

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10506 - L2 Version 2
Chandra X-Ray Center

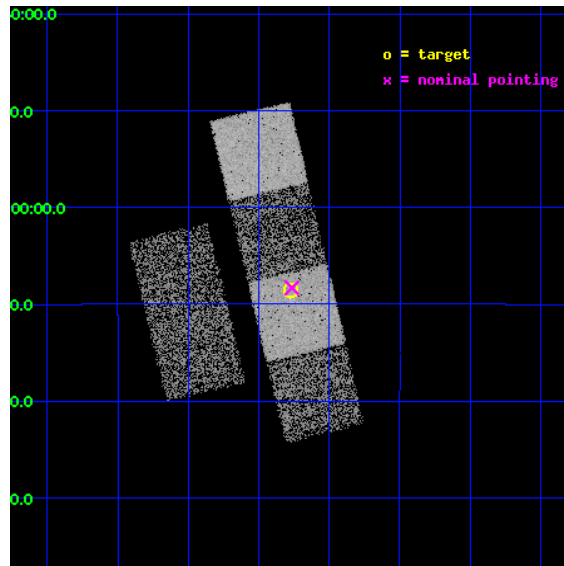
L2 Processing Date : May 30 2012

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1 Front

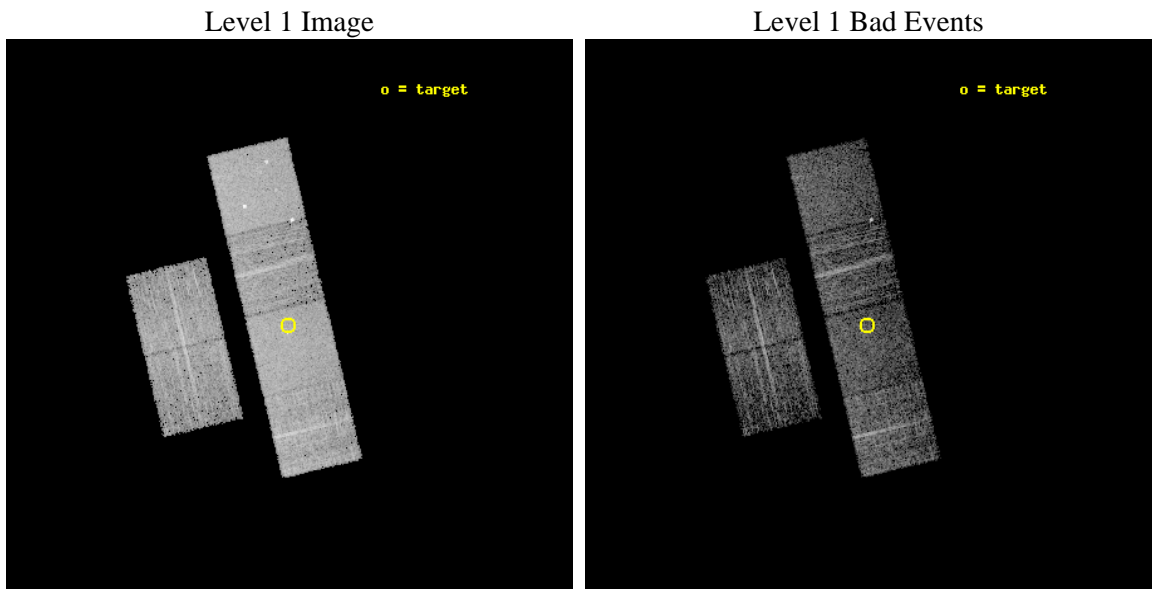
| | | |
|----------|--|---|
| seq_num | 900874 | Sequence number |
| obs_id | 10506 | Observation id |
| title | ChIcAGO: Chandra Identification of ASCA Galactic Objects | Proposal |
| observer | Prof. Bryan Gaensler | Principal investigator |
| object | AX J183116-1008 | Source name |
| dtycycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 277.817917 | Observer's specified target RA [deg] |
| dec_targ | -10.143 | Observer's specified target Dec [deg] |
| ra_nom | 277.81621904937 | Nominal RA [deg] |
| dec_nom | -10.138487113566 | Nominal Dec [deg] |
| roll_nom | 76.656424294334 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 2854.3999894261 | Sum of GTIs [s] |
| livetime | 2818.2558580467 | Livetime [s] |
| ontime2 | 2854.3999894261 | Sum of GTIs [s] |
| ontime3 | 2854.3999894261 | Sum of GTIs [s] |
| ontime5 | 2854.3999894261 | Sum of GTIs [s] |
| ontime6 | 2854.3999894261 | Sum of GTIs [s] |
| ontime7 | 2854.3999894261 | Sum of GTIs [s] |
| ontime8 | 2847.9180483818 | Sum of GTIs [s] |
| l2events | 51058 | Number of level 2 events |



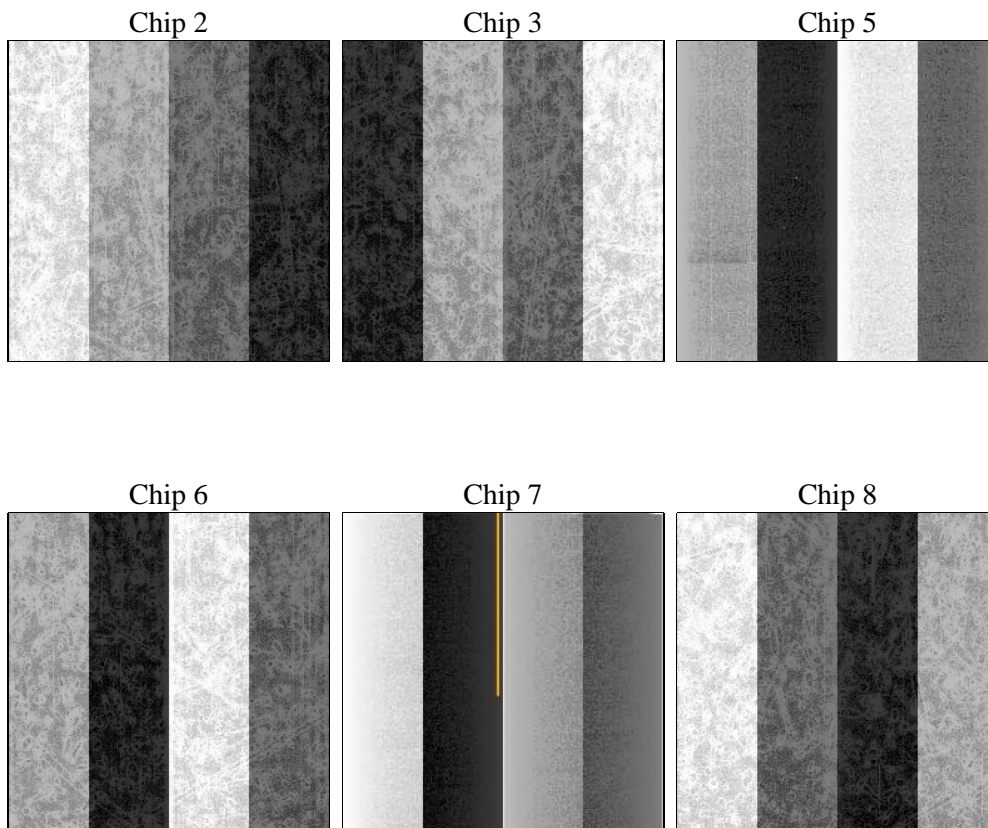
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3100.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 2854.3999894261 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime2 | 2854.3999894261 | Sum of GTIs [s] |
| date | 2012-05-30T23:01:41 | Date and time of file creation | ontime3 | 2854.3999894261 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 2854.3999894261 | Sum of GTIs [s] |
| | | | ontime6 | 2854.3999894261 | Sum of GTIs [s] |
| | | | ontime7 | 2854.3999894261 | Sum of GTIs [s] |
| | | | ontime8 | 2847.9180483818 | Sum of GTIs [s] |
| | | | l1events | 219111 | Number of level 1 events |

