

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3114 - L2 Version 3
Chandra X-Ray Center

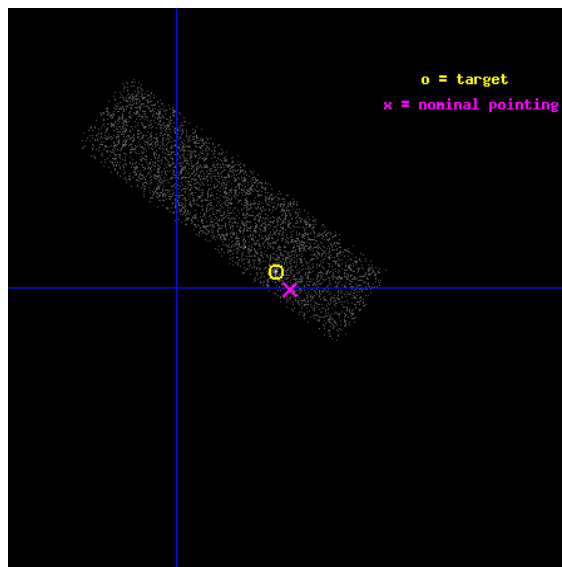
L2 Processing Date : Oct 10 2012

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1 Front

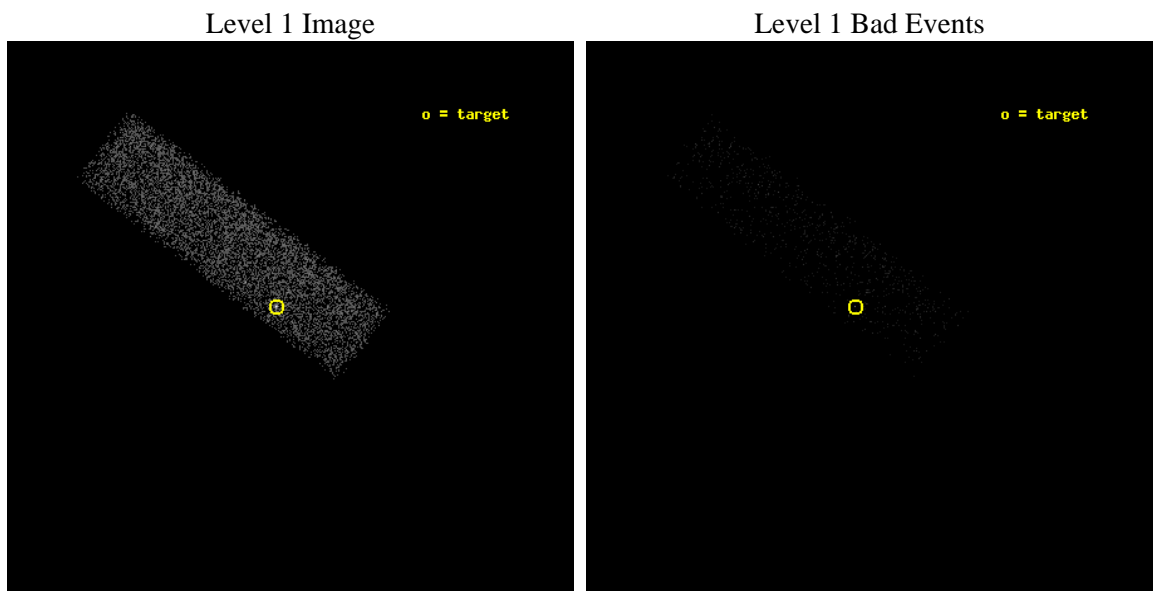
| | | |
|----------|--|---|
| seq_num | 700553 | Sequence number |
| obs_id | 3114 | Observation id |
| title | A COMPLETE SURVEY FOR X-RAY EMISSION FROM RADIO JETS | Proposal titl |
| observer | Dr. Herman Marshall | Principal investigator |
| object | 0920-397 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 140.693333 | Observer's specified target RA [deg] |
| dec_targ | -39.993083 | Observer's specified target Dec [deg] |
| ra_nom | 140.68550703688 | Nominal RA [deg] |
| dec_nom | -40.001018188014 | Nominal Dec [deg] |
| roll_nom | 217.15164942956 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4694.0308896601 | Sum of GTIs [s] |
| livetime | 4464.9775417675 | Livetime [s] |
| ontime7 | 4694.0308896601 | Sum of GTIs [s] |
| l2events | 4995 | Number of level 2 events |



2 OBI

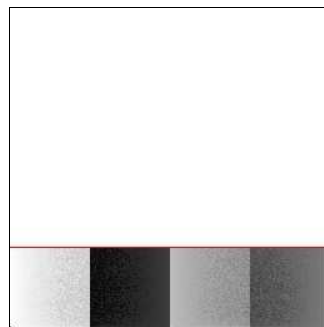
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4850.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 4694.0308896601 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime7 | 4694.0308896601 | Sum of GTIs [s] |
| date | 2012-10-10T03:54:26 | Date and time of file creation | l1events | 10854 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

