

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9977 - L2 Version 2
Chandra X-Ray Center

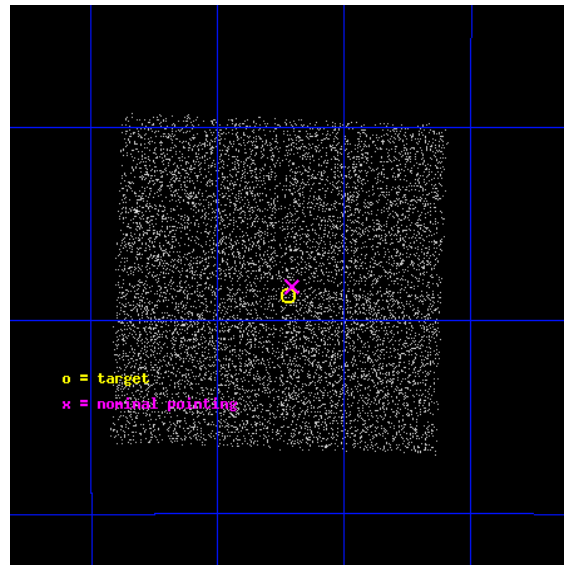
L2 Processing Date : Jun 1 2012

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1 Front

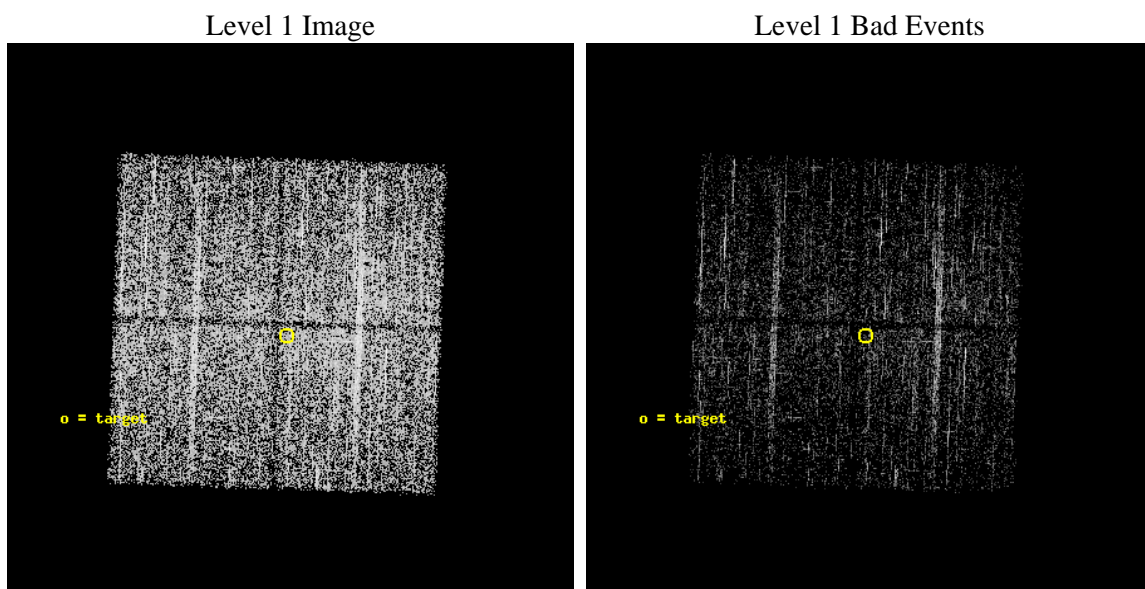
| | | |
|----------|--|---|
| seq_num | 400941 | Sequence number |
| obs_id | 9977 | Observation id |
| title | Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge | Proposal title |
| observer | dr Peter Jonker | Principal investigator |
| object | GBS1-10 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 264.804833 | Observer's specified target RA [deg] |
| dec_targ | -27.978972 | Observer's specified target Dec [deg] |
| ra_nom | 264.80178485077 | Nominal RA [deg] |
| dec_nom | -27.97114638368 | Nominal Dec [deg] |
| roll_nom | 91.960634389423 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 2166.9000166655 | Sum of GTIs [s] |
| livetime | 2138.5878726991 | Livetime [s] |
| ontime0 | 2166.9000166655 | Sum of GTIs [s] |
| ontime1 | 2166.9000166655 | Sum of GTIs [s] |
| ontime2 | 2166.9000166655 | Sum of GTIs [s] |
| ontime3 | 2166.9000166655 | Sum of GTIs [s] |
| l2events | 10441 | Number of level 2 events |



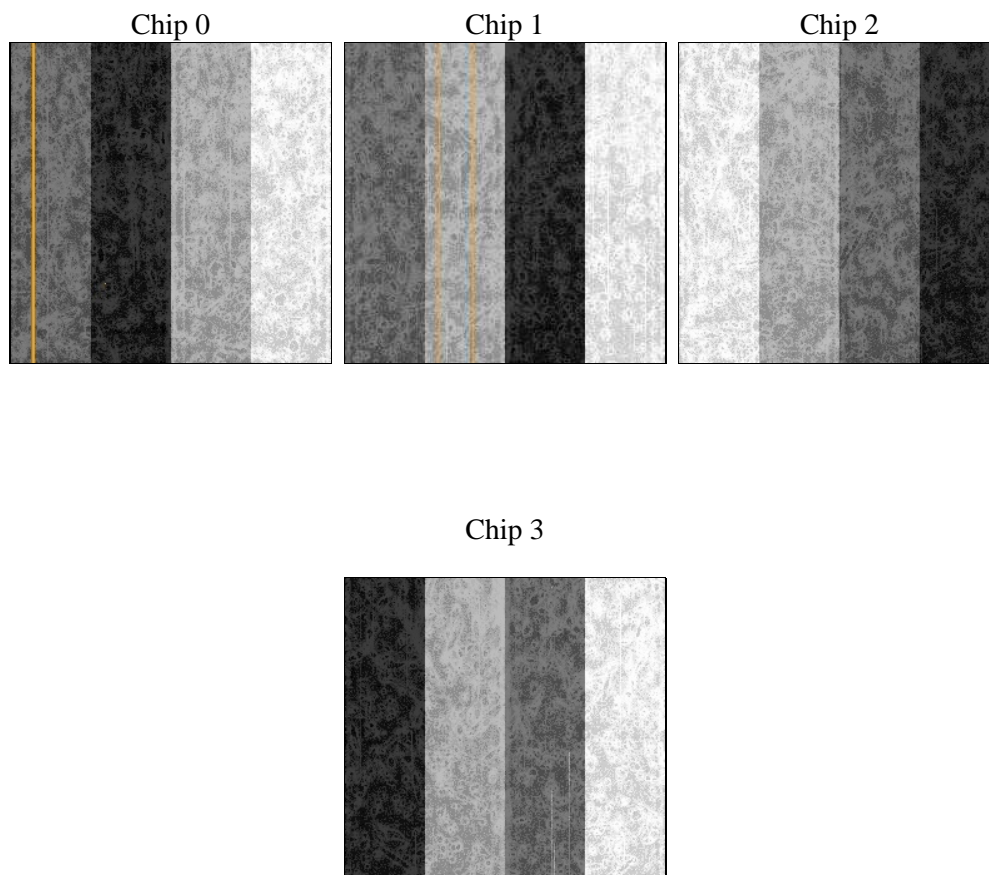
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 2166.9000166655 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 2166.9000166655 | Sum of GTIs [s] |
| date | 2012-06-01T06:01:57 | Date and time of file creation | ontime1 | 2166.9000166655 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 2166.9000166655 | Sum of GTIs [s] |
| | | | ontime3 | 2166.9000166655 | Sum of GTIs [s] |
| | | | l1events | 115894 | Number of level 1 events |