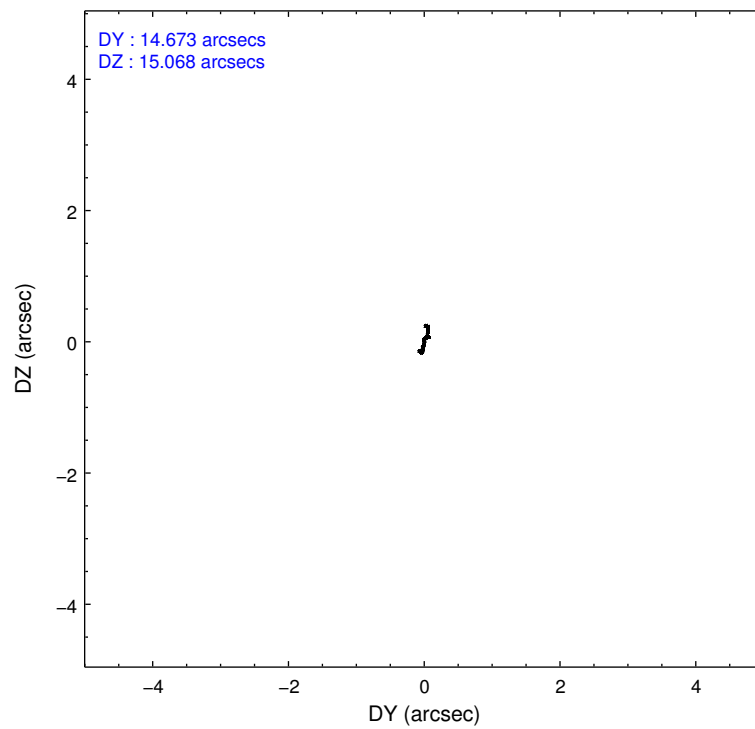
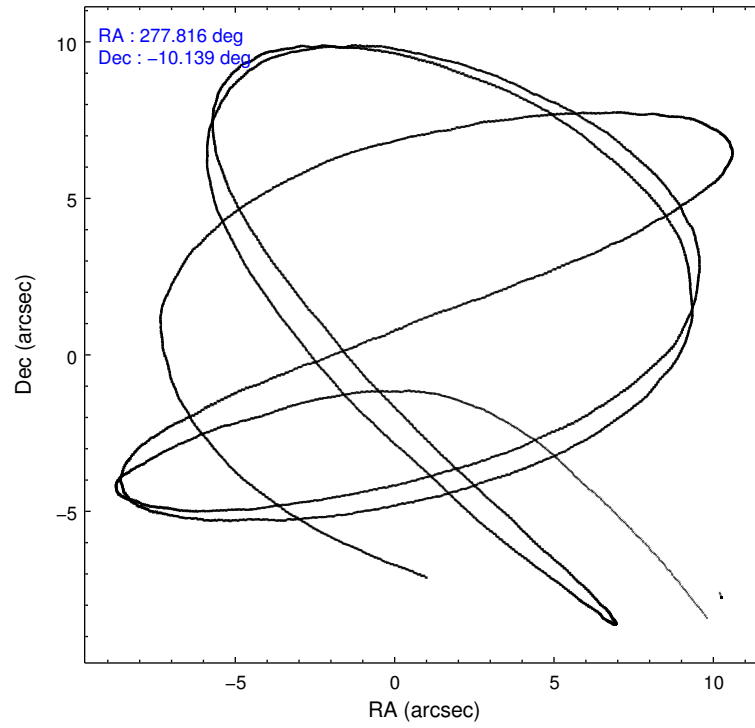
2.1.4 Events

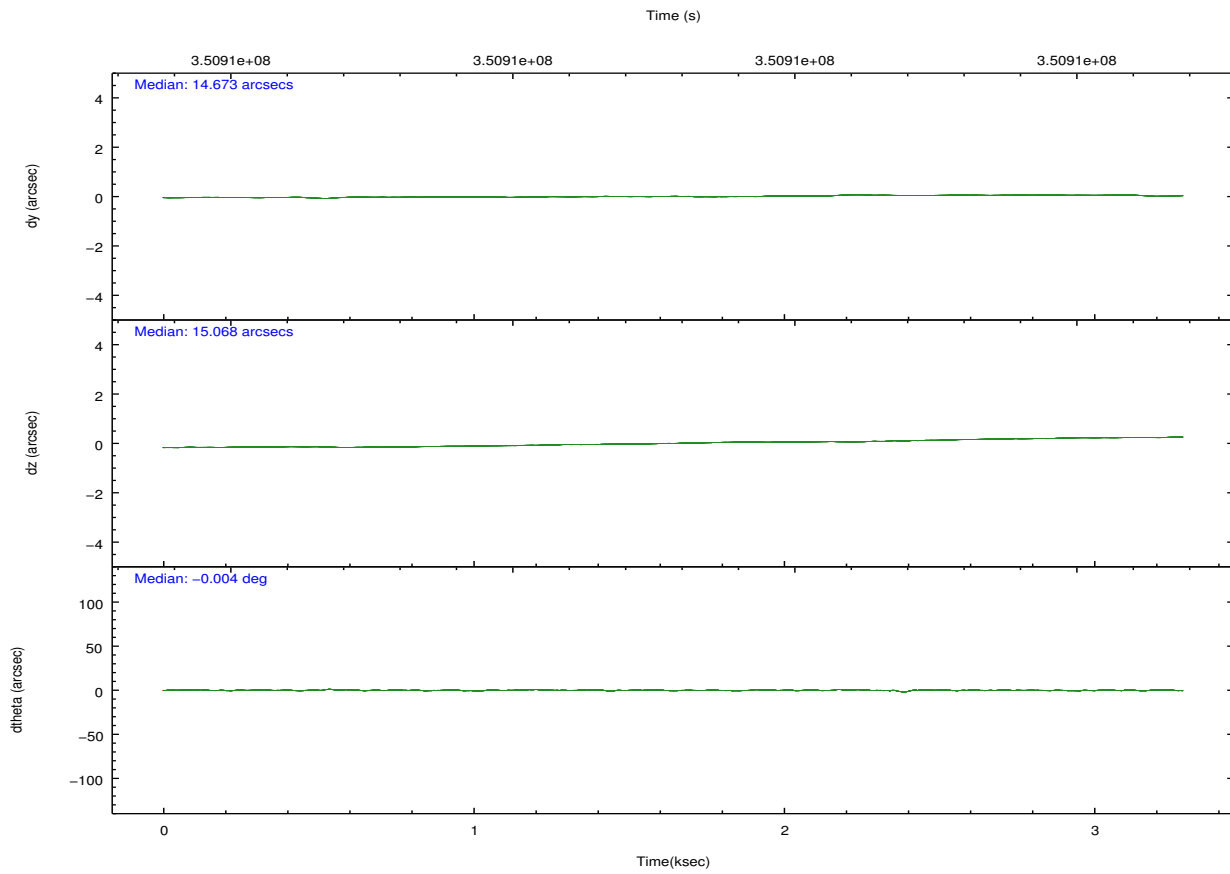
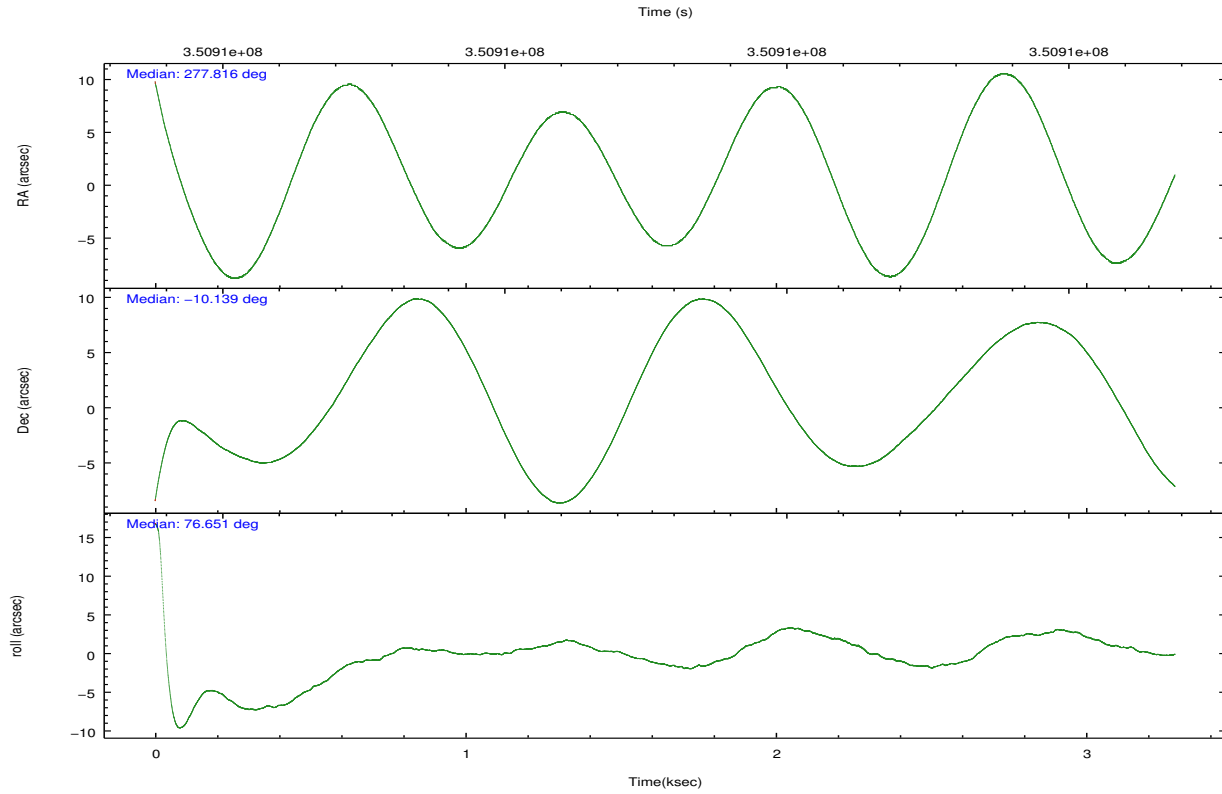
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 31578 | 27316 | 48347 | 30018 | 41597 | 40255 | grade 0 events | 1647 | 1620 | 2520 | 1586 | 1556 | 2858 |
| rejected events | 27838 | 23691 | 25993 | 26131 | 23927 | 31542 | | 5% | 5% | 5% | 5% | 3% | 7% |
| rejected % | 88% | 86% | 53% | 87% | 57% | 78% | grade 1 events | 16 | 24 | 230 | 13 | 37 | 49 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 820 | 706 | 6729 | 854 | 3542 | 2019 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 5% |
| | | | | | | | grade 3 events | 333 | 356 | 741 | 359 | 1454 | 840 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 344 | 321 | 754 | 346 | 1456 | 767 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 5 events | 1207 | 1369 | 3462 | 1385 | 3670 | 1867 |
| | | | | | | | | 3% | 5% | 7% | 4% | 8% | 4% |
| | | | | | | | grade 6 events | 603 | 626 | 11649 | 747 | 9709 | 2248 |
| | | | | | | | | 1% | 2% | 24% | 2% | 23% | 5% |
| | | | | | | | grade 7 events | 26608 | 22294 | 22262 | 24728 | 20173 | 29607 |
| | | | | | | | | 84% | 81% | 46% | 82% | 48% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 277.824696 | 277.8162190493689 | CCD I2 on | O2 | Y |
| [deg] Pointing Dec | -10.164488 | -10.13848711356579 | CCD I3 on | O3 | Y |
| [deg] Pointing Roll | 76.501197 | 76.65642429433427 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | O1 | Y |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | O5 | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | CCD S4 on | O4 | Y |
| [s] Observation start time (MET) | 350906105.184000 | 350905019.13337 | CCD S5 on | N | N |
| Observation start date | 2009-02-13T09:53:59 | 2009-02-13T09:36:59 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 350909205.184000 | 350909420.99609 | On-chip summing requested | N | N |
| Observation end date | 2009-02-13T10:45:39 | 2009-02-13T10:50:20 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.2 |