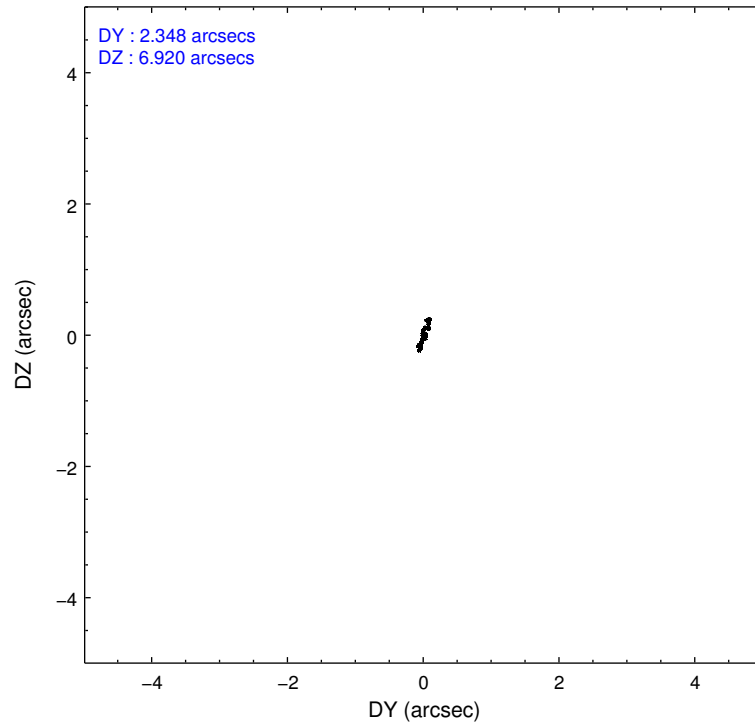
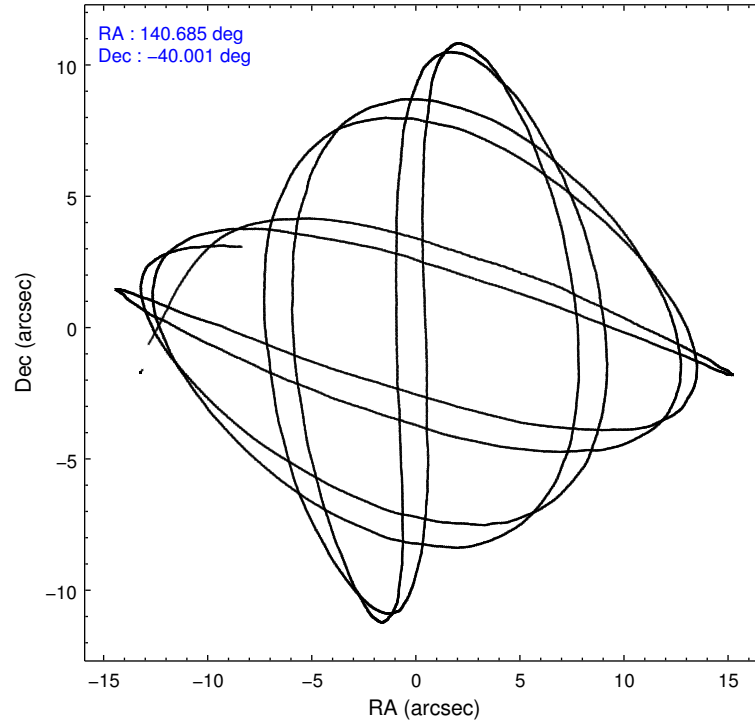
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 10854 |
| rejected events | 5690 |
| rejected % | 52% |

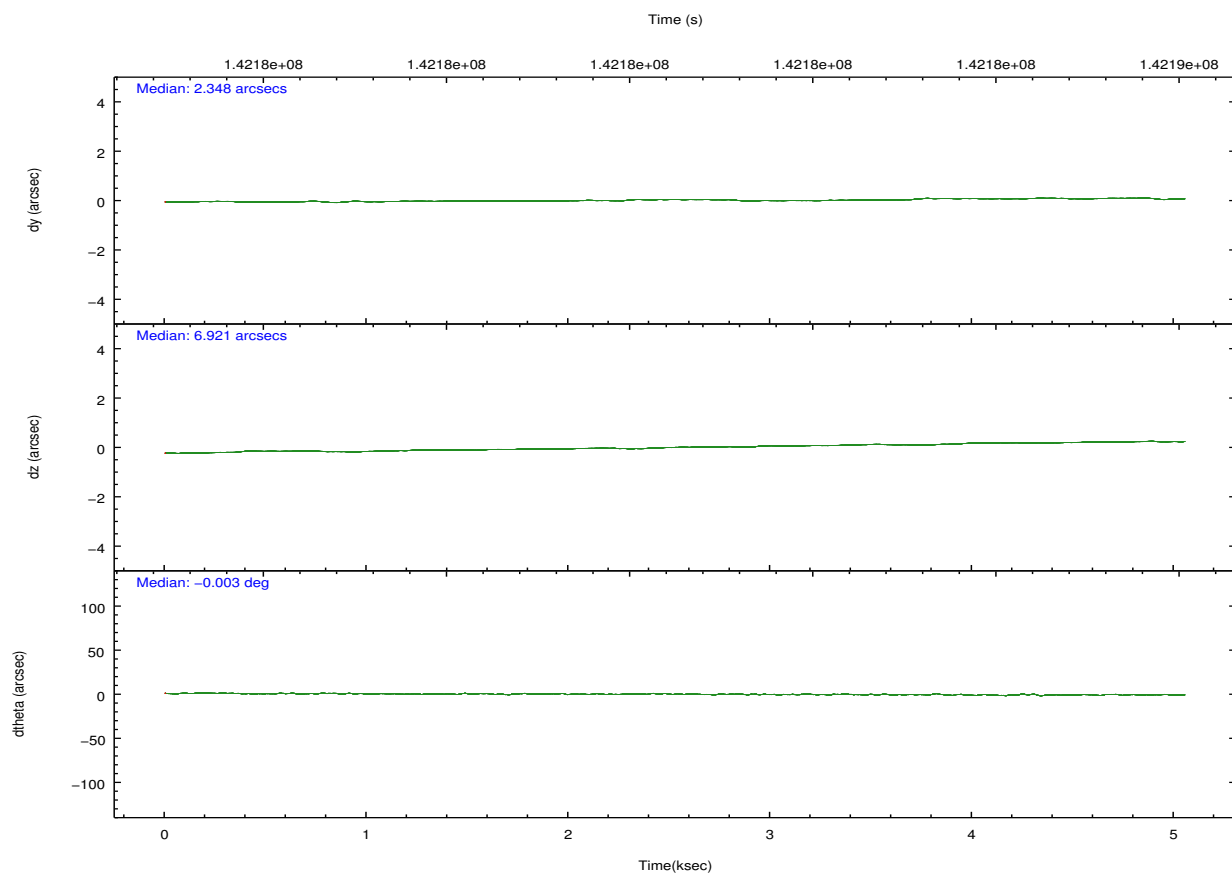
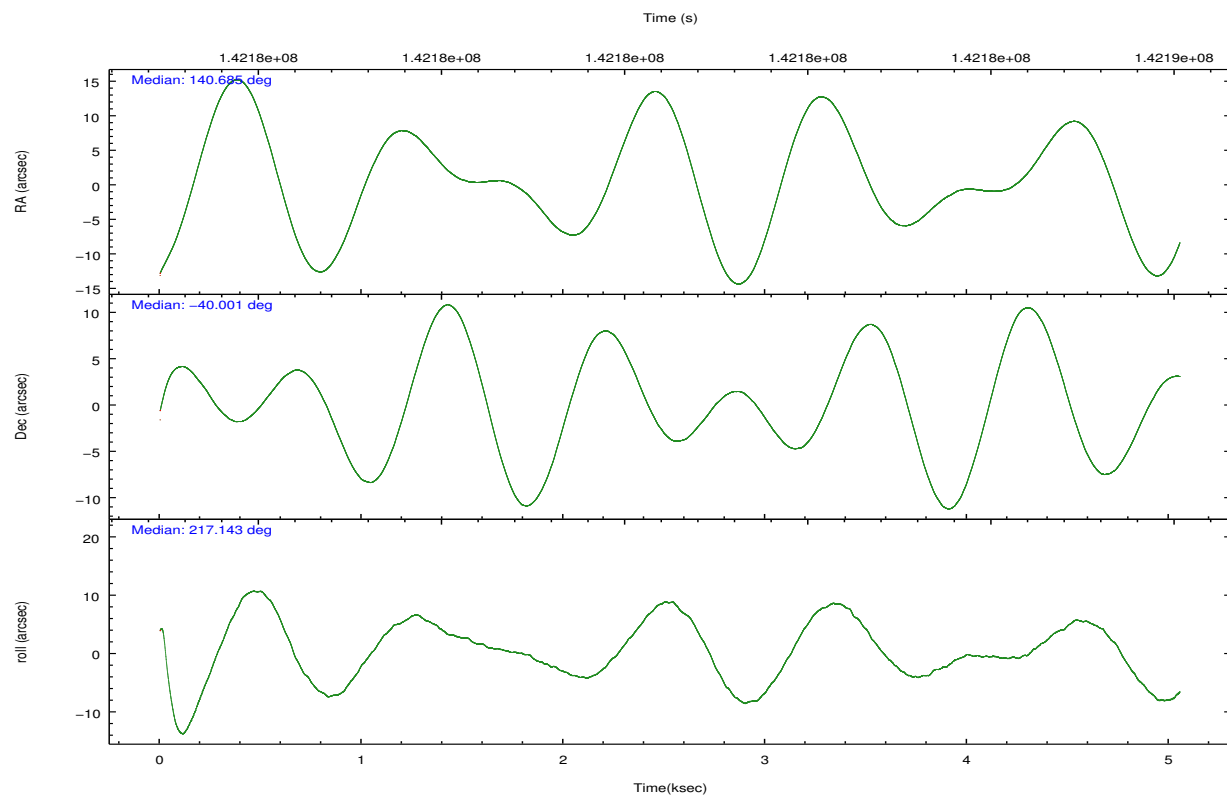
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 583 |
| | 5% |
| grade 1 events | 13 |
| | 0% |
| grade 2 events | 1095 |
| | 10% |
| grade 3 events | 604 |
| | 5% |
| grade 4 events | 560 |
| | 5% |
| grade 5 events | 918 |
| | 8% |
| grade 6 events | 2323 |
| | 21% |
| grade 7 events | 4758 |
| | 43% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-7 | ACIS-7 | 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 | 140.698930 | 140.6855070368821 | Subarray requested | CUSTOM | 1/4 |
| [deg] Pointing Dec | -39.975798 | -40.00101818801399 | Subarray start row | 1 | 1 |
| [deg] Pointing Roll | 217.003597 | 217.1516494295624 | Subarray row count | 256 | 256 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.8 |
| [mm] SIM translation stage pos | -178.632523 | -178.6395878605364 | | | |
| [mm] SIM translation stage offset | -11.5 | -11.49293472247138 | | | |
| [s] Observation start time (MET) | 142180928.184000 | 142180259.74674 | | | |
| Observation start date | 2002-07-04T14:41:04 | 2002-07-04T14:30:59 | | | |
| [s] Observation end time (MET) | 142185778.184000 | 142186493.2845 | | | |
| Observation end date | 2002-07-04T16:01:54 | 2002-07-04T16:14:53 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