2.1.4 Events

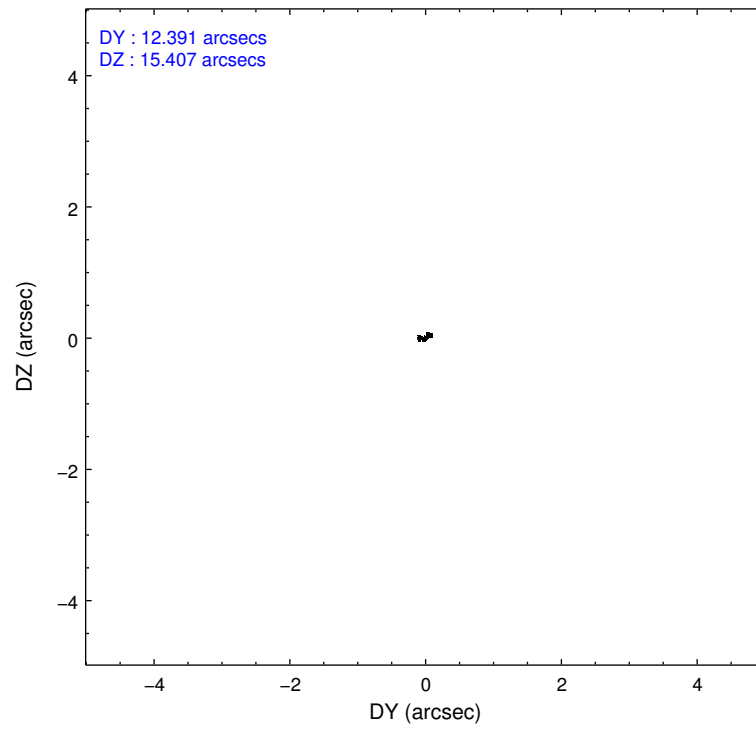
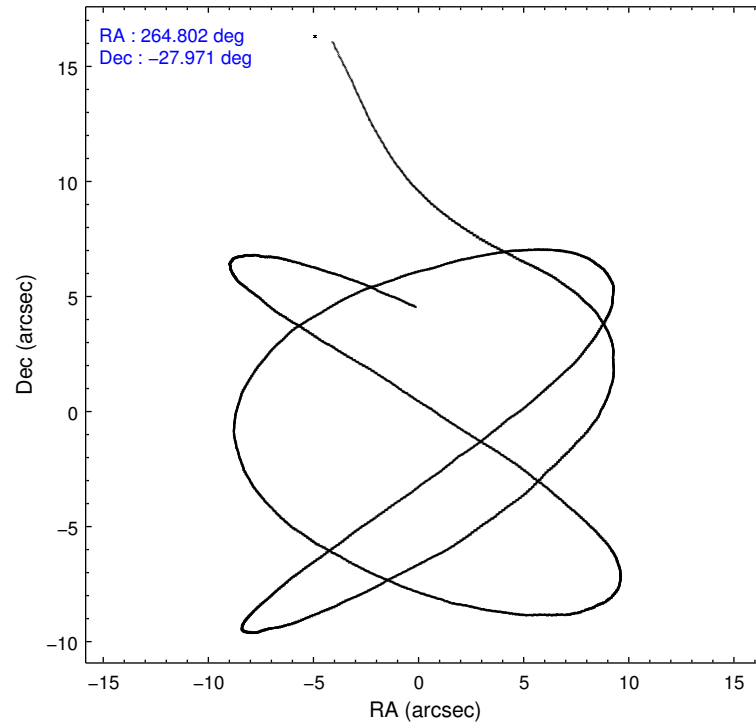
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 28477 | 27919 | 30184 | 29314 |
| rejected events | 25496 | 24811 | 27252 | 26366 |
| rejected % | 89% | 88% | 90% | 89% |