2.3 Aspect



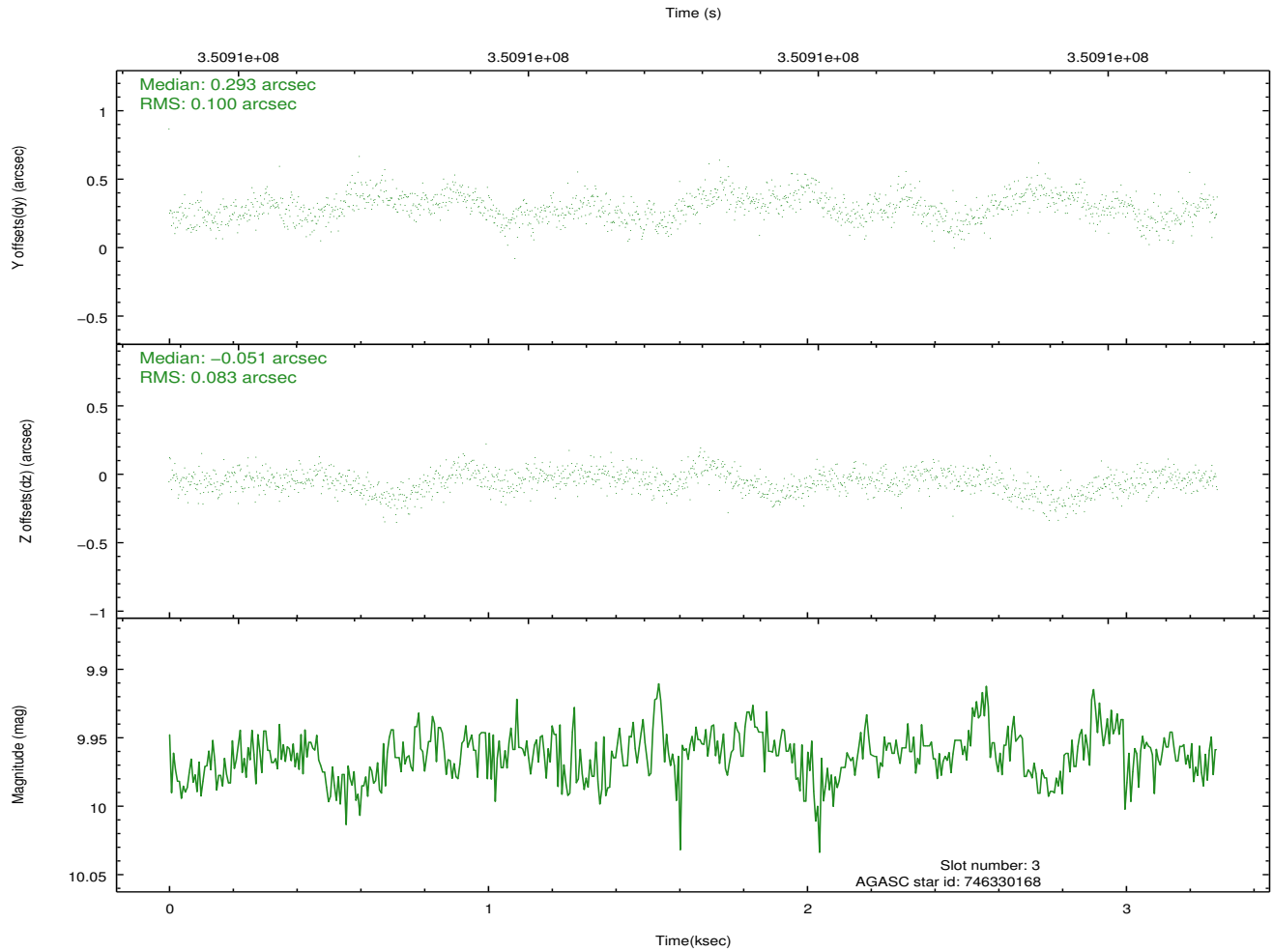
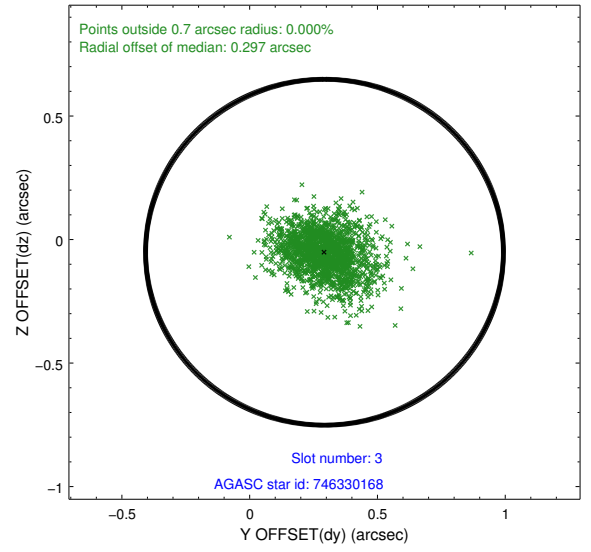
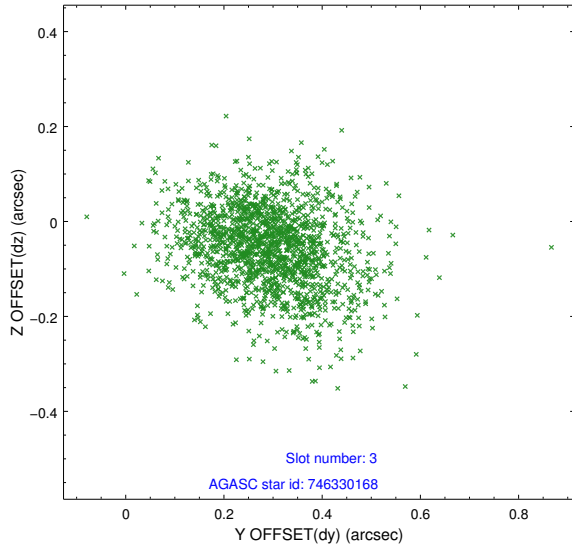