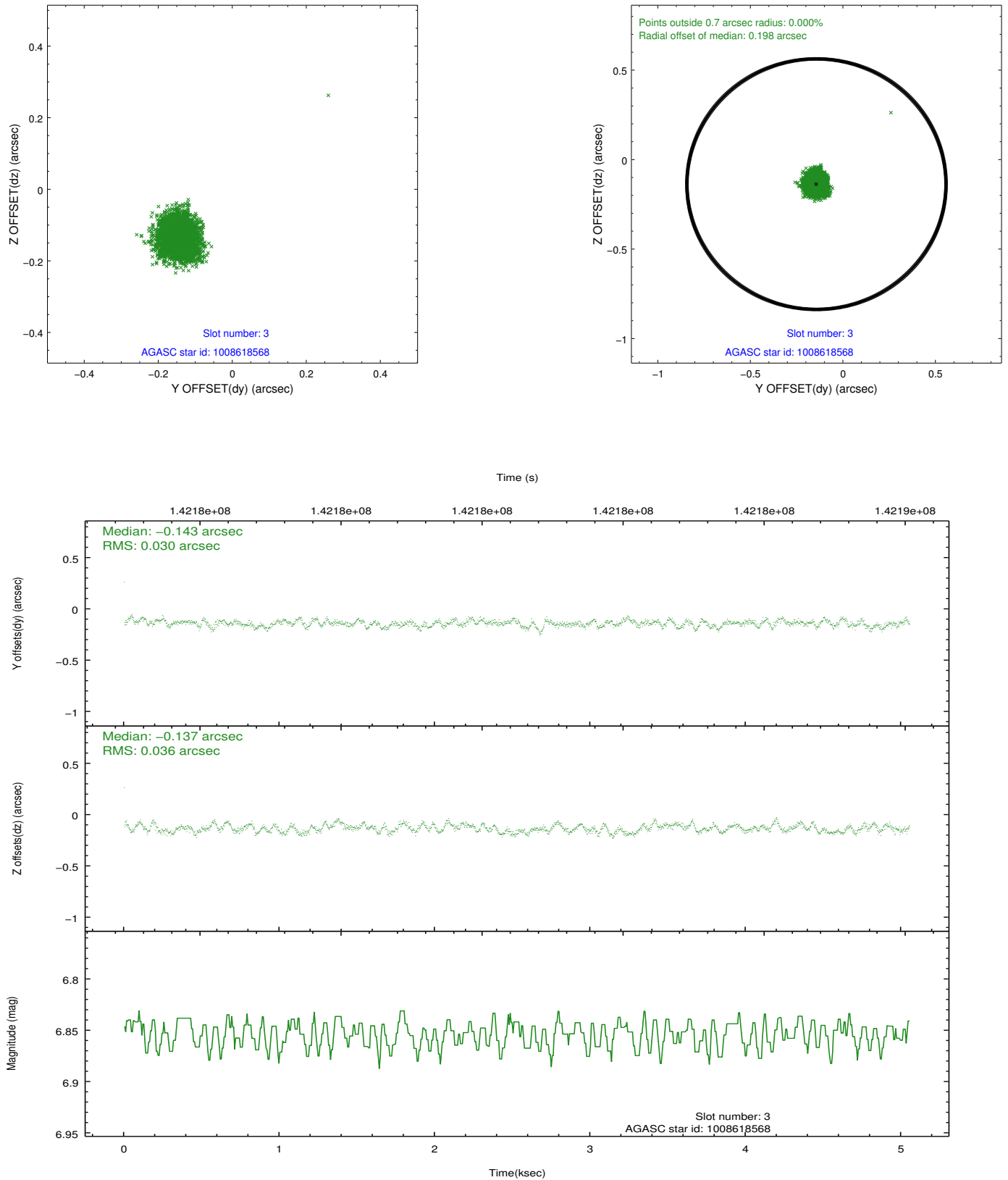


Slot Statistics

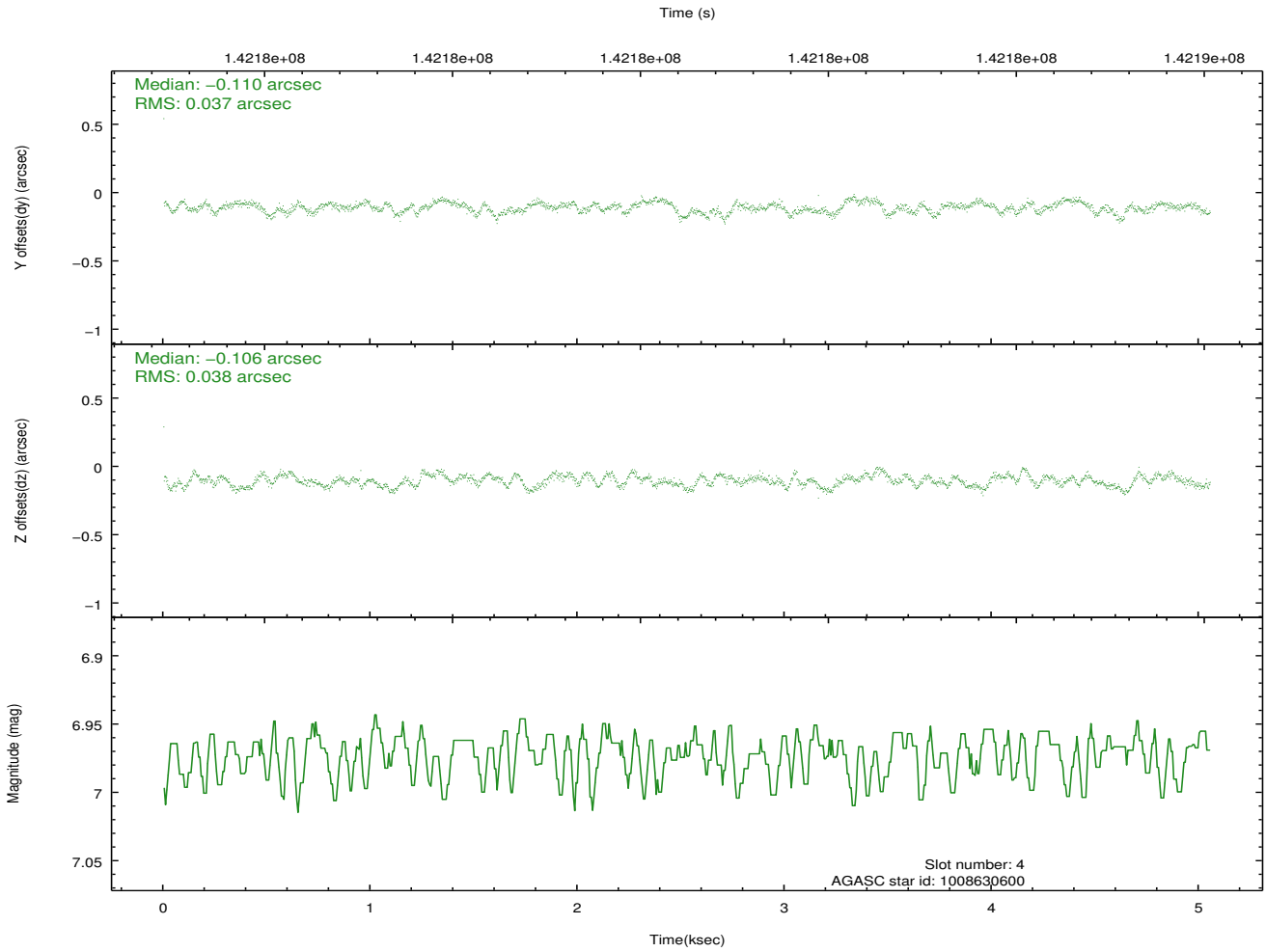
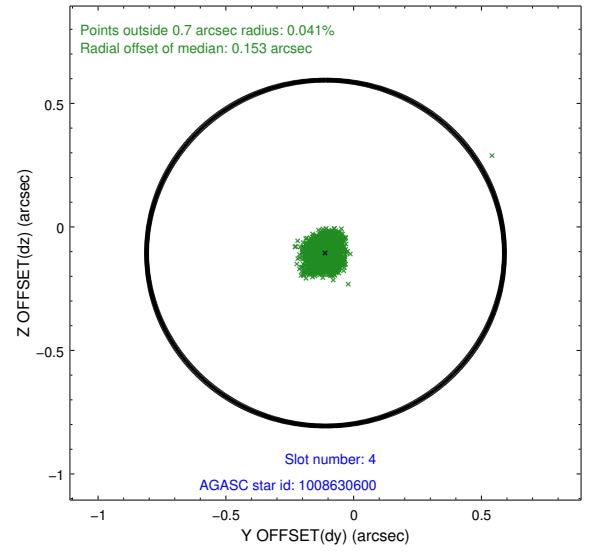
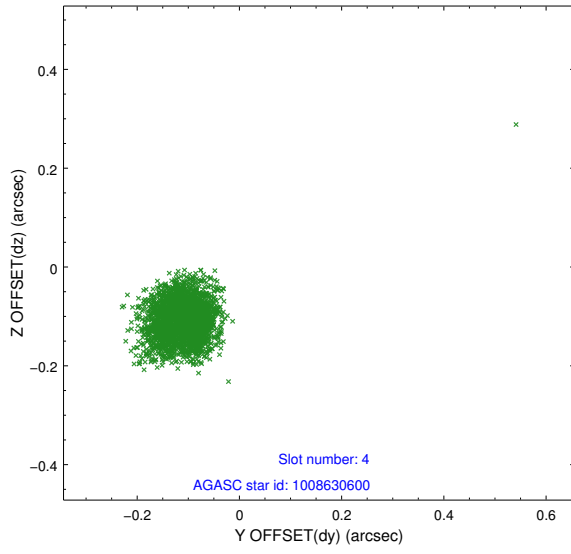
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-3 | 7.35 | 1230 | -0.076 | -0.184 | 0.008 | 0.013 | 0.000000 | 0.000000 | 58.95 | -2093.92 |
| 1 | FID | ACIS-S-4 | 7.17 | 1224 | 0.037 | 0.127 | 0.007 | 0.011 | 0.000000 | 0.000000 | 2159.30 | -57.68 |
| 2 | FID | ACIS-S-5 | 7.22 | 1226 | 0.010 | 0.065 | 0.008 | 0.014 | 0.000000 | 0.000000 | -1805.40 | -62.50 |
| 3 | GUIDE | 1008618568 | 6.85 | 2458 | -0.143 | -0.137 | 0.050 | 0.076 | 141.414530 | -40.314117 | -831.54 | 2162.03 |
| 4 | GUIDE | 1008630600 | 6.97 | 2464 | -0.110 | -0.106 | 0.055 | 0.086 | 140.586703 | -39.380142 | -1041.47 | -1898.60 |
| 5 | GUIDE | 1006916072 | 8.33 | 2462 | 0.006 | -0.044 | 0.079 | 0.119 | 139.701345 | -39.757450 | 1740.77 | -2276.59 |
| 6 | GUIDE | 1008606024 | 8.72 | 2463 | -0.081 | 0.094 | 0.080 | 0.130 | 141.777317 | -39.966643 | -2384.94 | 1778.74 |
| 7 | GUIDE | 1008631264 | 9.58 | 2461 | 0.327 | 0.192 | 0.122 | 0.199 | 140.465538 | -40.778615 | 2247.09 | 1928.16 |