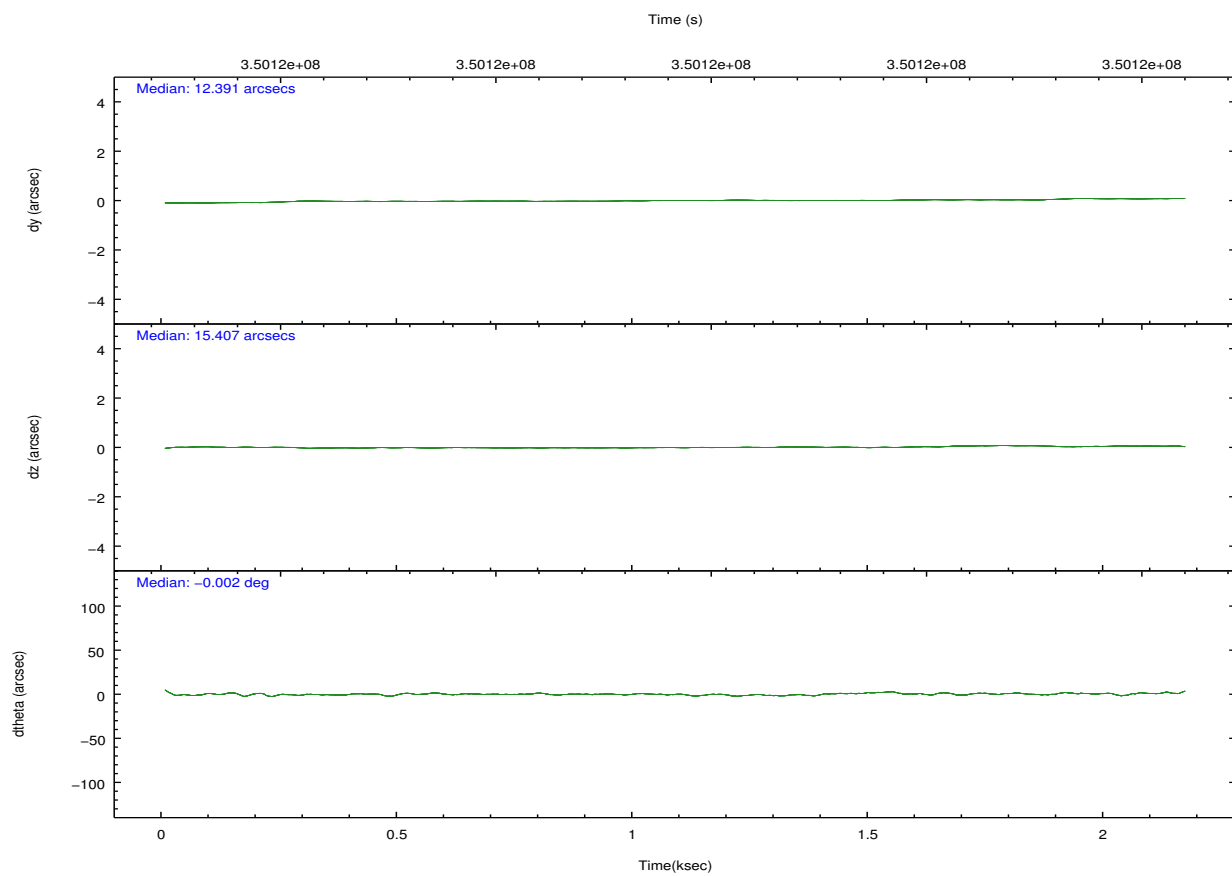
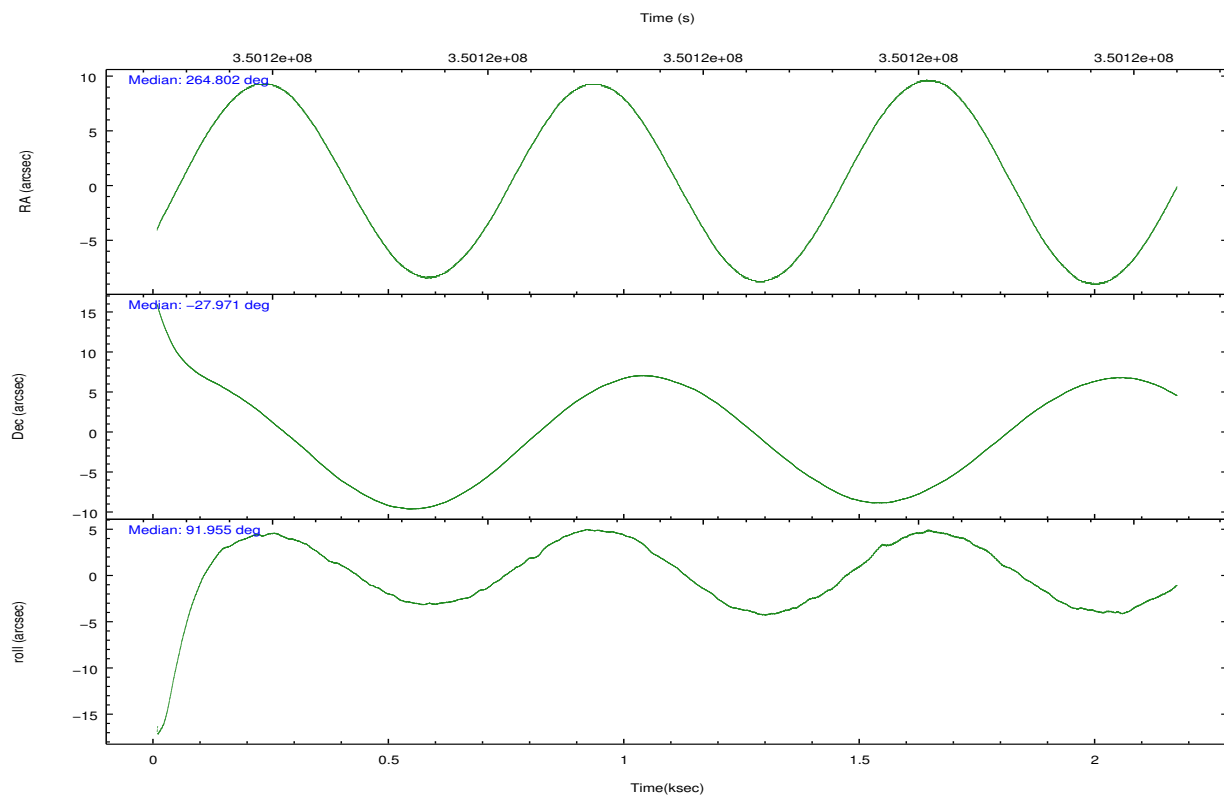
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 1890 | 1761 | 1944 | 1890 |
| | 6% | 6% | 6% | 6% |
| grade 1 events | 16 | 27 | 28 | 25 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 862 | 958 | 815 | 769 |
| | 3% | 3% | 2% | 2% |
| grade 3 events | 363 | 416 | 350 | 359 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 340 | 401 | 349 | 347 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 1383 | 1345 | 1236 | 1361 |
| | 4% | 4% | 4% | 4% |
| grade 6 events | 687 | 800 | 576 | 666 |
| | 2% | 2% | 1% | 2% |
| grade 7 events | 22936 | 22211 | 24886 | 23897 |
| | 80% | 79% | 82% | 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 | 264.818398 | 264.8017848507721 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -27.994615 | -27.97114638367998 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 91.759837 | 91.96063438942305 | [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) | 350119504.184000 | 350118227.55685 | | | |
| Observation start date | 2009-02-04T07:23:58 | 2009-02-04T07:03:47 | | | |
| [s] Observation end time (MET) | 350121504.184000 | 350121637.73201 | | | |
| Observation end date | 2009-02-04T07:57:18 | 2009-02-04T08:00:37 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