Slot Statistics

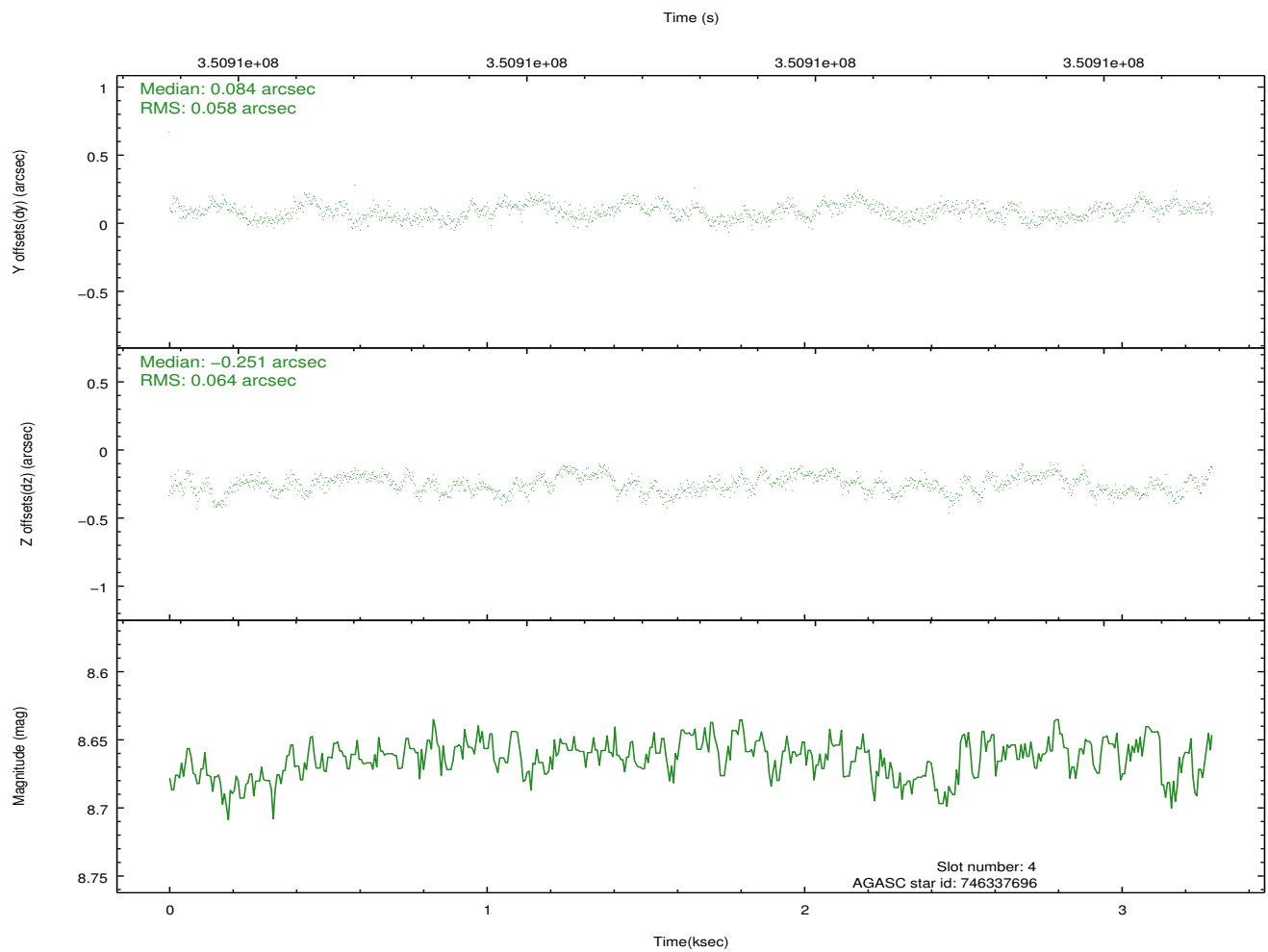
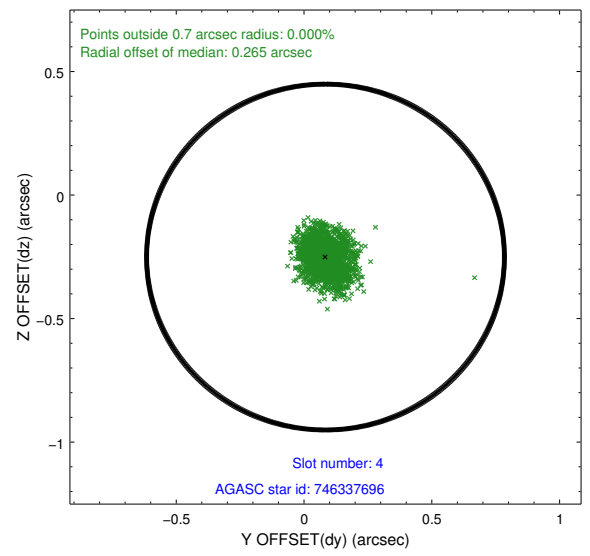
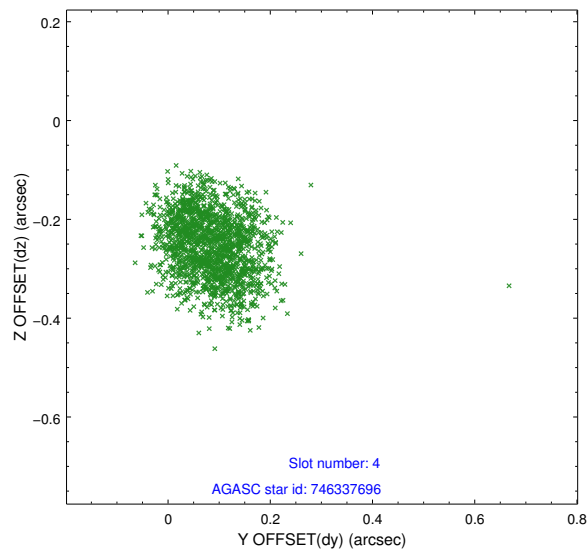
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 6.93 | 802 | -0.084 | -0.016 | 0.007 | 0.013 | 0.000000 | 0.000000 | -767.71 | -1736.43 |
| 1 | FID | ACIS-S-4 | 7.02 | 802 | 0.189 | 0.045 | 0.006 | 0.012 | 0.000000 | 0.000000 | 2144.94 | 170.13 |
| 2 | FID | ACIS-S-5 | 7.05 | 802 | -0.136 | -0.021 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1818.14 | 165.90 |
| 3 | GUIDE | 746330168 | 9.96 | 1601 | 0.293 | -0.051 | 0.137 | 0.231 | 277.465724 | -10.675287 | -2084.40 | 804.91 |
| 4 | GUIDE | 746337696 | 8.66 | 1604 | 0.084 | -0.251 | 0.092 | 0.140 | 277.198817 | -10.226535 | -738.00 | 2102.71 |
| 5 | GUIDE | 746338440 | 9.69 | 1602 | -0.332 | -0.072 | 0.108 | 0.183 | 277.545963 | -9.496982 | 2104.91 | 1524.39 |
| 6 | GUIDE | 746338464 | 9.43 | 1601 | 0.182 | 0.003 | 0.105 | 0.164 | 277.427613 | -10.292647 | -775.81 | 1260.33 |
| 7 | GUIDE | 746455152 | 7.82 | 1603 | -0.229 | 0.379 | 0.052 | 0.084 | 278.447893 | -9.976732 | 1171.08 | -1990.31 |

