

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4012 - L2 Version 3
Chandra X-Ray Center

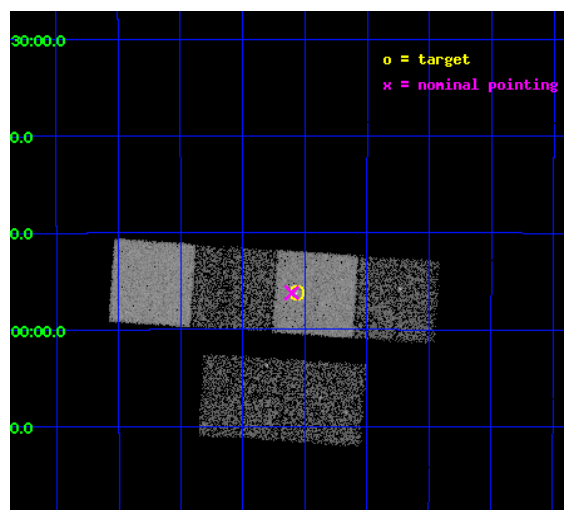
L2 Processing Date : Oct 23 2012

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1 Front

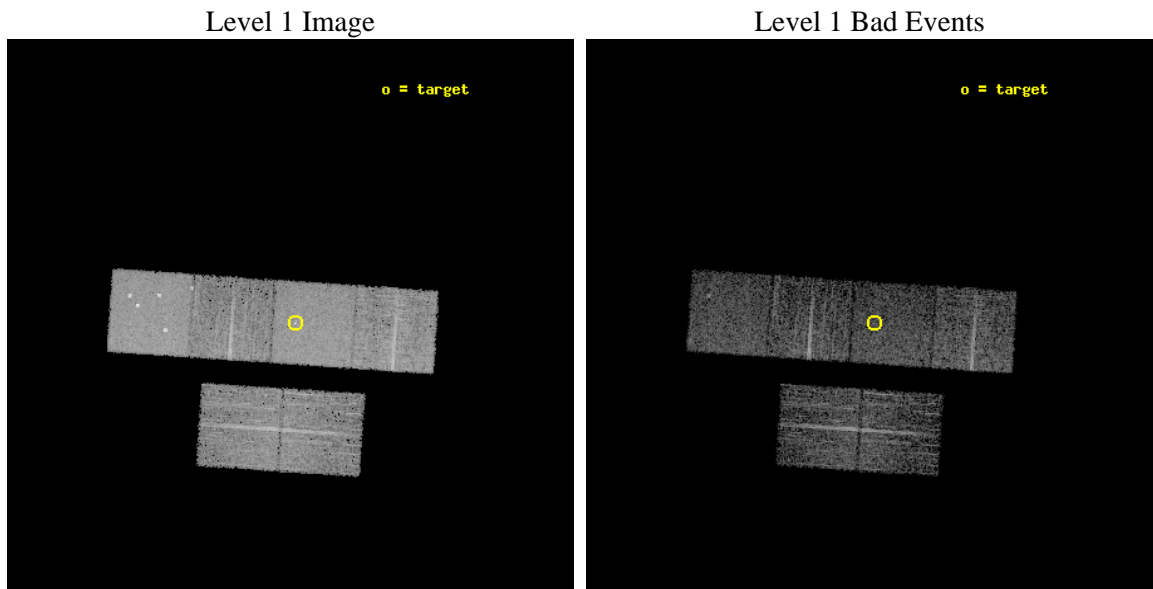
| | | |
|----------|--|---|
| seq_num | 700691 | Sequence number |
| obs_id | 4012 | Observation id |
| title | A CHANDRA SURVEY OF INFRARED-BRIGHT LINER GALAXIES | Proposal title |
| observer | Dr. Shobita Satyapal | Principal investigator |
| object | NGC3125 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 151.64 | Observer's specified target RA [deg] |
| dec_targ | -29.935833 | Observer's specified target Dec [deg] |