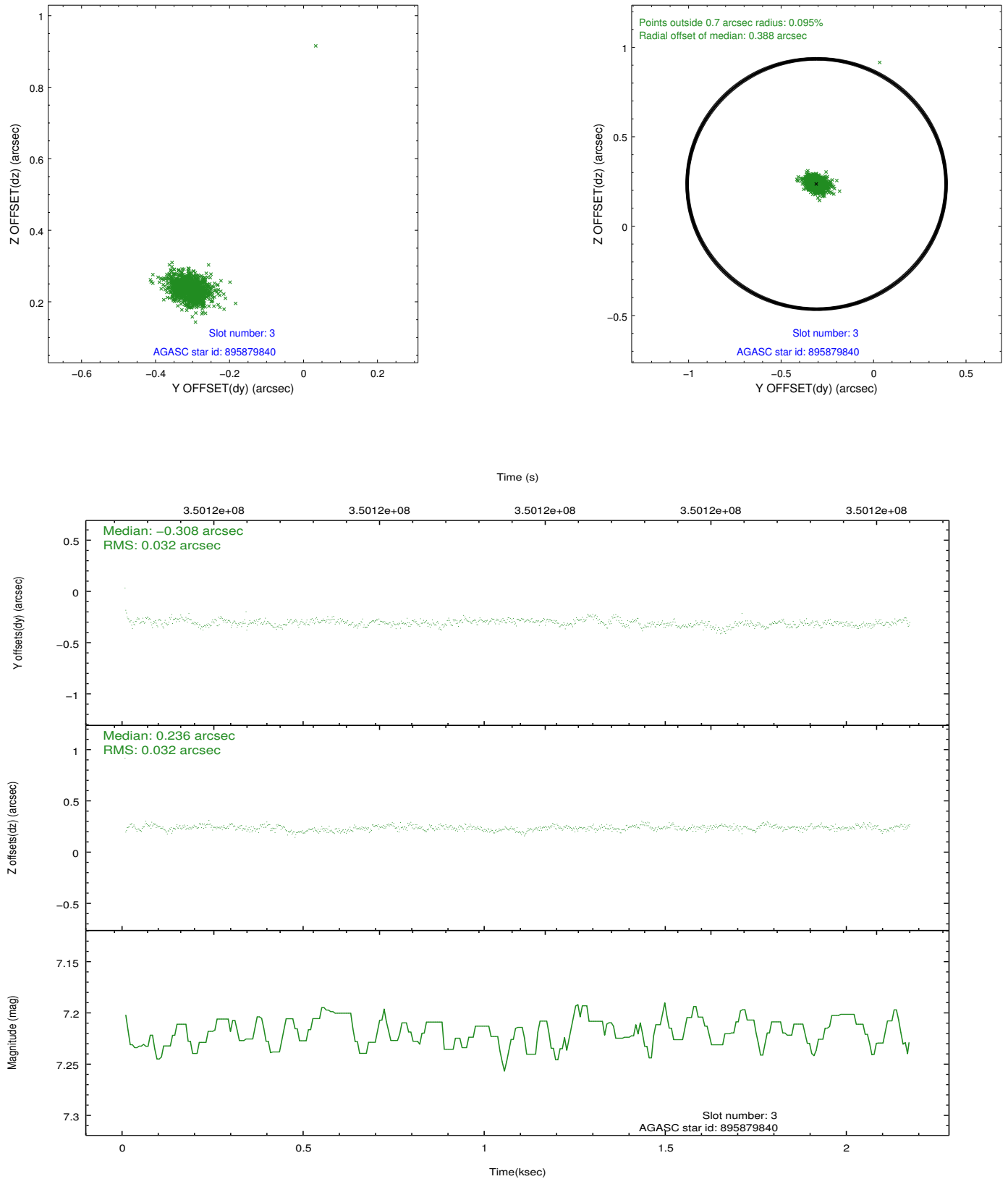


Slot Statistics

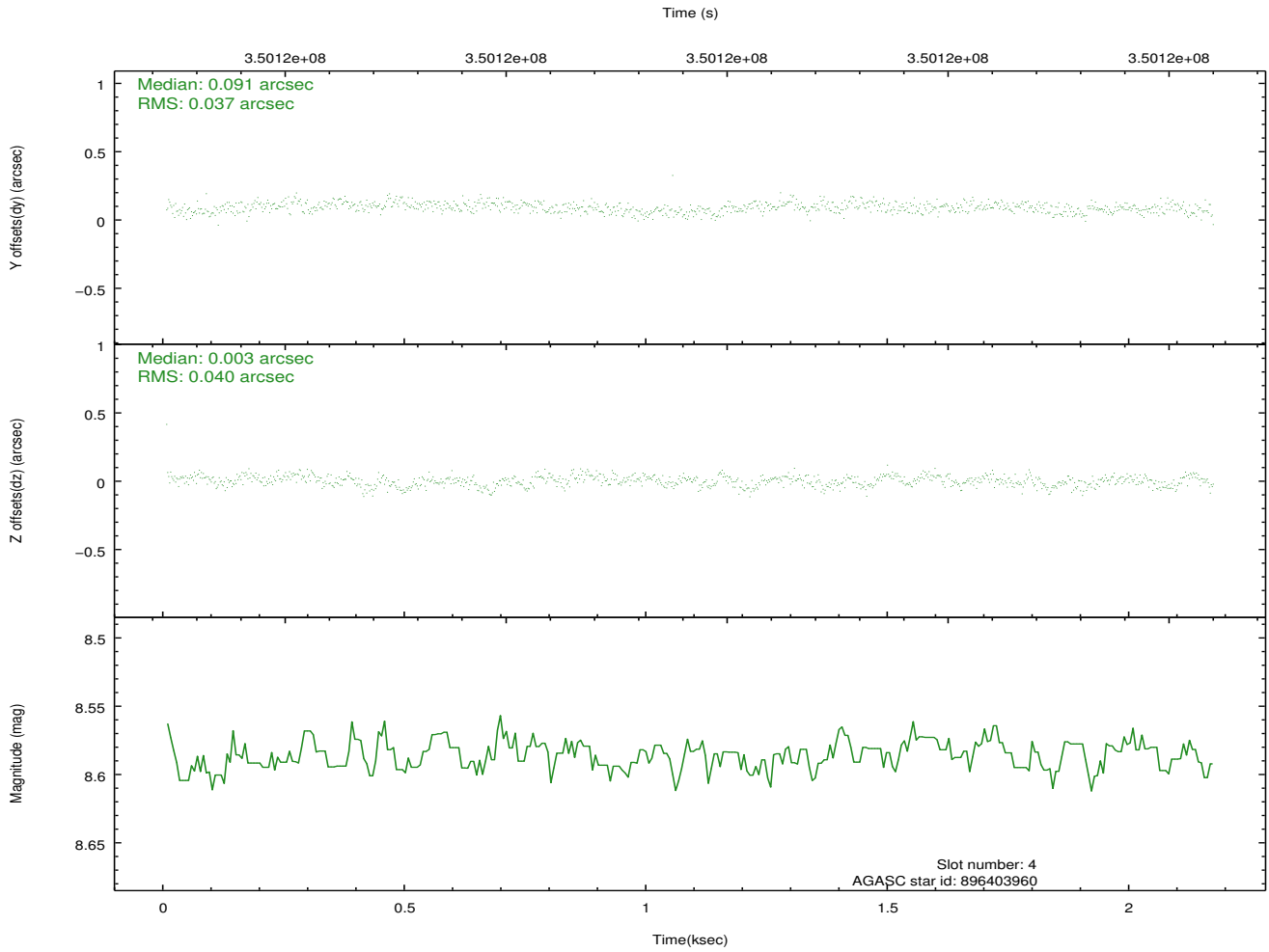
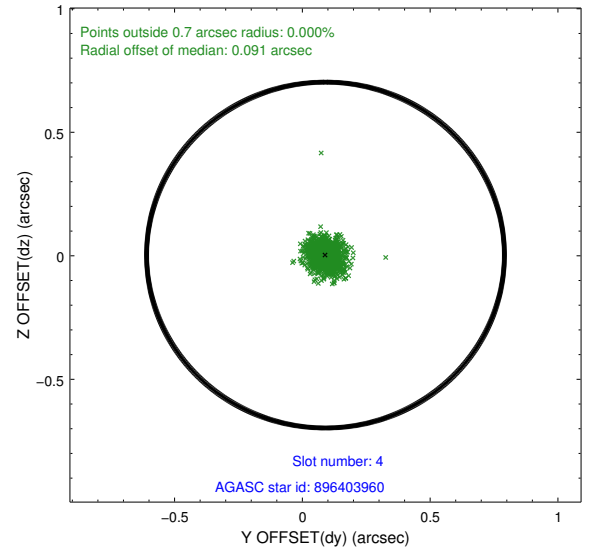
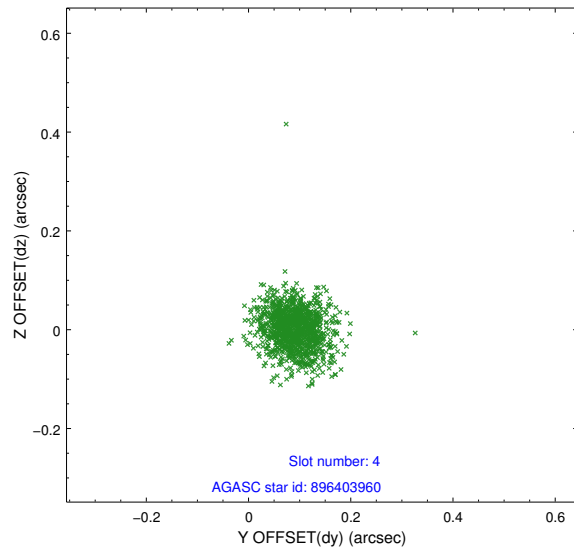
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.00 | 529 | -0.069 | 0.043 | 0.008 | 0.015 | 0.000000 | 0.000000 | 927.08 | -838.98 |
| 1 | FID | ACIS-I-2 | 6.93 | 529 | -0.133 | -0.078 | 0.007 | 0.011 | 0.000000 | 0.000000 | -765.41 | -847.05 |
| 2 | FID | ACIS-I-4 | 6.93 | 529 | 0.104 | 0.103 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2145.76 | 1059.36 |
| 3 | GUIDE | 895879840 | 7.22 | 1058 | -0.308 | 0.236 | 0.040 | 0.069 | 265.218397 | -27.395778 | 2112.62 | -1343.28 |
| 4 | GUIDE | 896403960 | 8.58 | 1058 | 0.091 | 0.003 | 0.056 | 0.093 | 264.379044 | -28.245612 | -861.53 | 1419.33 |
| 5 | GUIDE | 896405048 | 8.28 | 1058 | 0.063 | -0.120 | 0.069 | 0.112 | 264.482575 | -28.152230 | -537.33 | 1084.25 |
| 6 | GUIDE | 896405616 | 7.84 | 1058 | 0.068 | -0.073 | 0.064 | 0.101 | 264.752771 | -28.412560 | -1499.28 | 255.56 |
| 7 | GUIDE | 896406568 | 8.24 | 1057 | 0.093 | -0.044 | 0.067 | 0.102 | 264.435951 | -28.437282 | -1559.62 | 1259.35 |