2.4 Star Slots

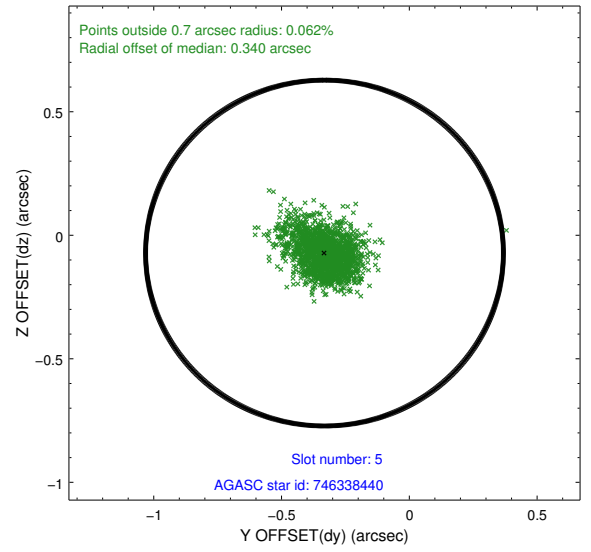
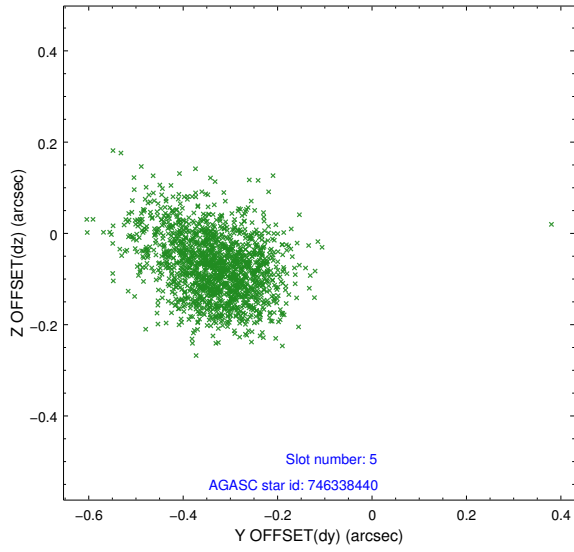
2.4.1 Slot 3



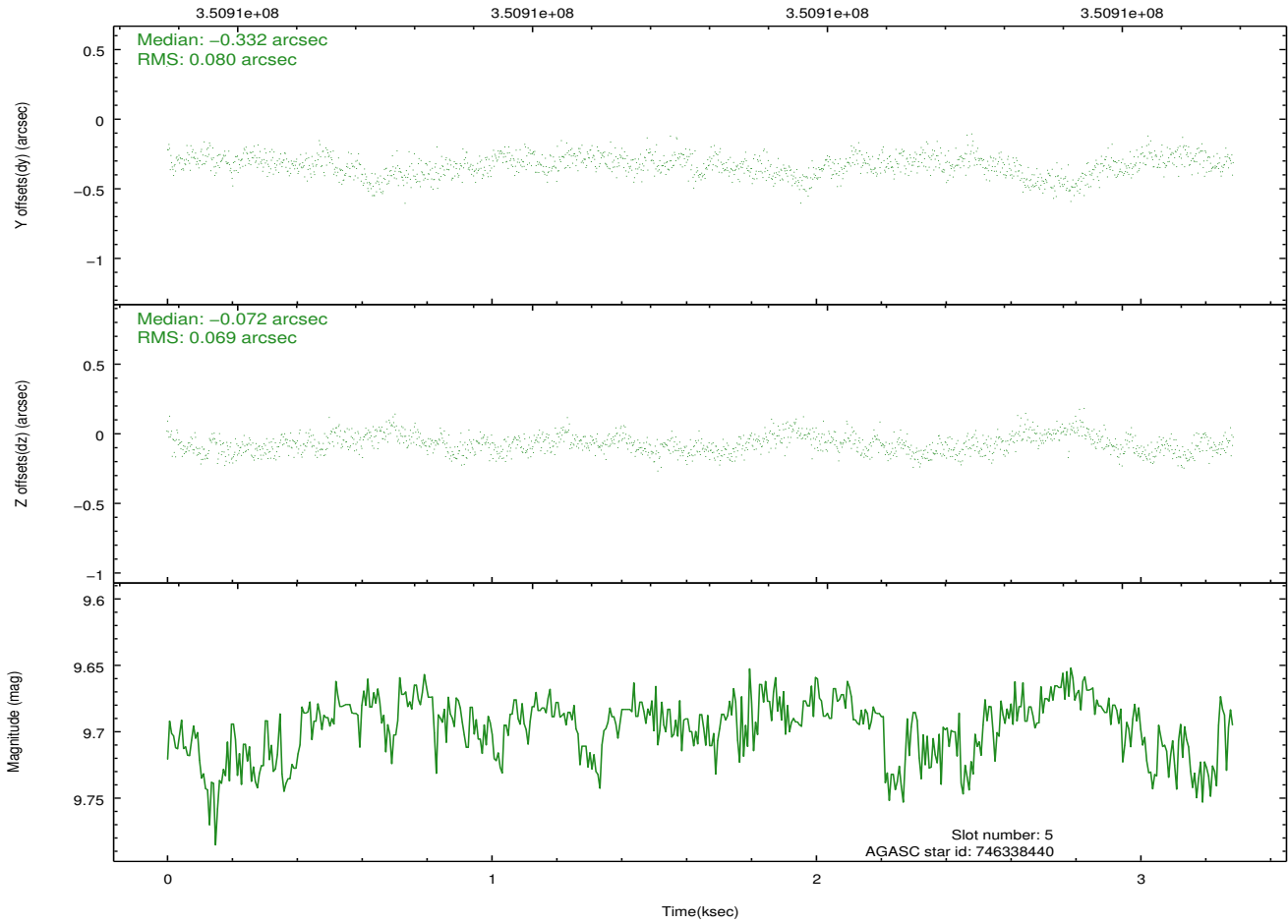
2.4.2 Slot 4



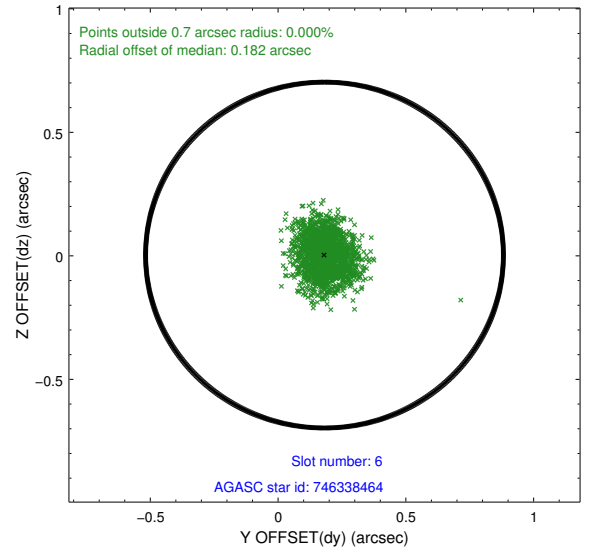
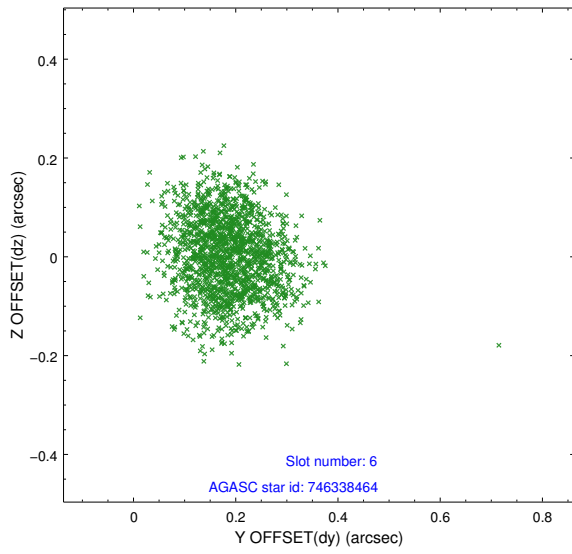
2.4.3 Slot 5