| ra_nom | 151.65110910185 | Nominal RA [deg] |
| dec_nom | -29.936902732252 | Nominal Dec [deg] |
| roll_nom | 3.8308588384706 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5219.199980557 | Sum of GTIs [s] |
| livetime | 5153.1113277782 | Livetime [s] |
| ontime2 | 5219.199980557 | Sum of GTIs [s] |
| ontime3 | 5219.199980557 | Sum of GTIs [s] |
| ontime5 | 5219.199980557 | Sum of GTIs [s] |
| ontime6 | 5215.9590002596 | Sum of GTIs [s] |
| ontime7 | 5219.199980557 | Sum of GTIs [s] |
| ontime8 | 5215.9590002596 | Sum of GTIs [s] |
| l2events | 58773 | Number of level 2 events |



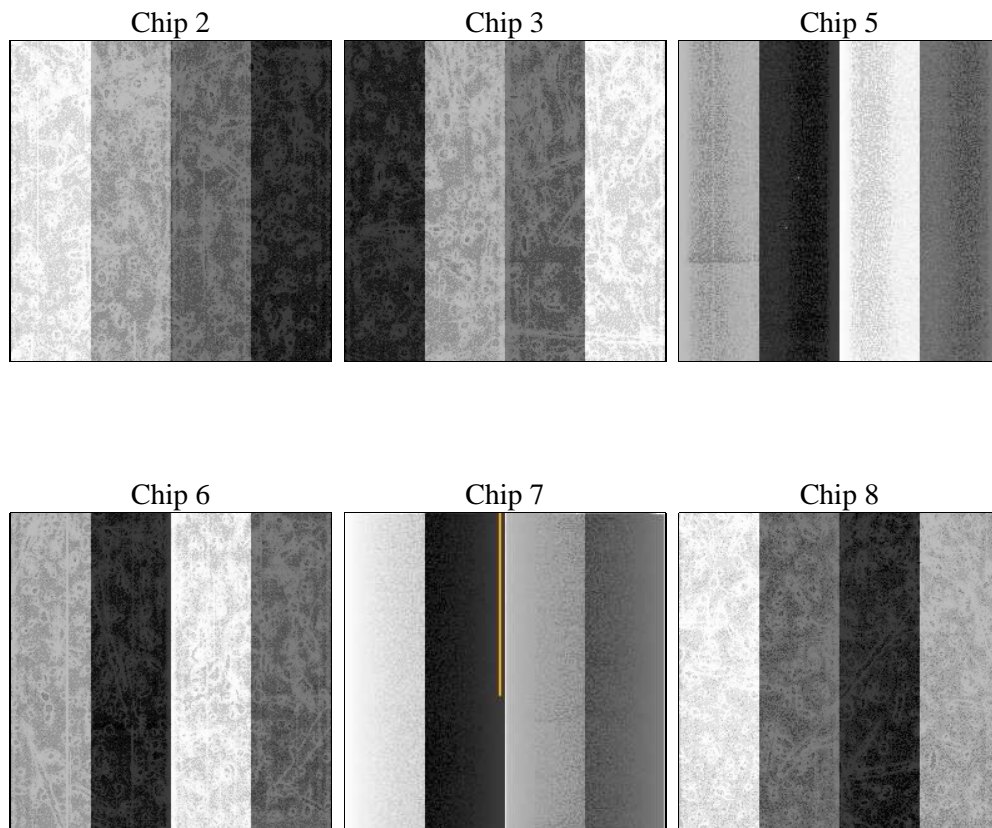