2.4 Star Slots

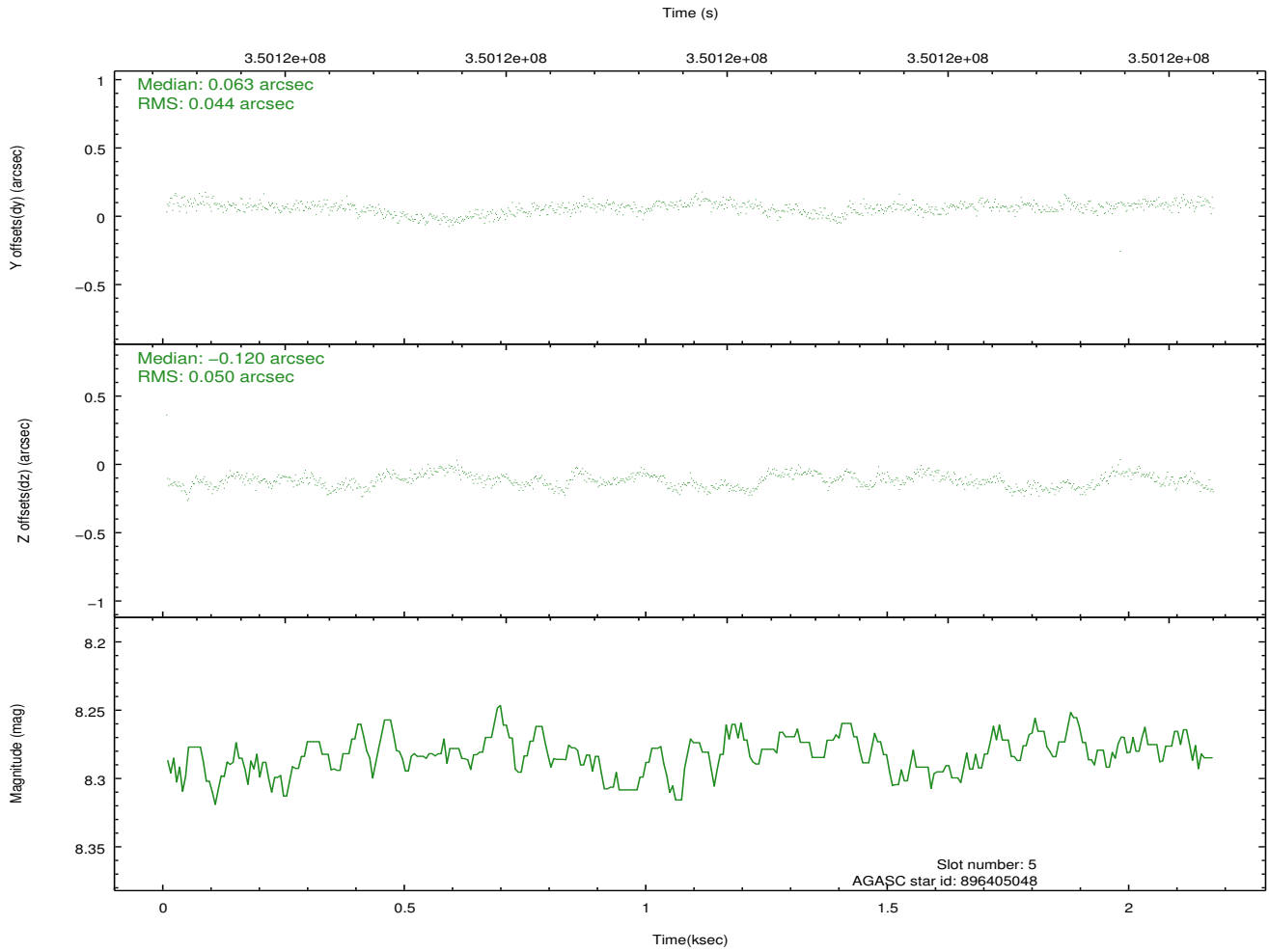
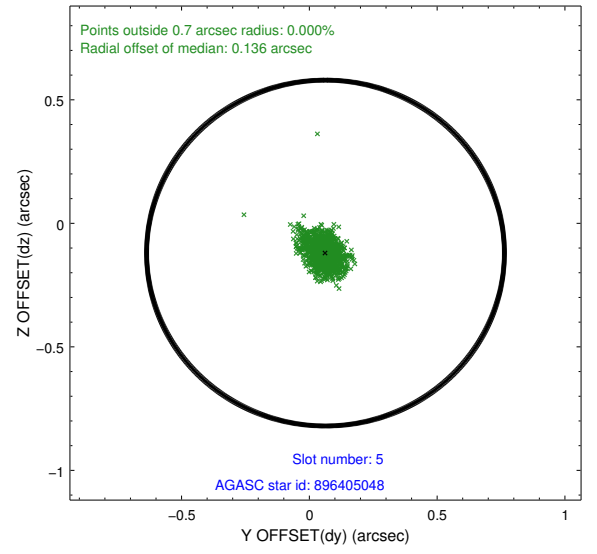
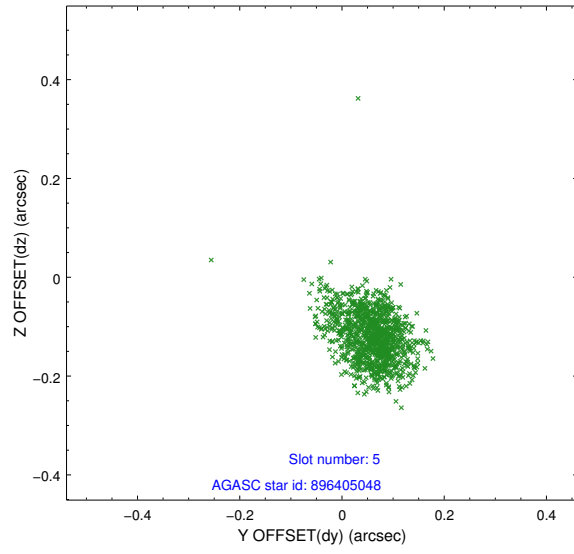
2.4.1 Slot 3



