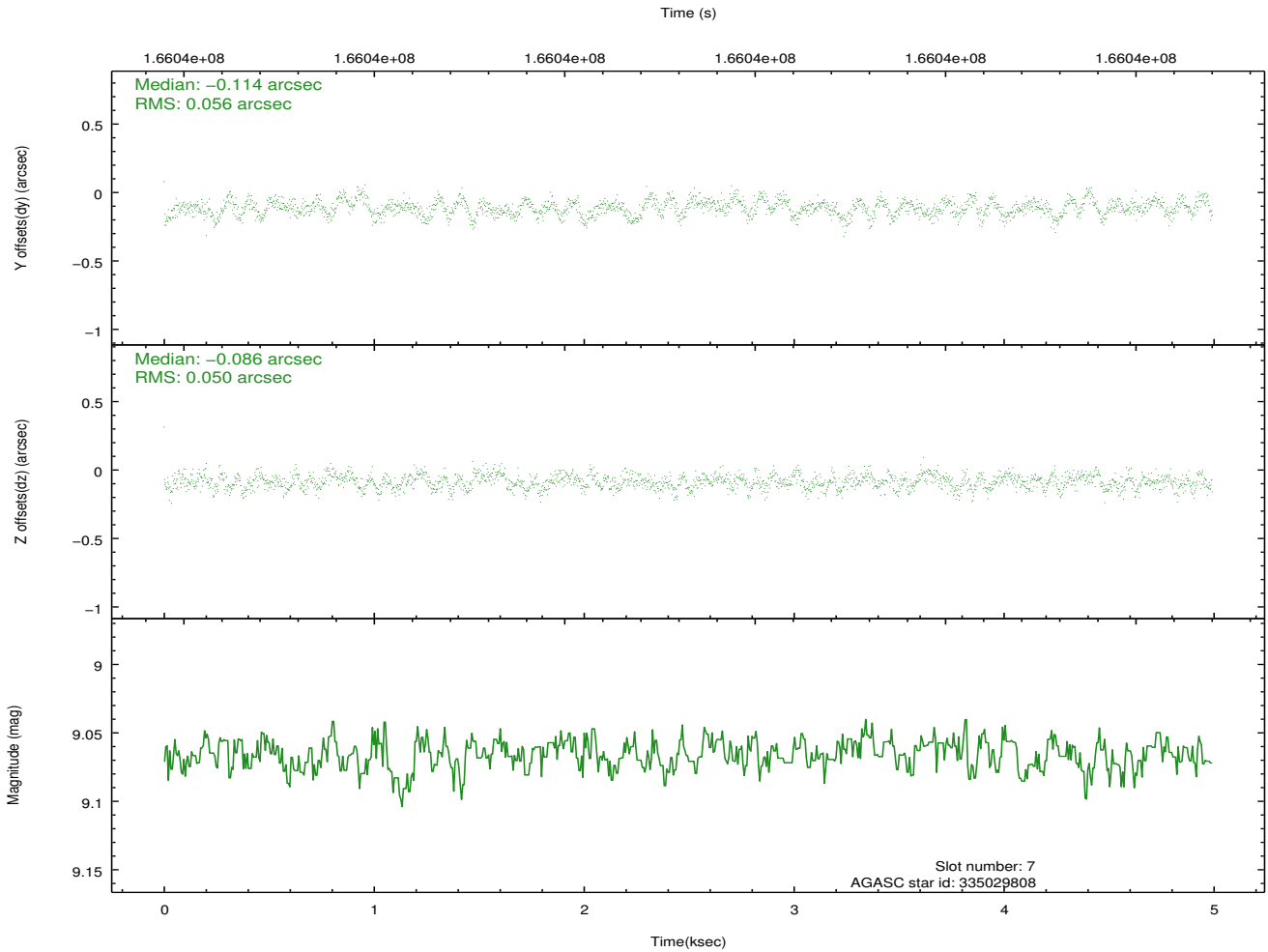
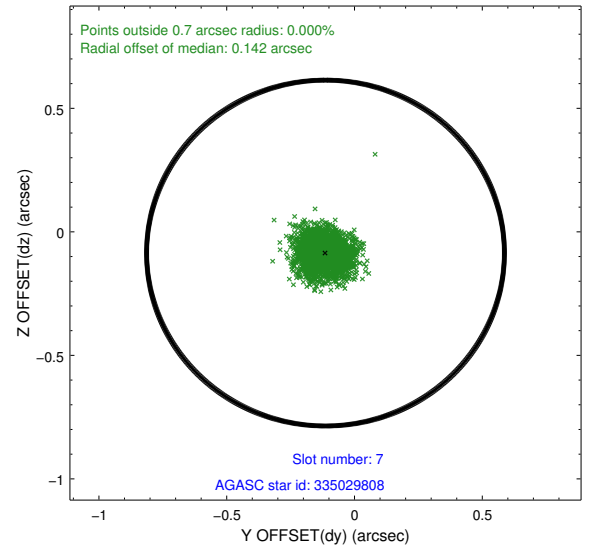
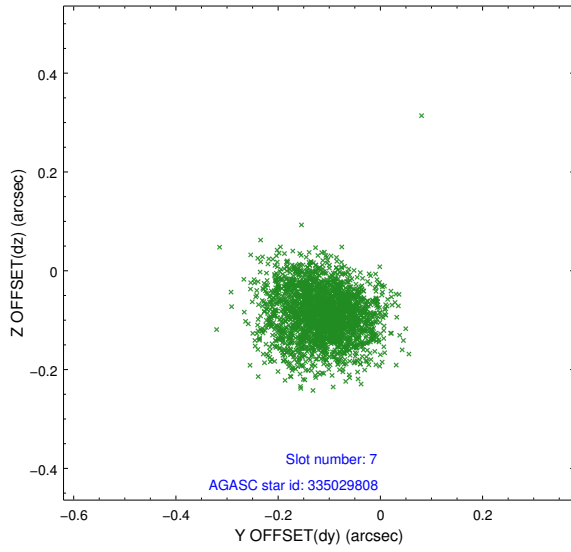
2.4.3 Slot 5