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5037.144000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 5219.199980557 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime2 | 5219.199980557 | Sum of GTIs [s] |
| date | 2012-10-23T08:57:37 | Date and time of file creation | ontime3 | 5219.199980557 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime5 | 5219.199980557 | Sum of GTIs [s] |
| | | | ontime6 | 5215.9590002596 | Sum of GTIs [s] |
| | | | ontime7 | 5219.199980557 | Sum of GTIs [s] |
| | | | ontime8 | 5215.9590002596 | Sum of GTIs [s] |
| | | | l1events | 246725 | Number of level 1 events |

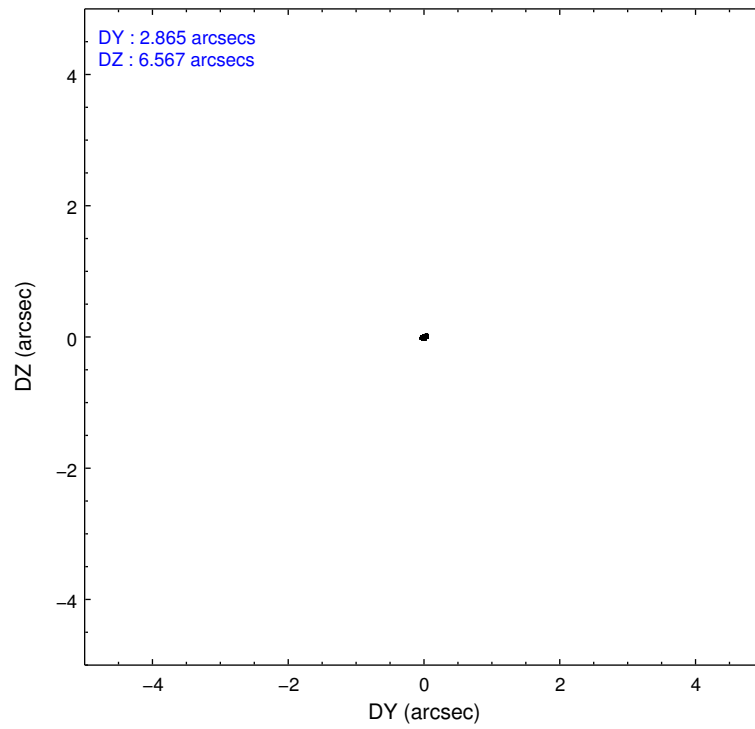
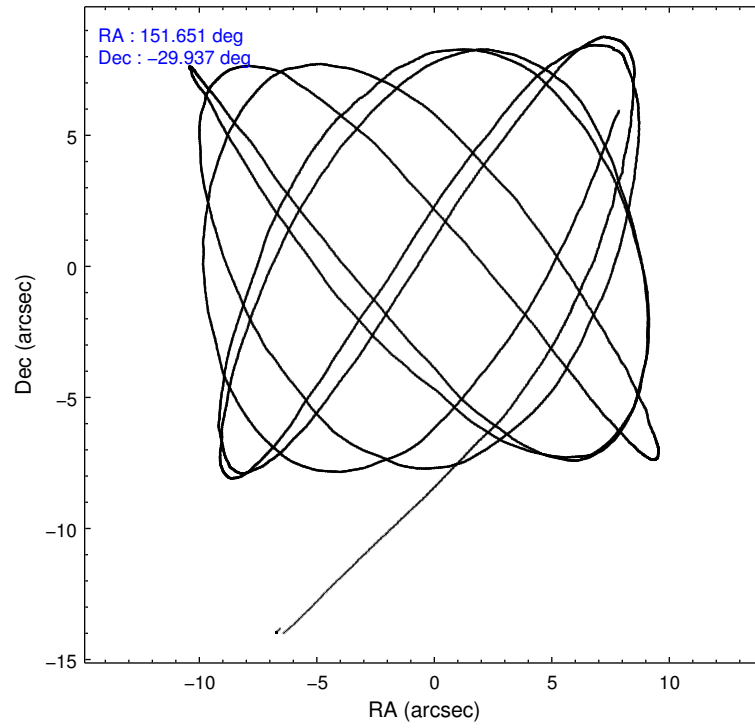