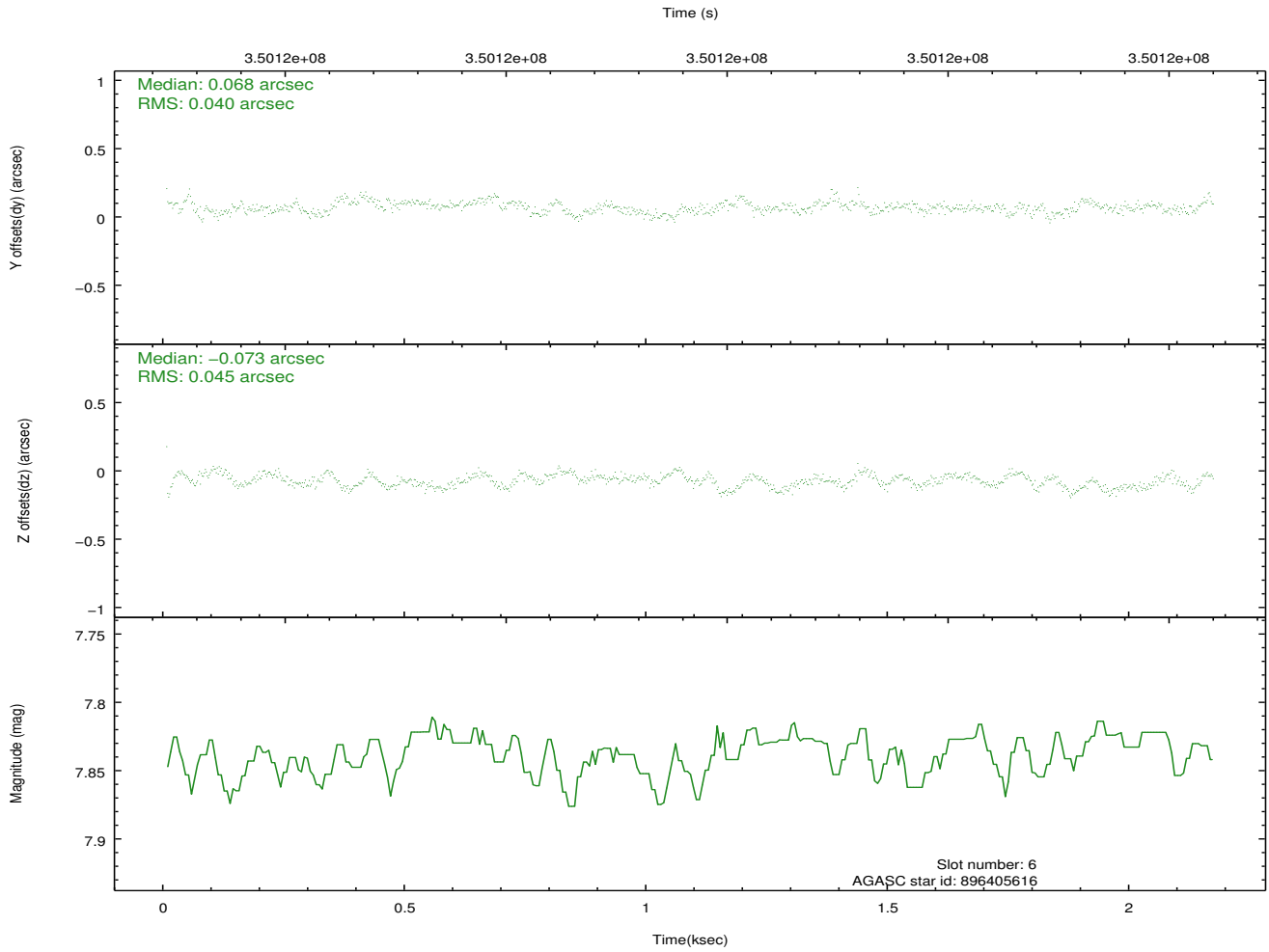
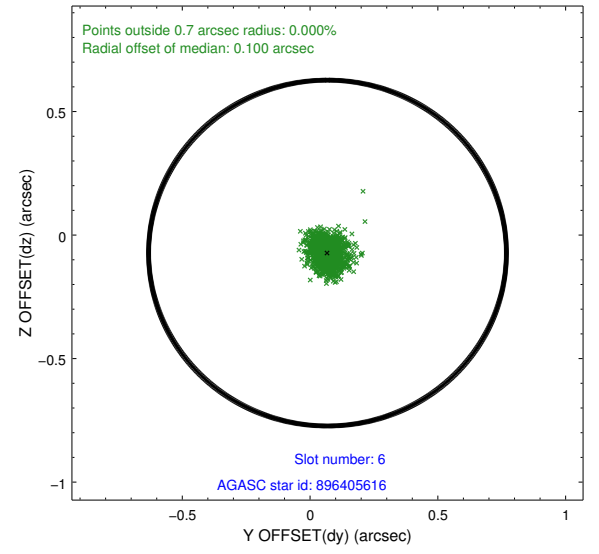
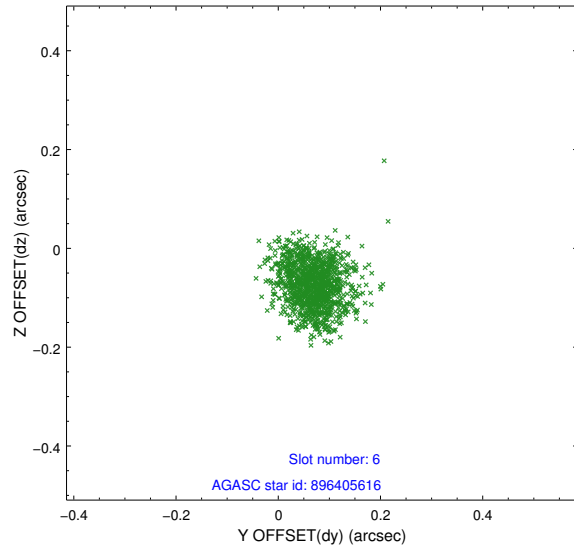
2.4.2 Slot 4