2.4.4 Slot 6

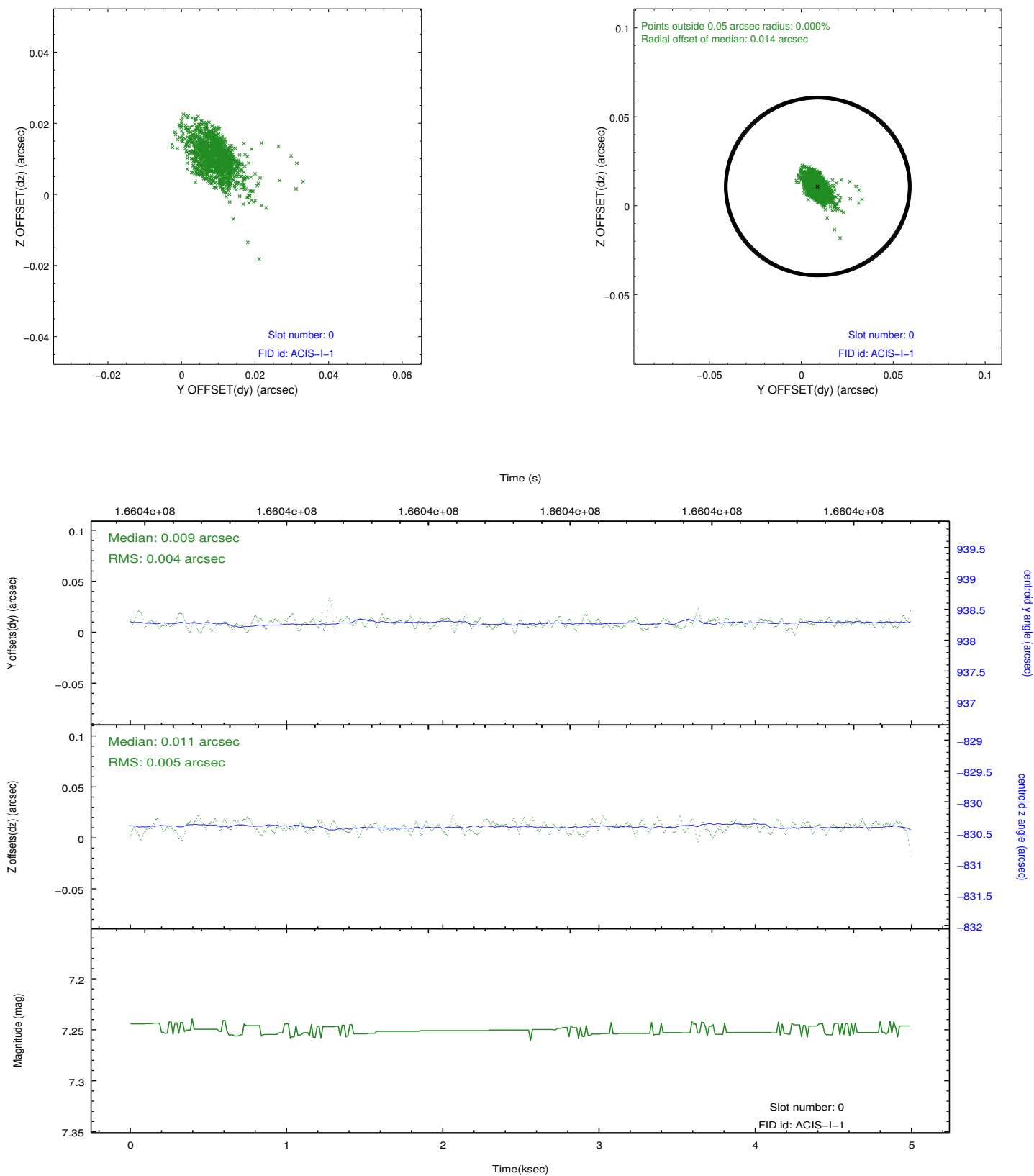


2.4.5 Slot 7

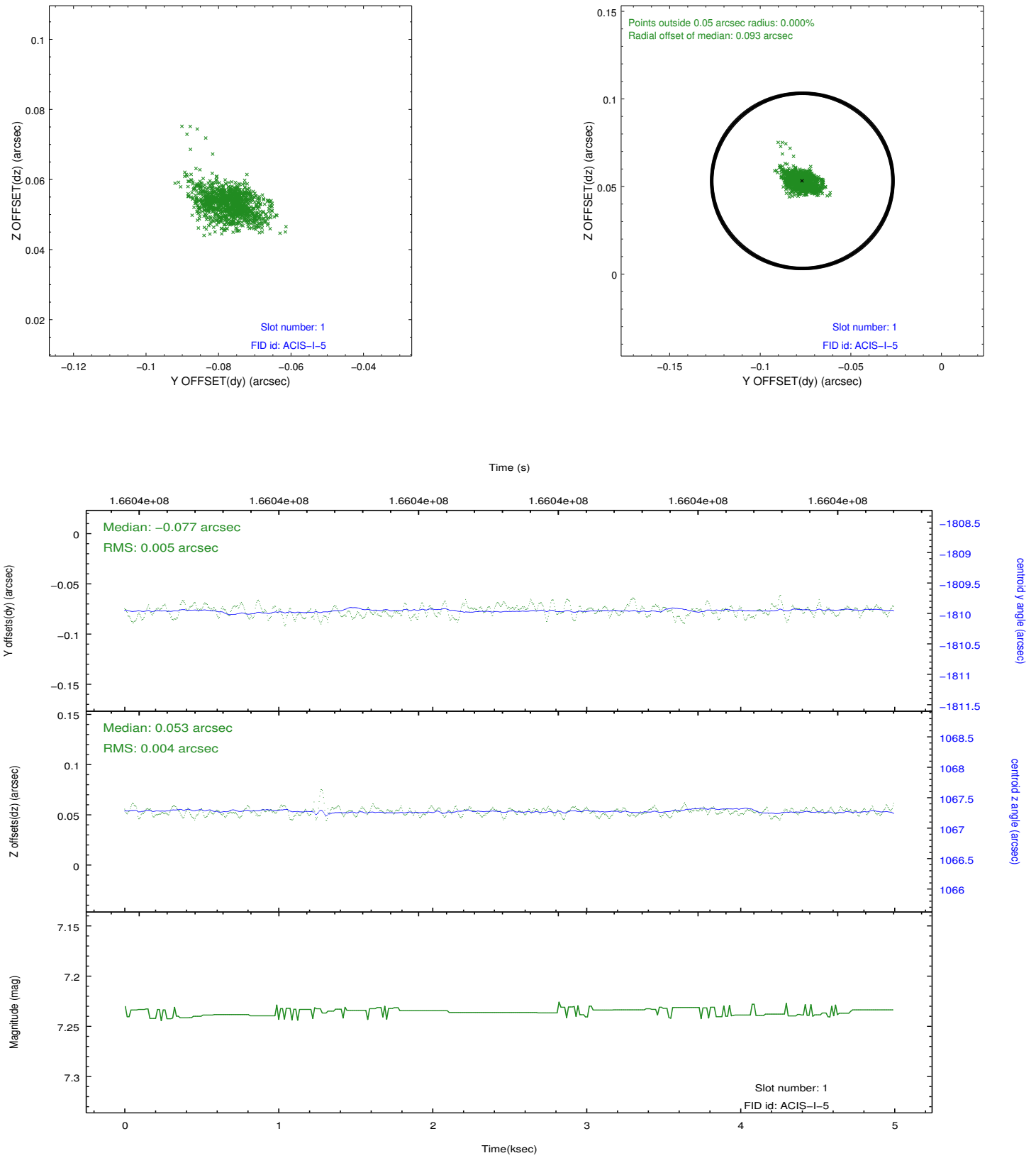