2.1.4 Events

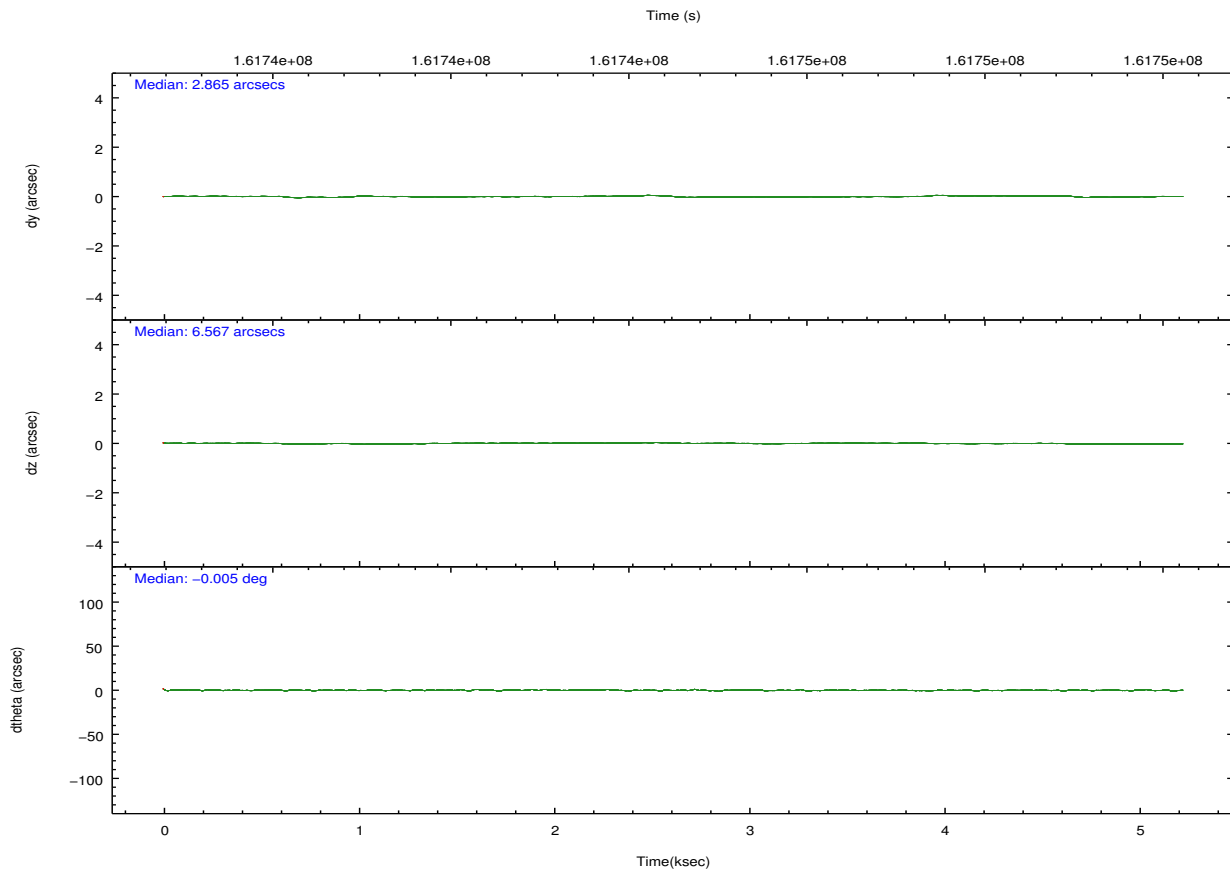
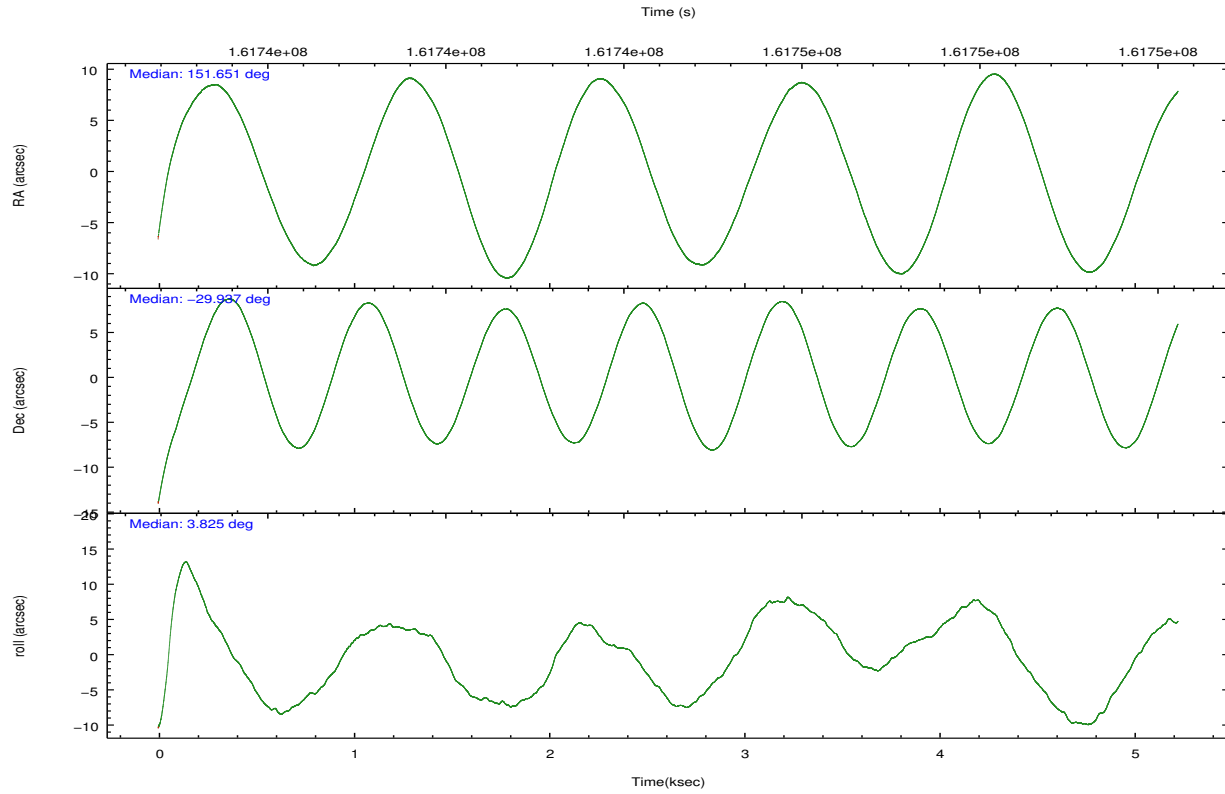
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 34729 | 32514 | 54508 | 33840 | 47179 | 43955 | grade 0 events | 1980 | 1827 | 4829 | 1660 | 2050 | 2974 |
| rejected events | 30483 | 28562 | 27222 | 29726 | 26303 | 34753 | | 5% | 5% | 8% | 4% | 4% | 6% |
| rejected % | 87% | 87% | 49% | 87% | 55% | 79% | grade 1 events | 31 | 22 | 95 | 16 | 38 | 27 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 795 | 745 | 7578 | 879 | 4088 | 2073 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 413 | 354 | 1056 | 439 | 1842 | 876 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 