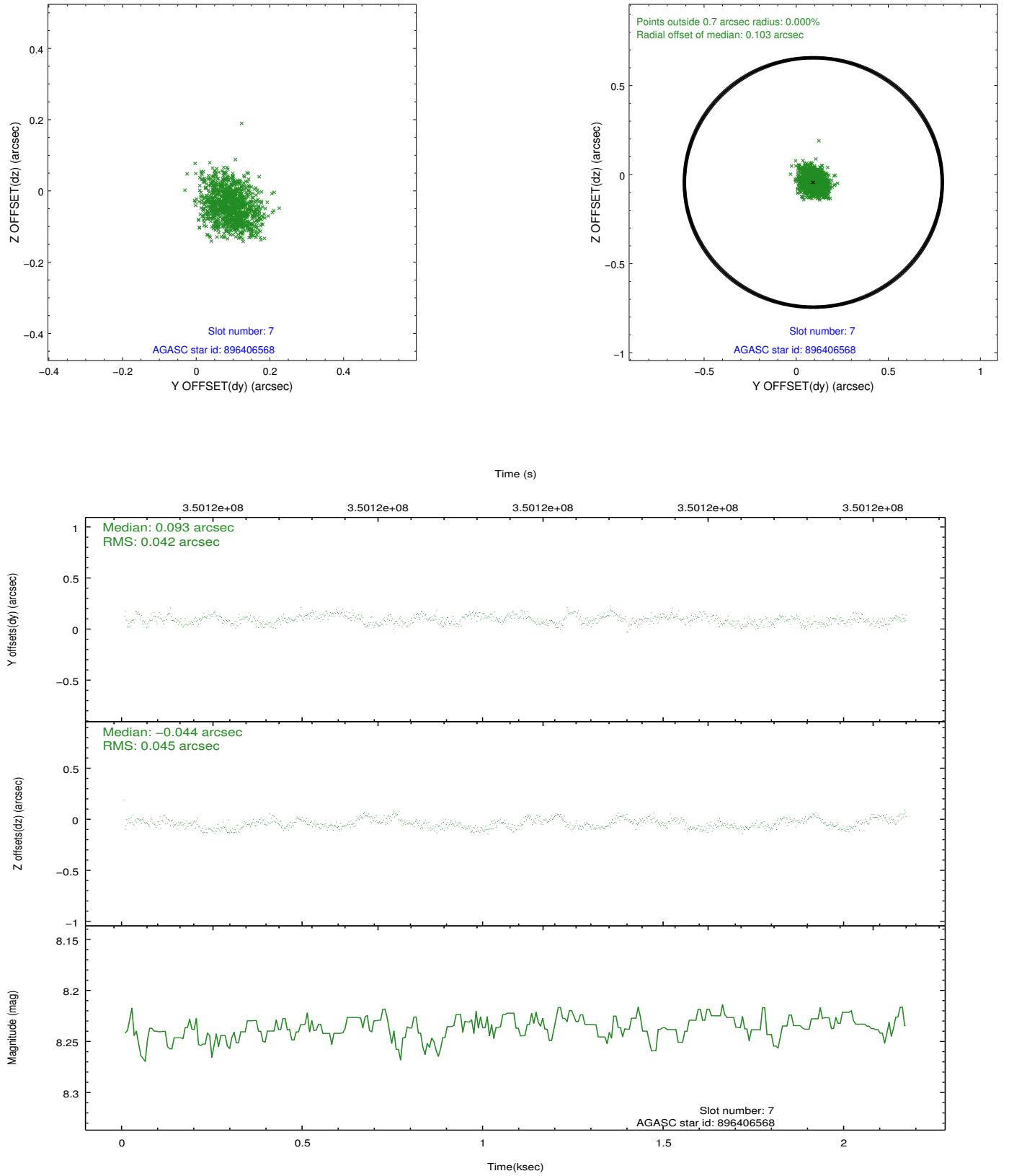
2.4.3 Slot 5



2.4.4 Slot 6

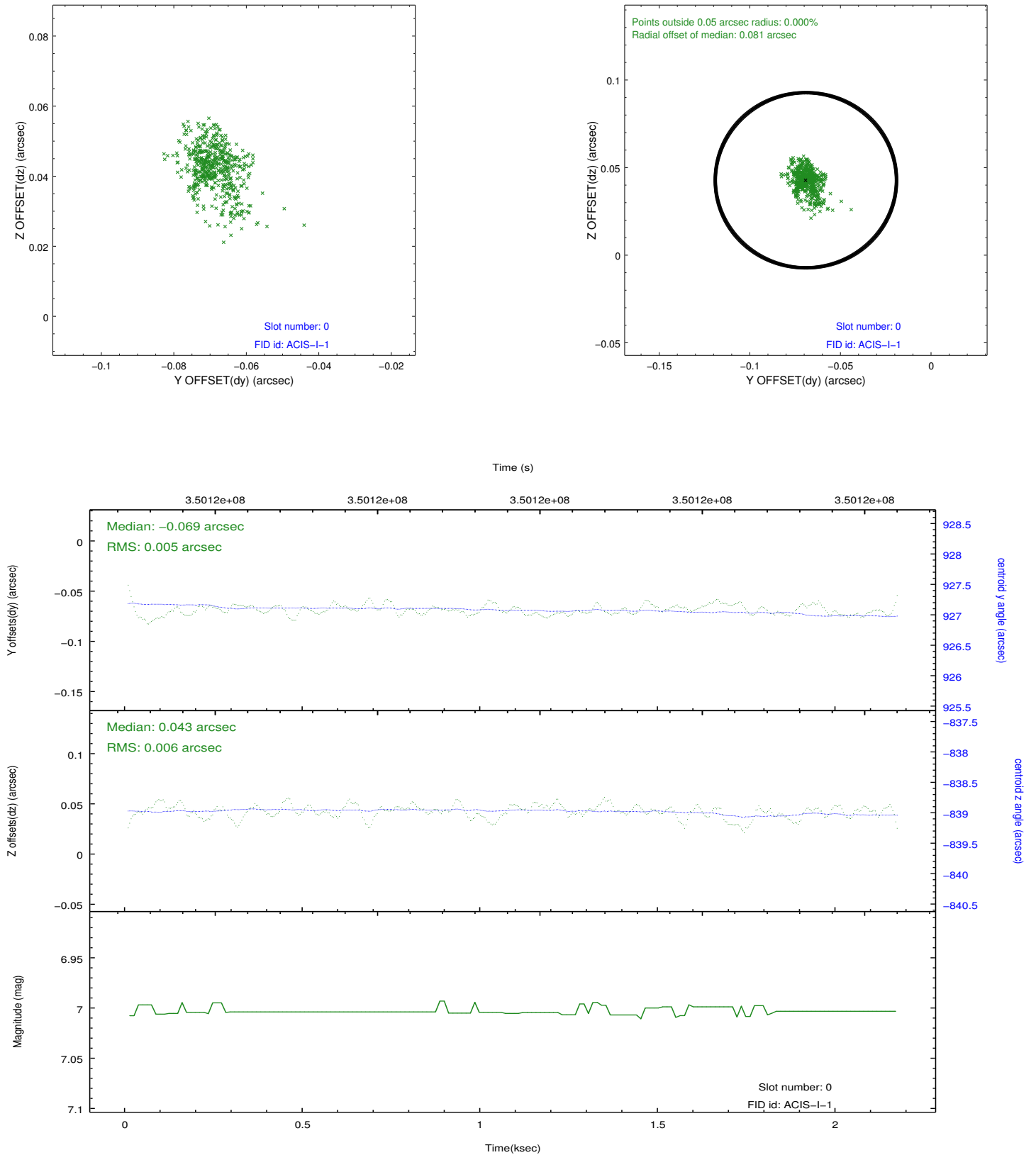


2.4.5 Slot 7

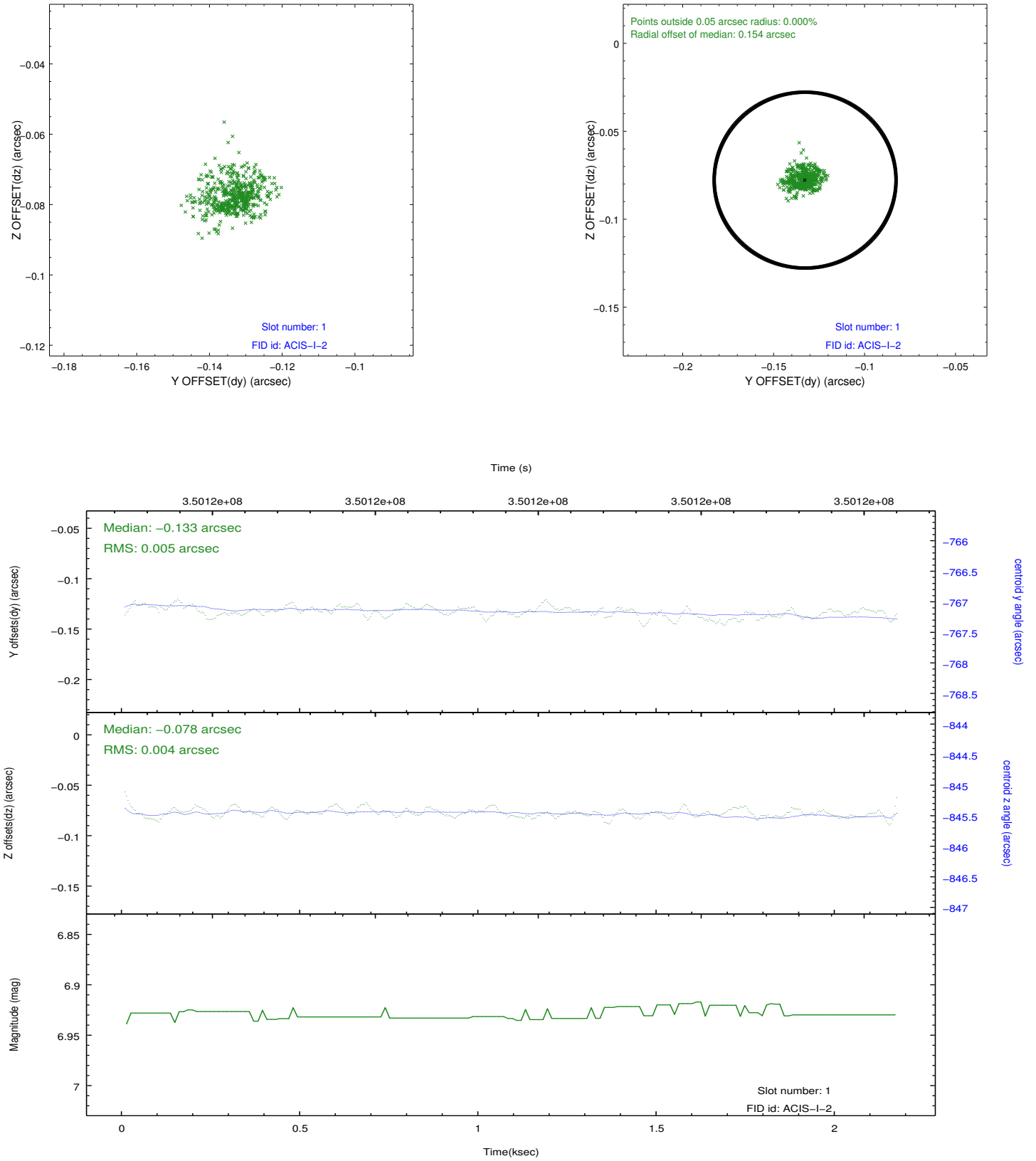


2.5 FID Slots

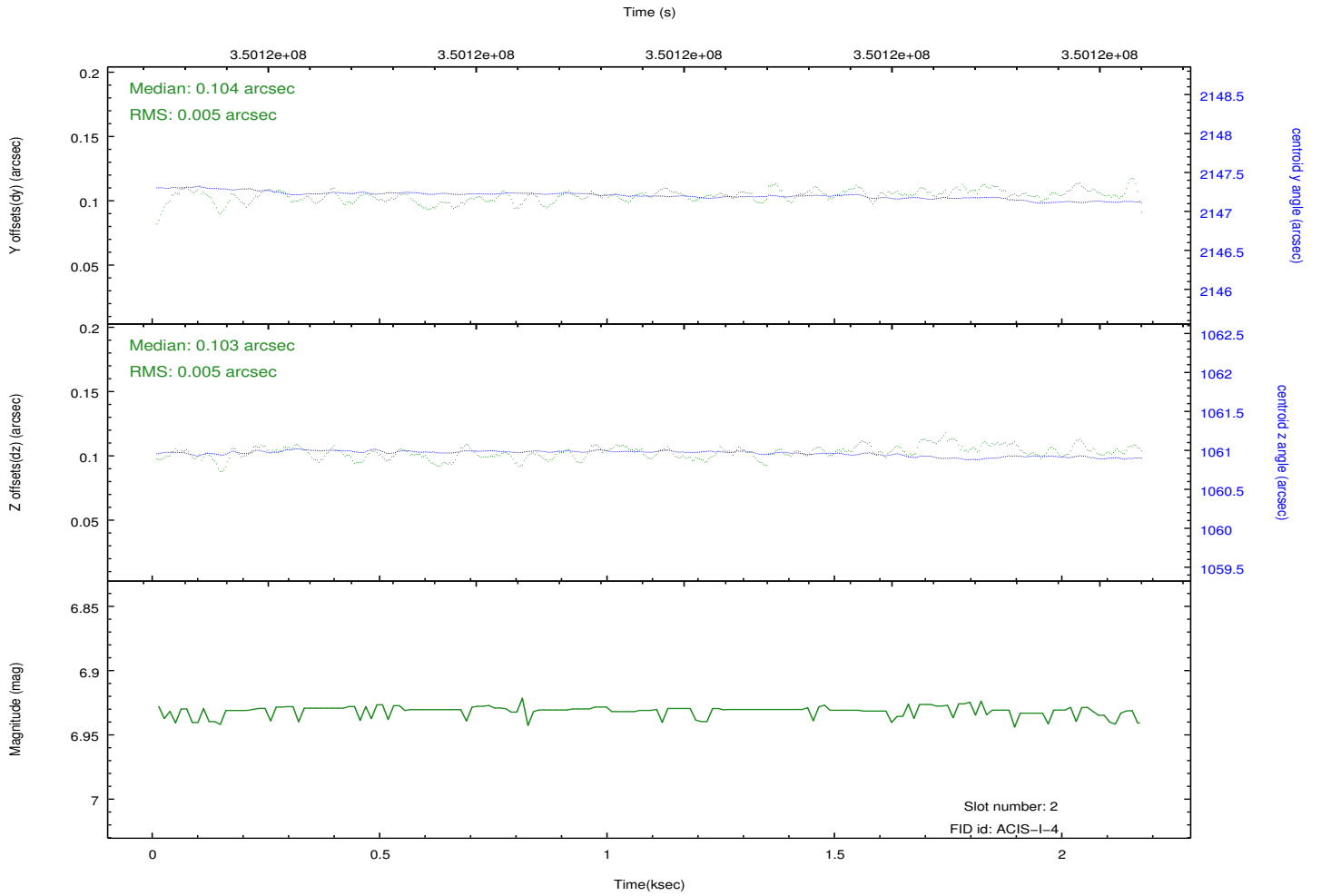