2.4 Star Slots

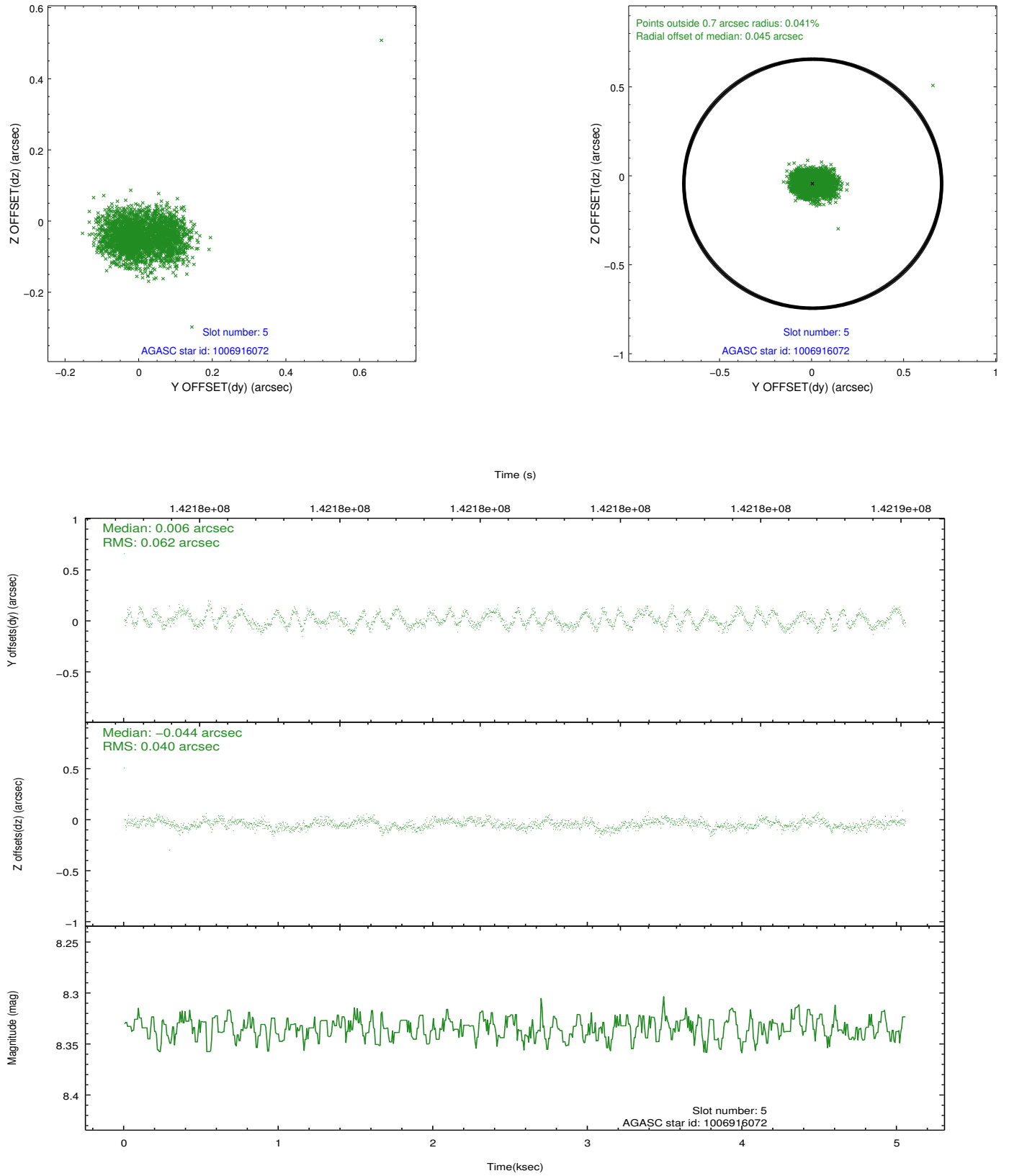
2.4.1 Slot 3



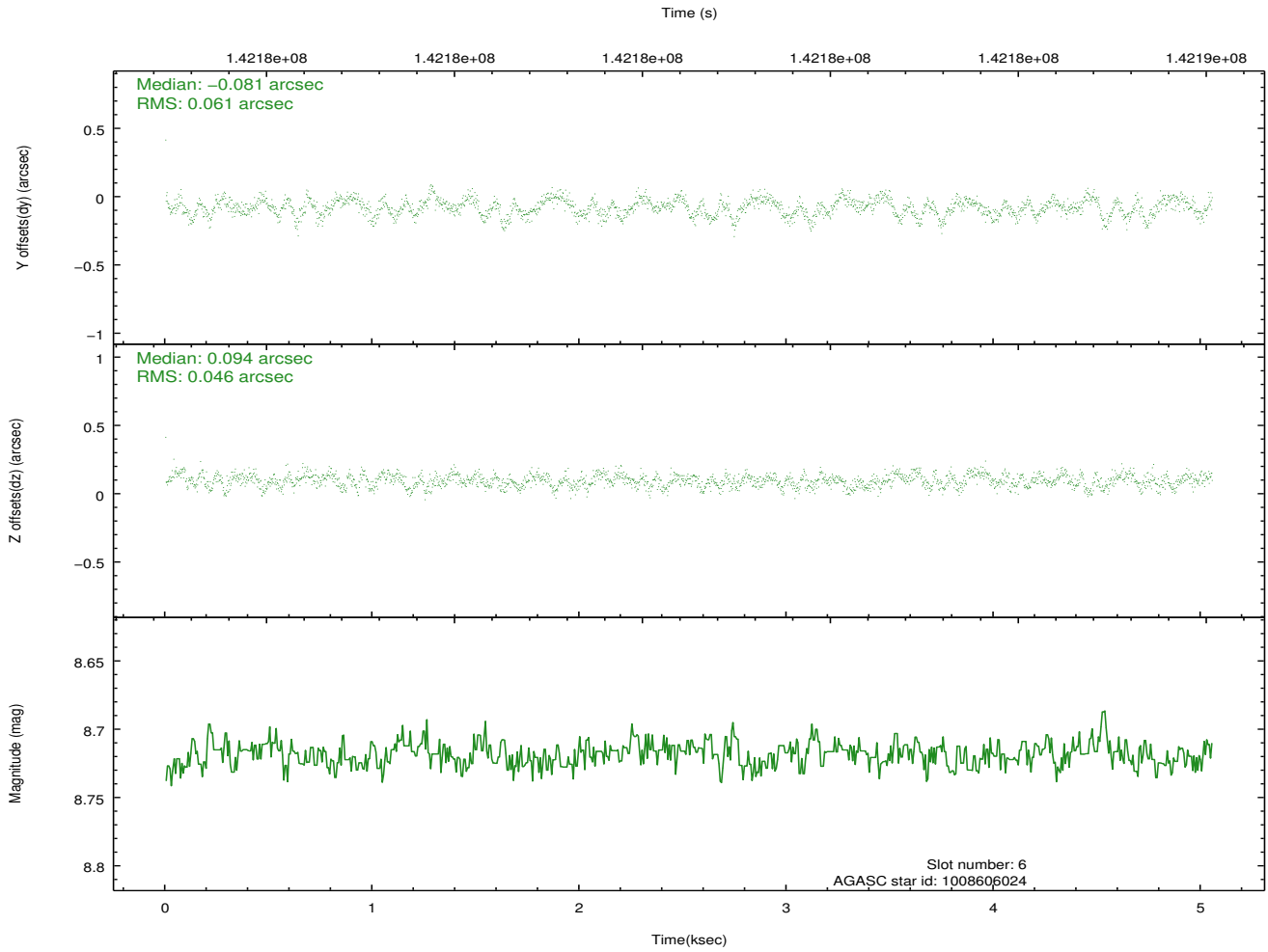
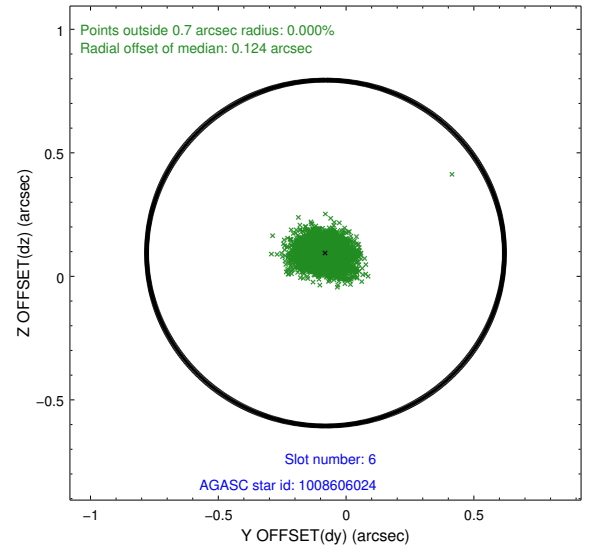
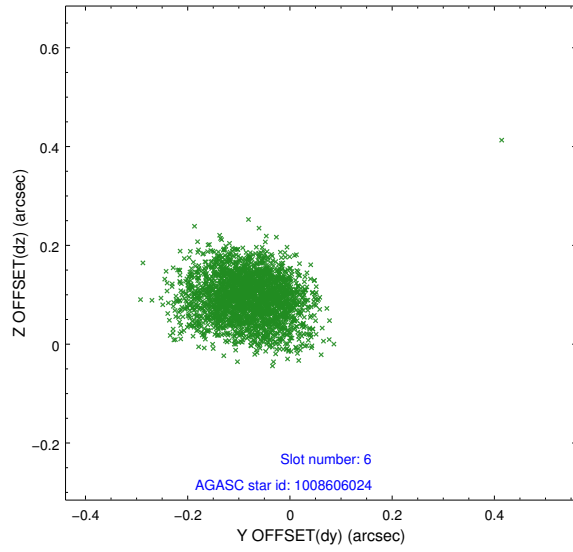
2.4.2 Slot 4