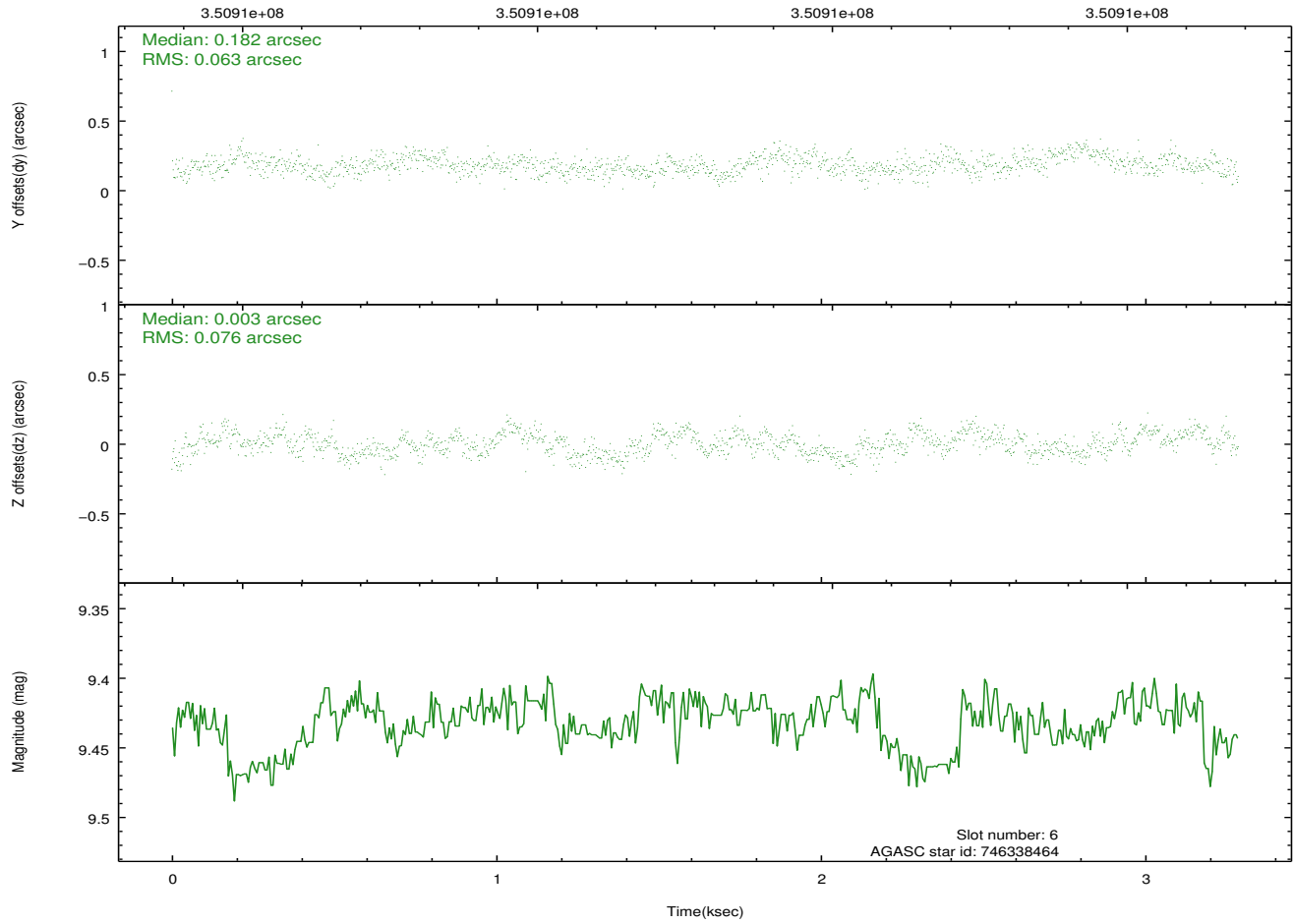
Time (s)



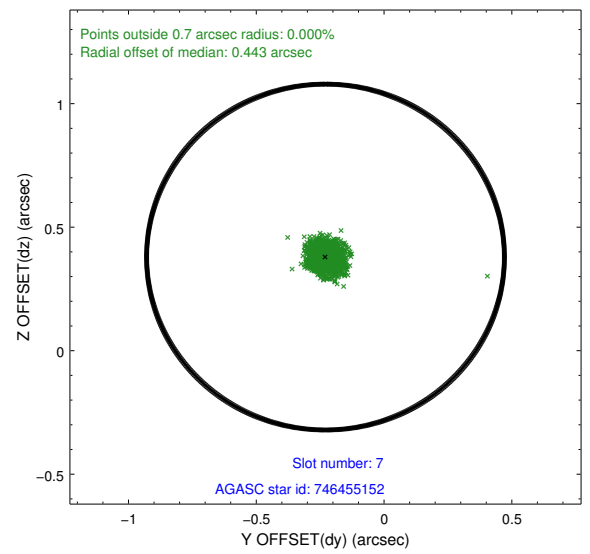
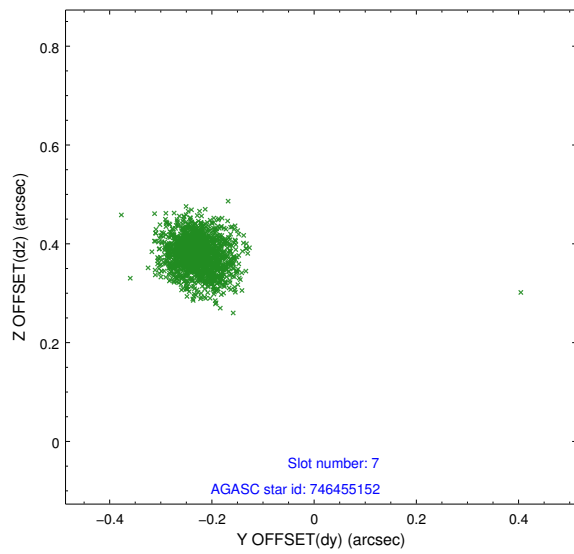
2.4.4 Slot 6



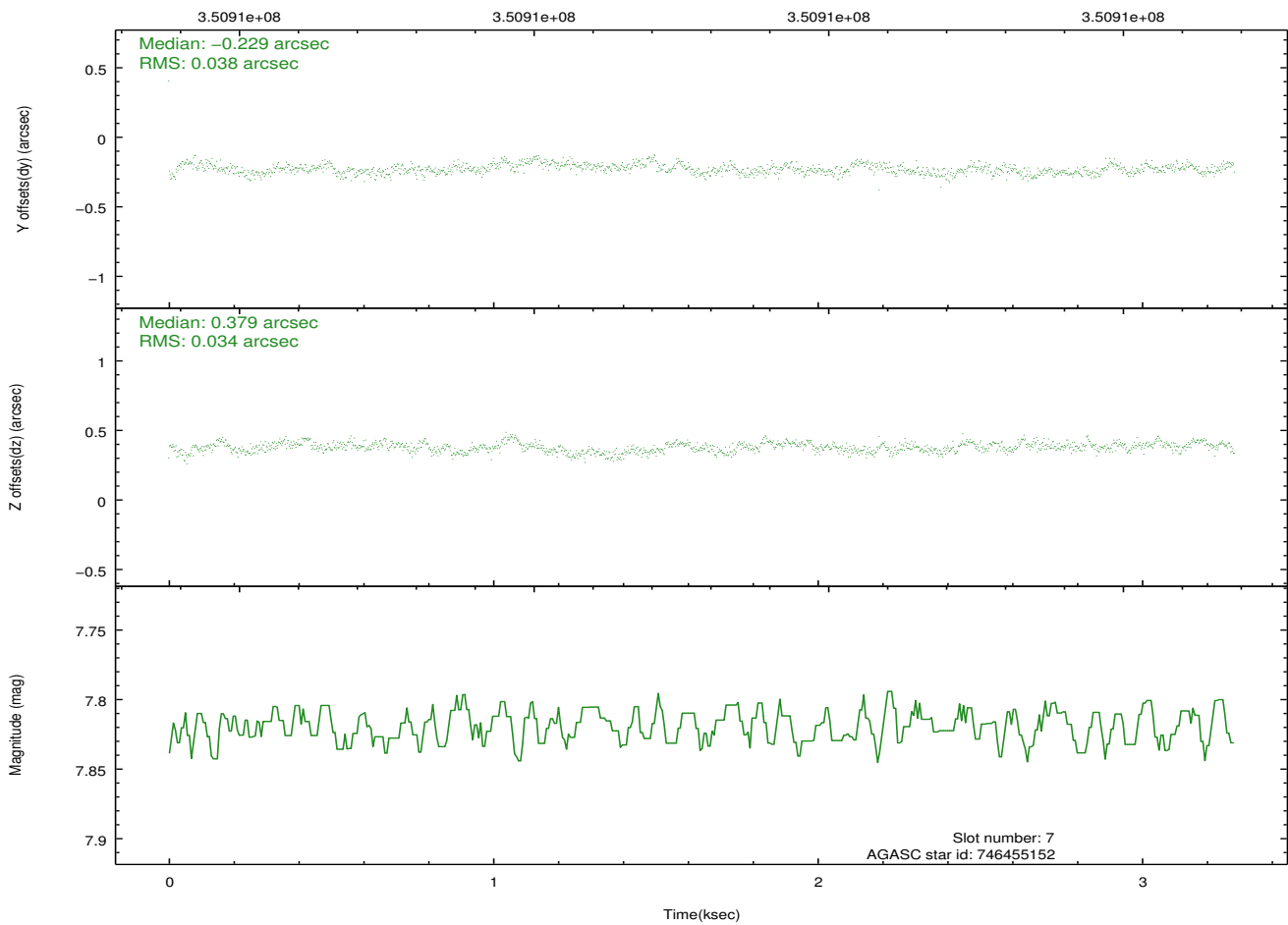
Time (s)