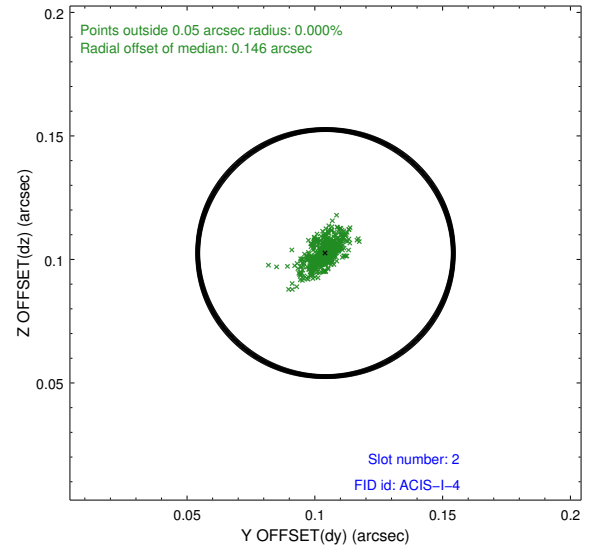
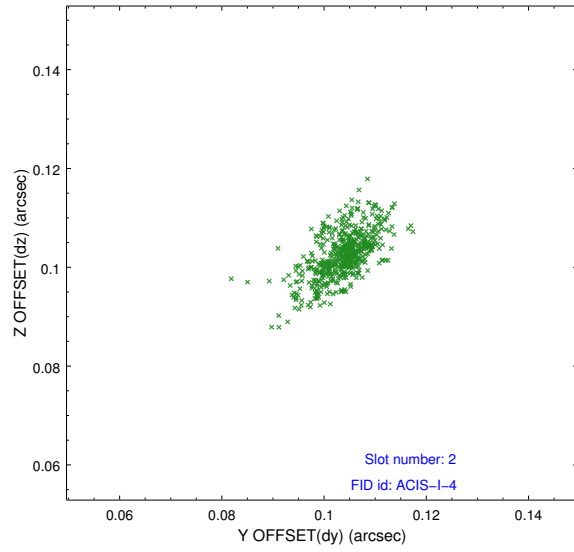
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.06.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.16690001 |

A.2 Comments

Joint Proposal:NOAO.