2.5 FID Slots

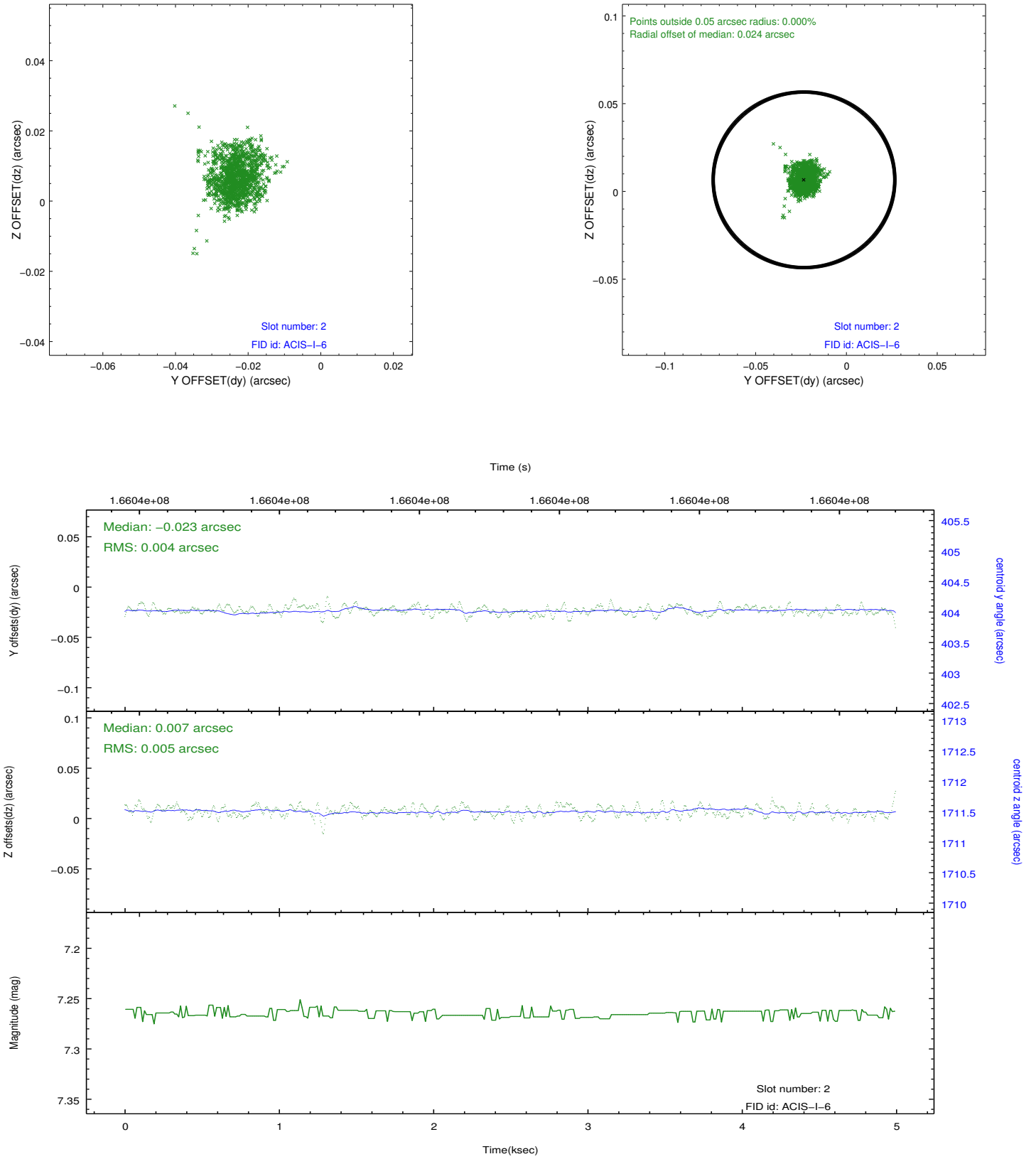
2.5.1 Slot 0



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) | 2012.11.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.578 |

A.2 Comments