2.4.5 Slot 7

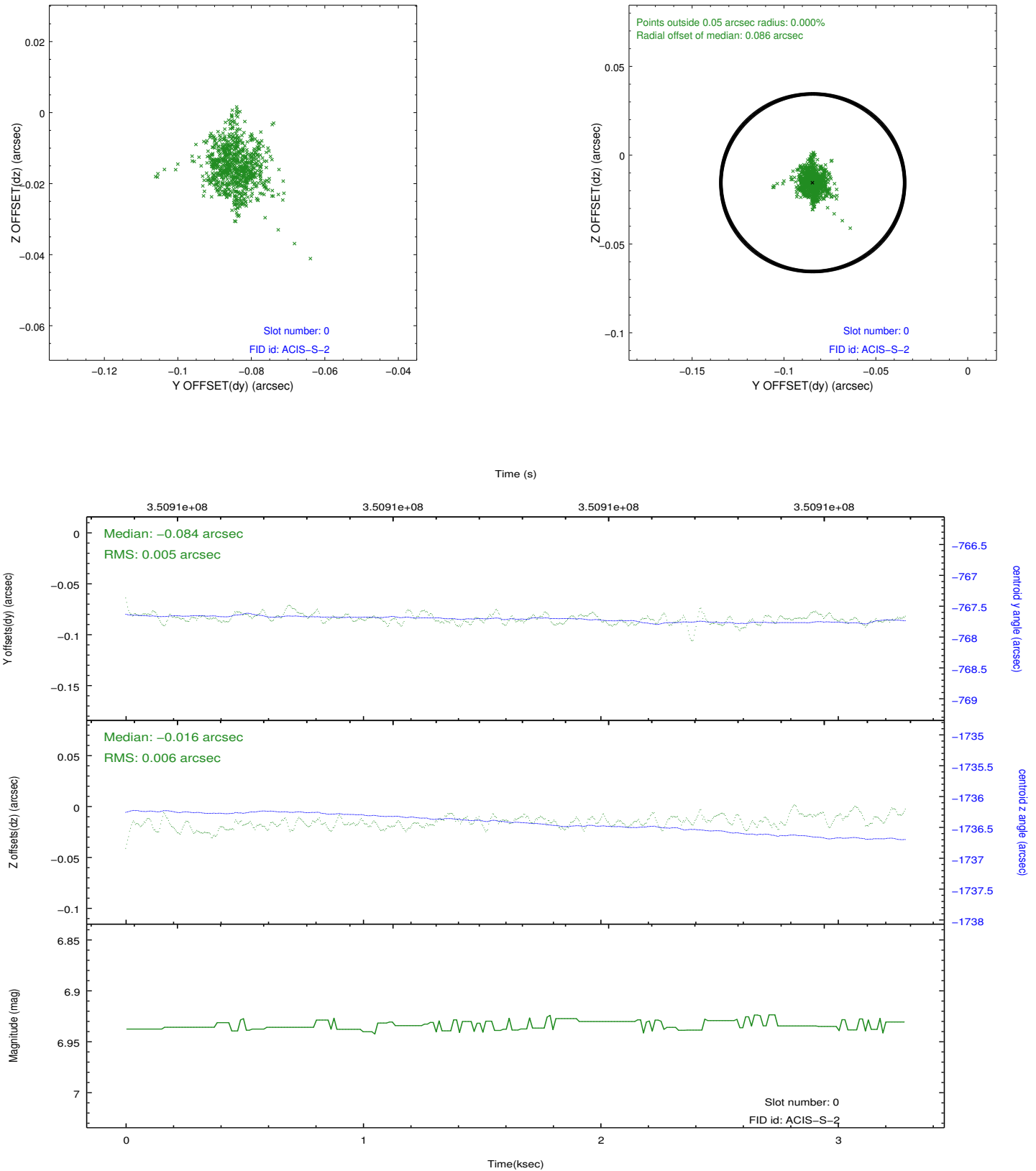


Time (s)

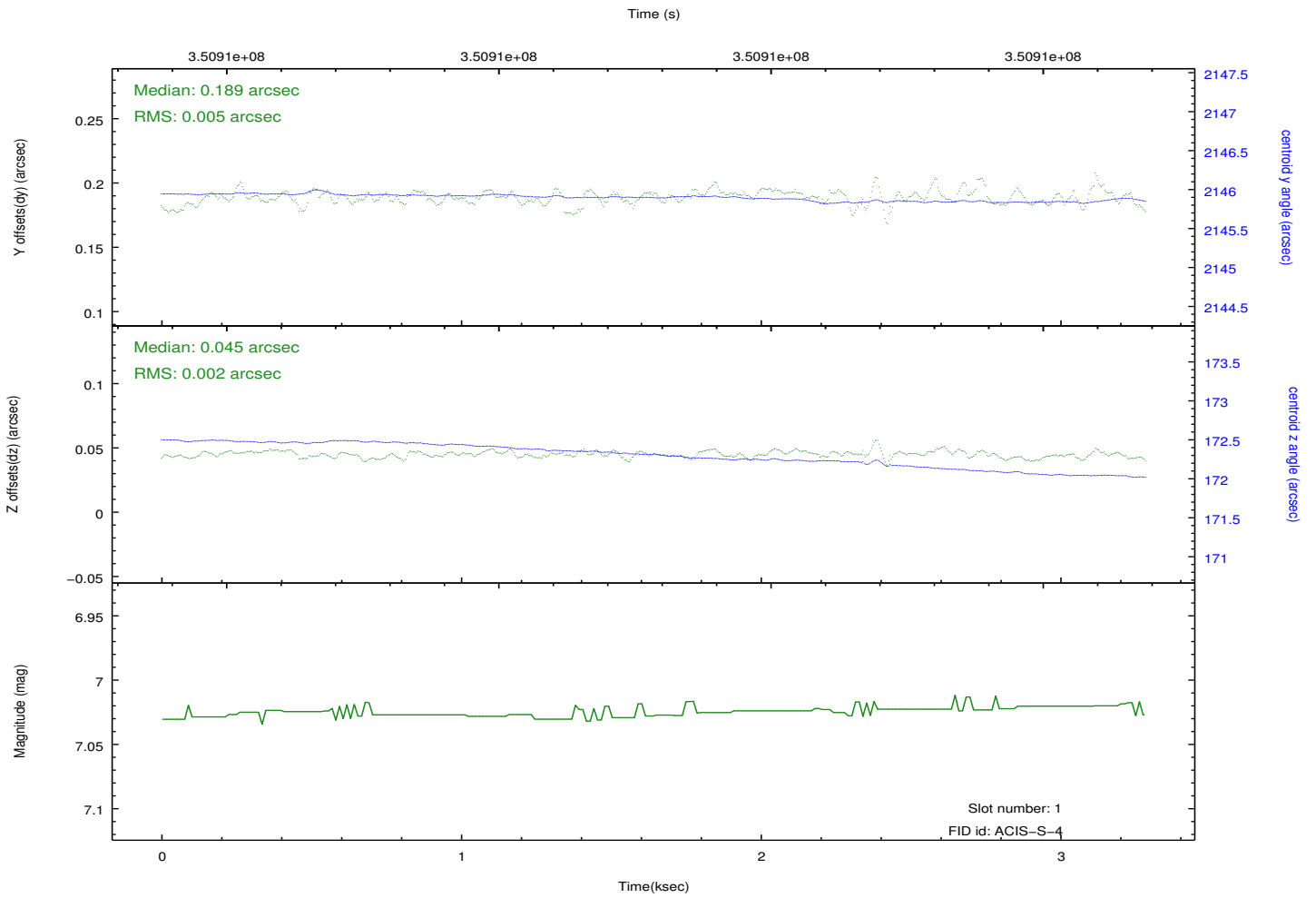
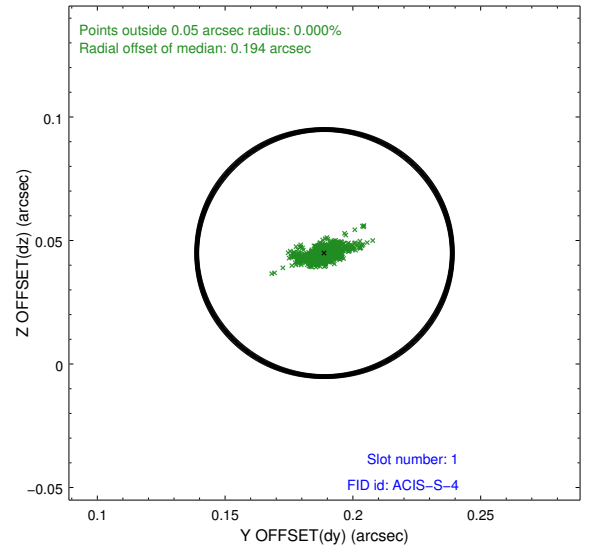
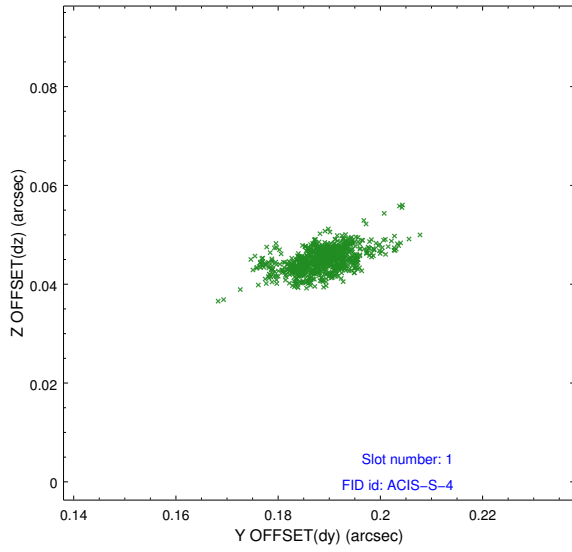