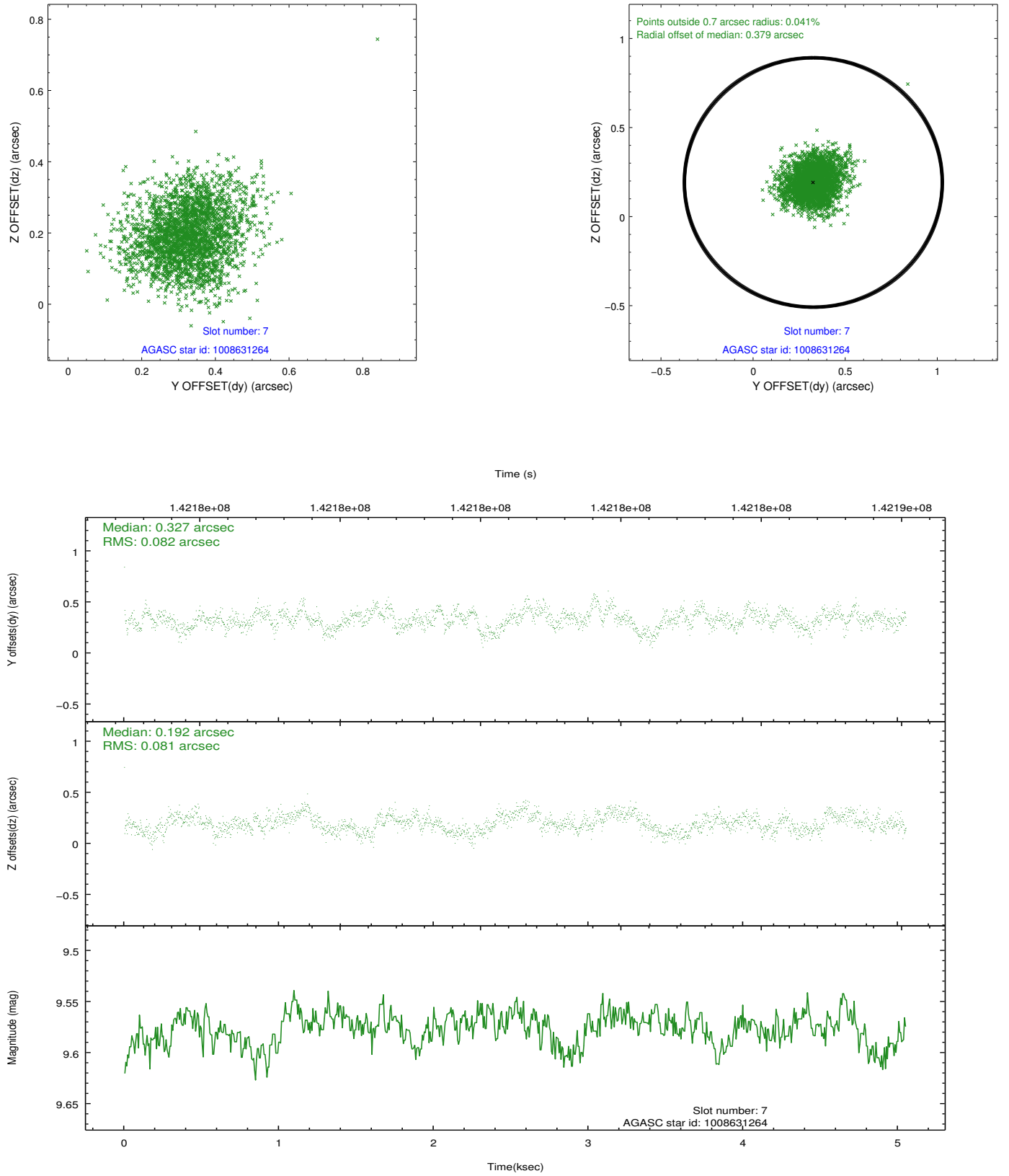
2.4.3 Slot 5



2.4.4 Slot 6

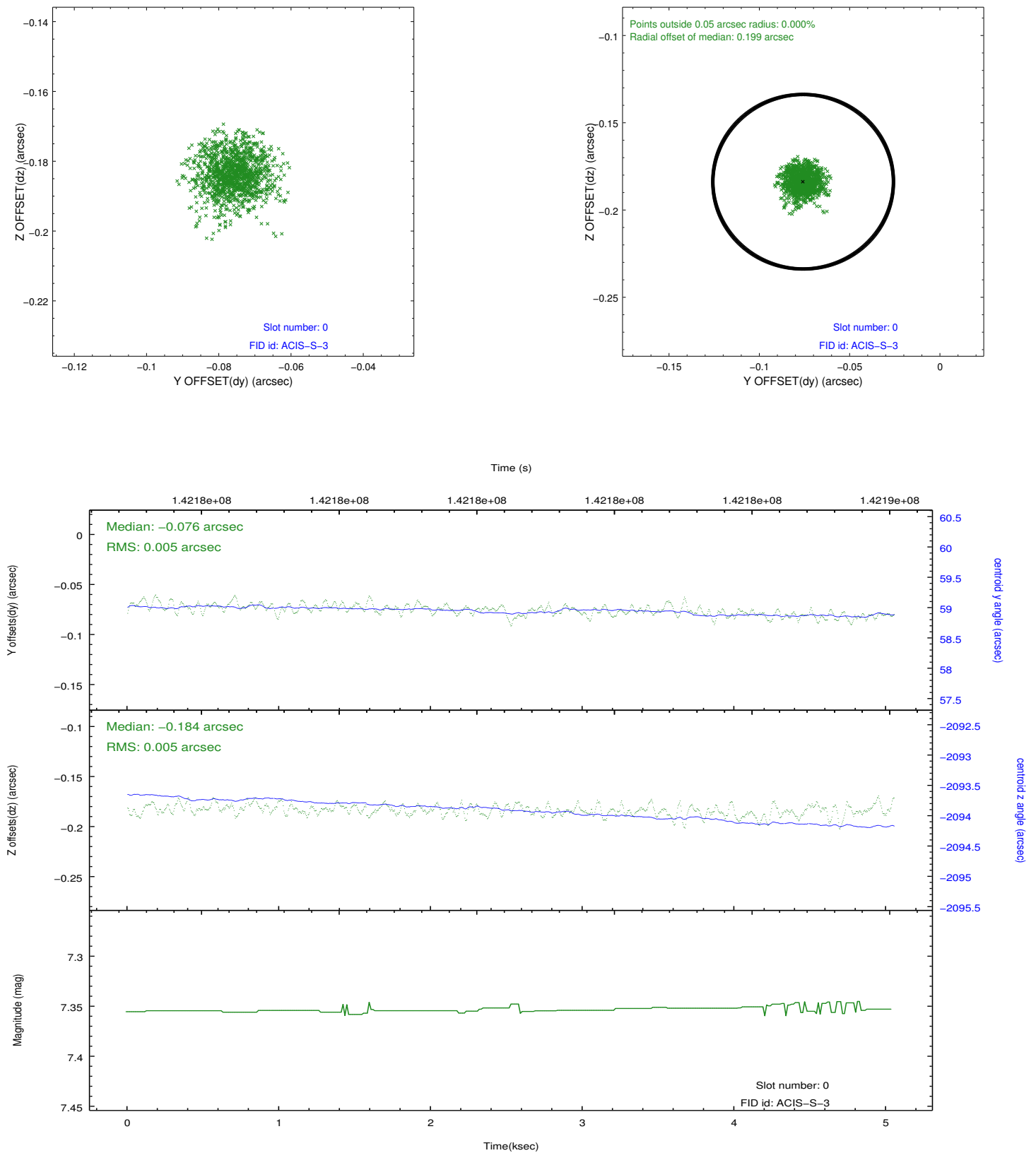


2.4.5 Slot 7

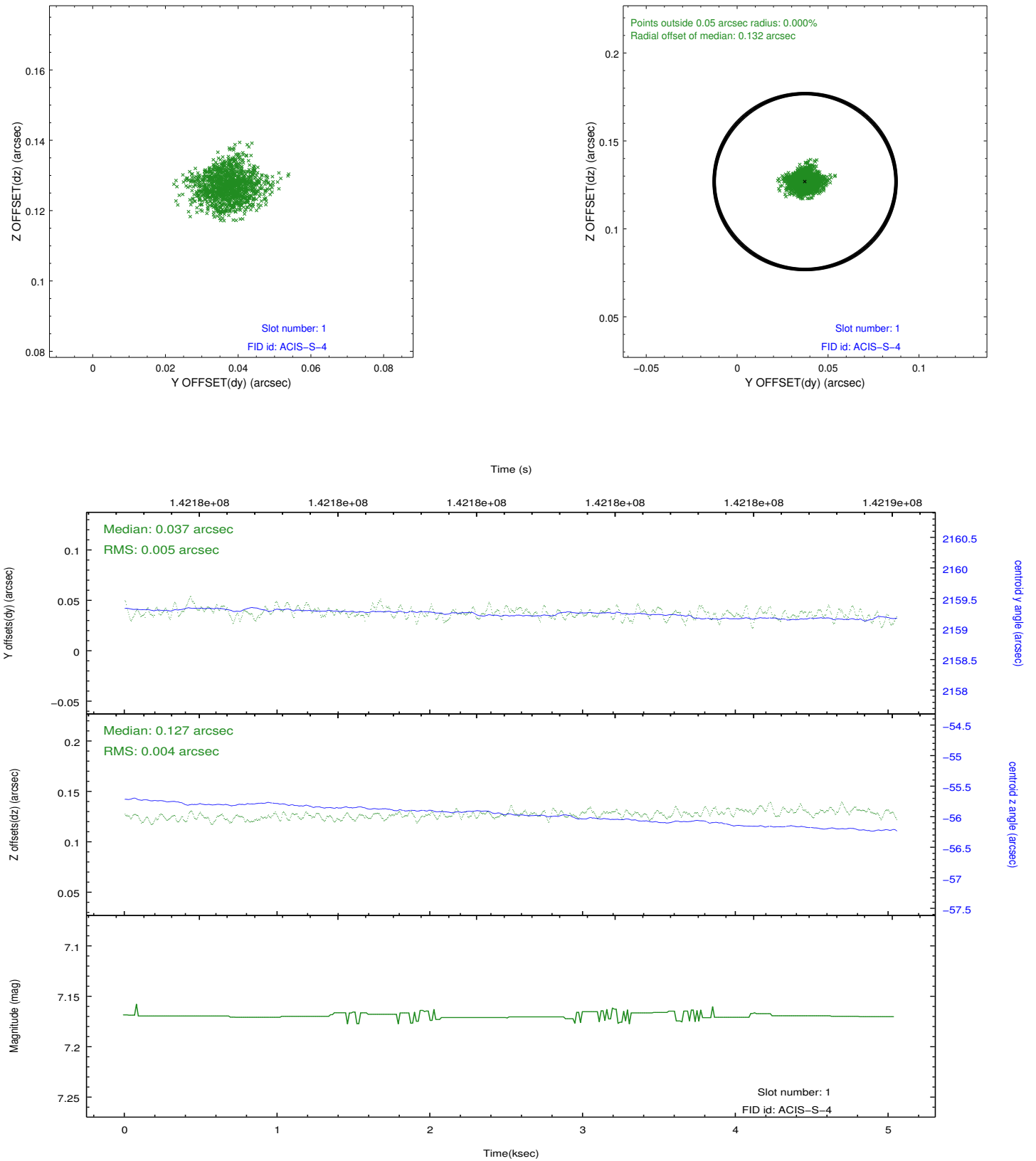


2.5 FID Slots