2.5 FID Slots

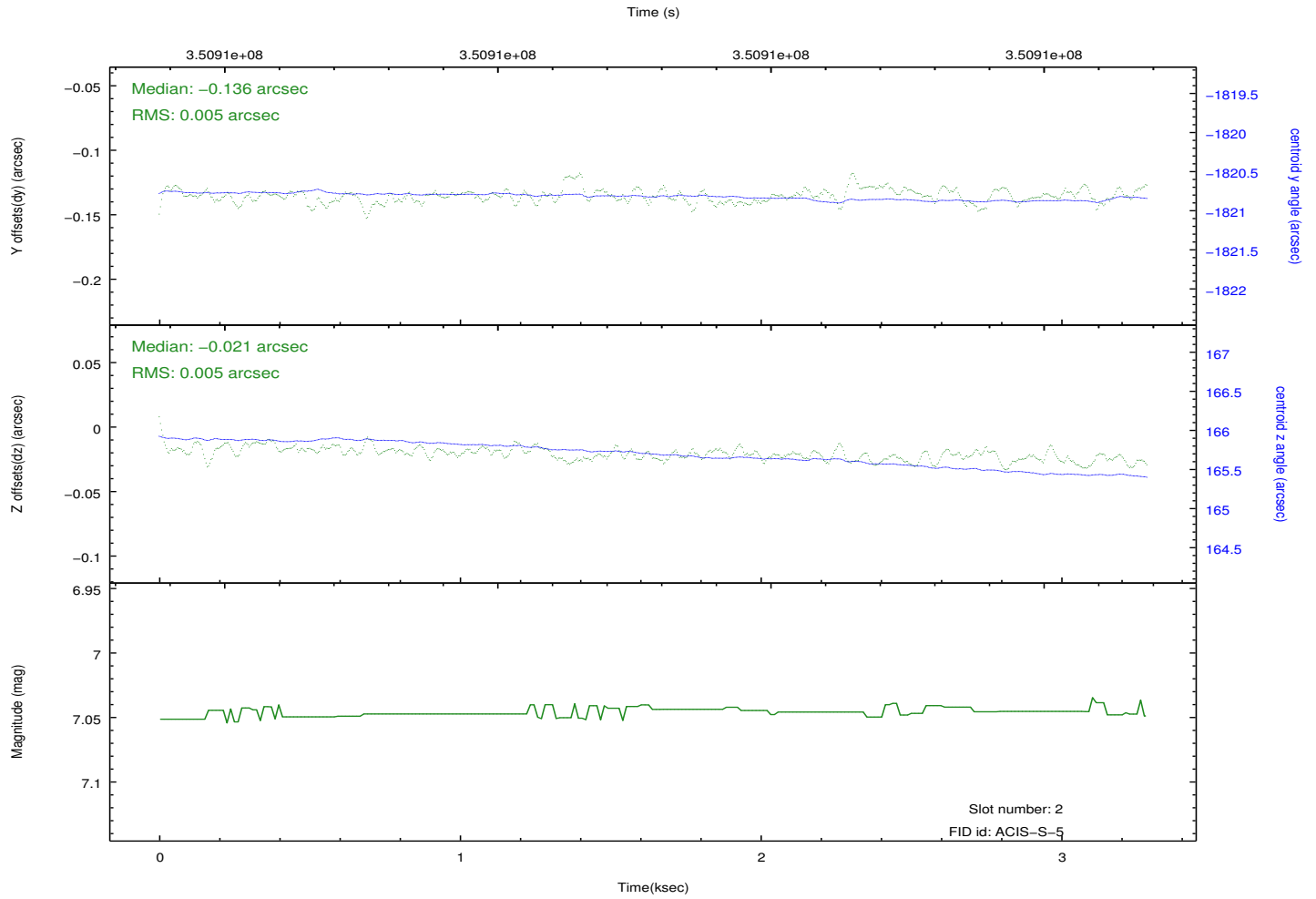
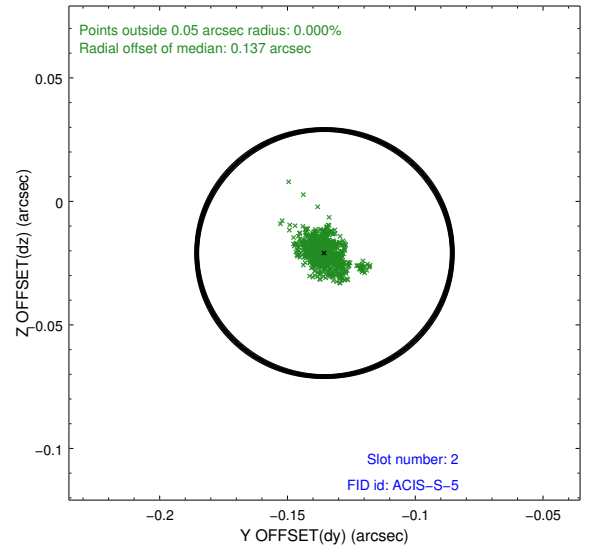
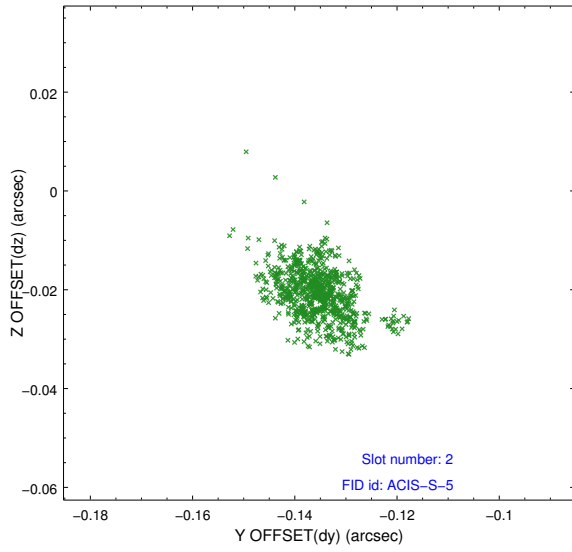
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.06.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.8543999893665 |

A.2 Comments