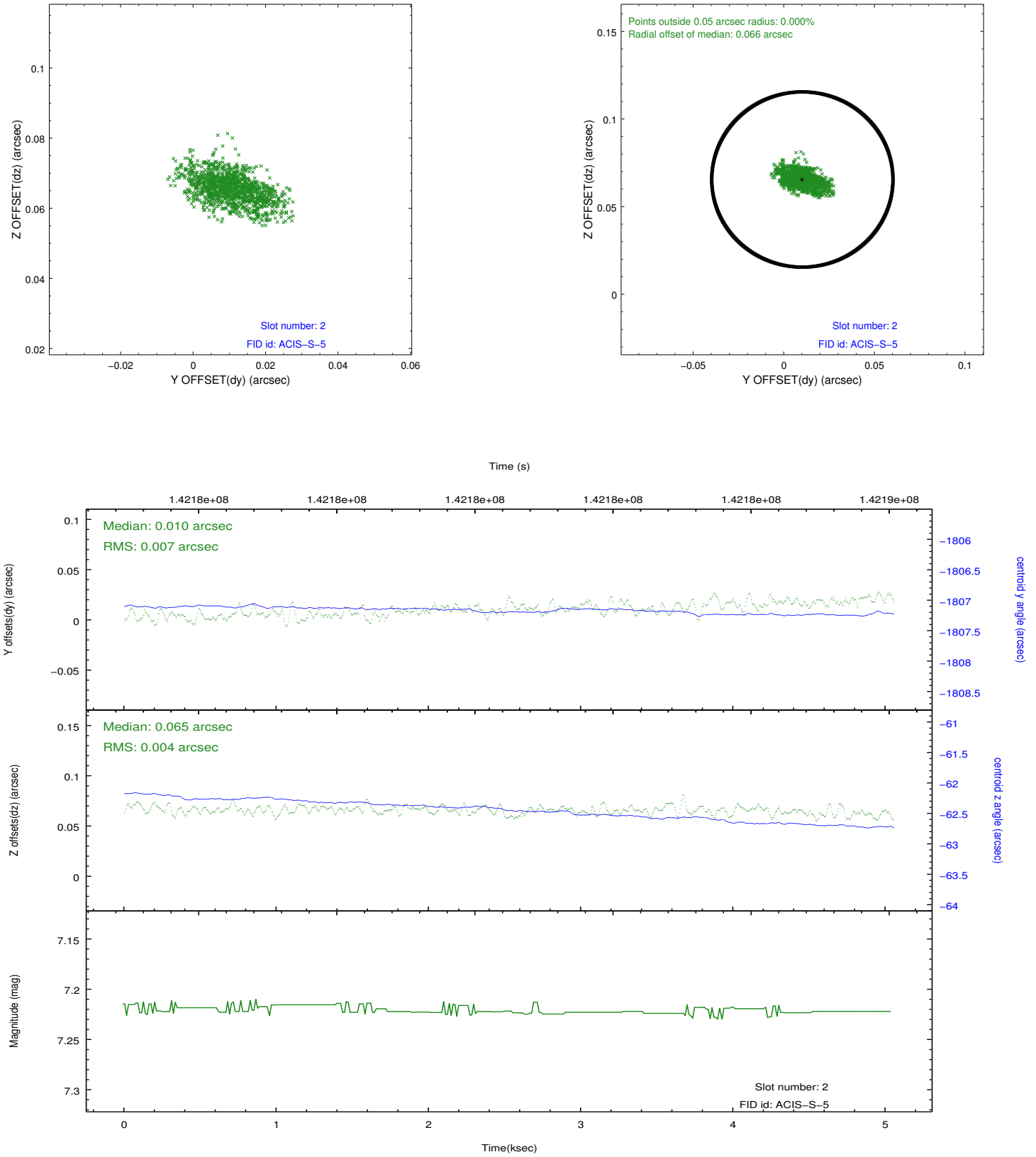
2.5.1 Slot 0



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) | 2012.10.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.694 |

A.2 Comments

Roll preference met.