4 events | 390 | 380 | 1016 | 392 | 1867 | 862 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 1% |
| | | | | | | | grade 5 events | 1253 | 1396 | 3457 | 1457 | 4129 | 1864 |
| | | | | | | | | 3% | 4% | 6% | 4% | 8% | 4% |
| | | | | | | | grade 6 events | 703 | 687 | 13104 | 786 | 11213 | 2486 |
| | | | | | | | | 2% | 2% | 24% | 2% | 23% | 5% |
| | | | | | | | grade 7 events | 29164 | 27103 | 23373 | 28211 | 21952 | 32793 |
| | | | | | | | | 83% | 83% | 42% | 83% | 46% | 74% |

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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 151.625222 | 151.651109101853 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -29.952349 | -29.93690273225237 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 3.661347 | 3.830858838470642 | [s] Primary exposure time | 0.000000 | 3.2 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 161742822.184000 | 161741727.50886 | | | |
| Observation start date | 2003-02-16T00:32:38 | 2003-02-16T00:15:27 | | | |
| [s] Observation end time (MET) | 161747859.184000 | 161748173.73413 | | | |
| Observation end date | 2003-02-16T01:56:35 | 2003-02-16T02:02:53 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



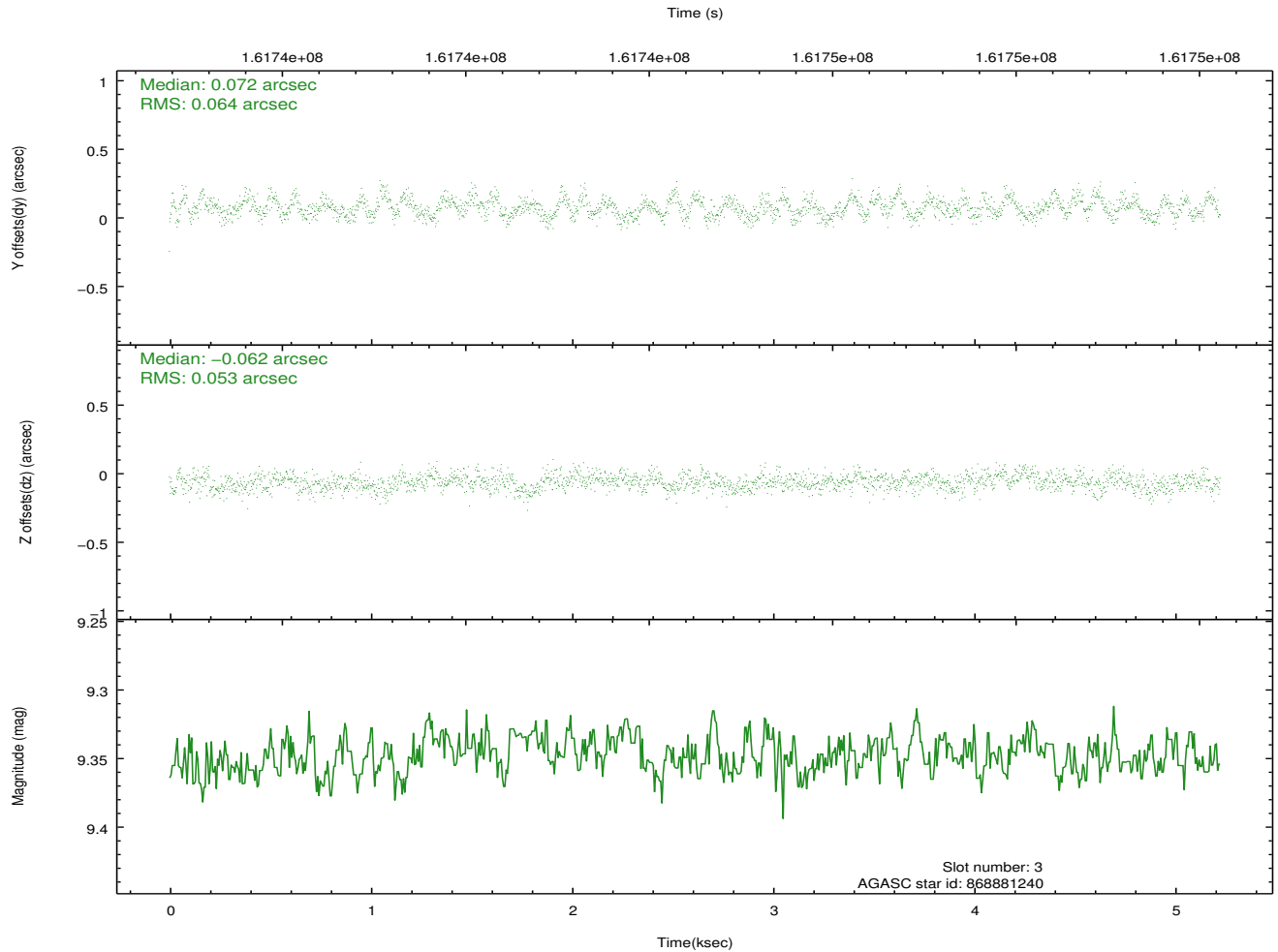
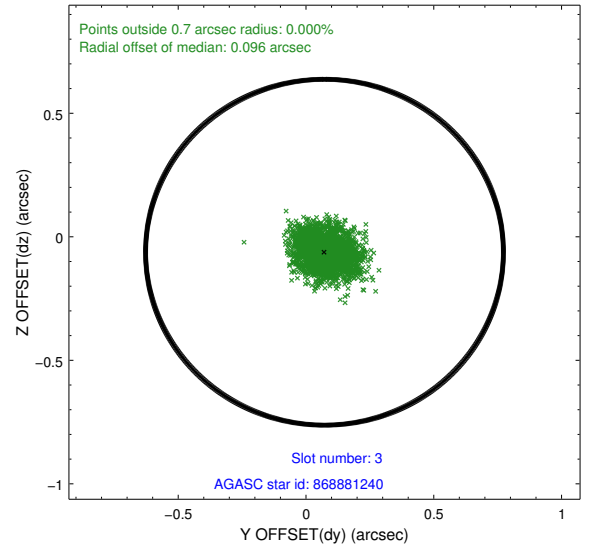
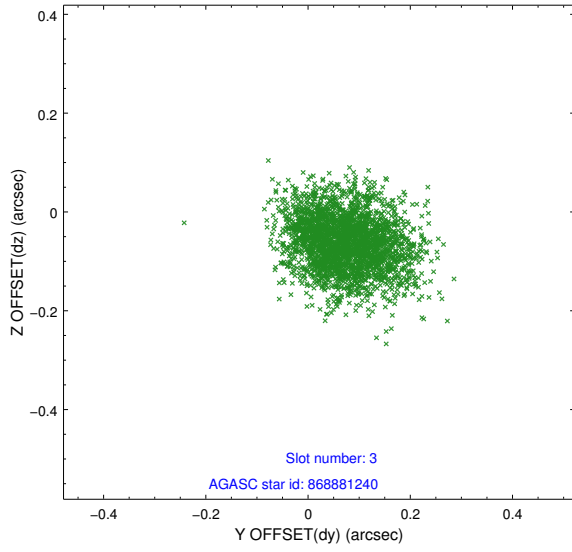


Slot Statistics

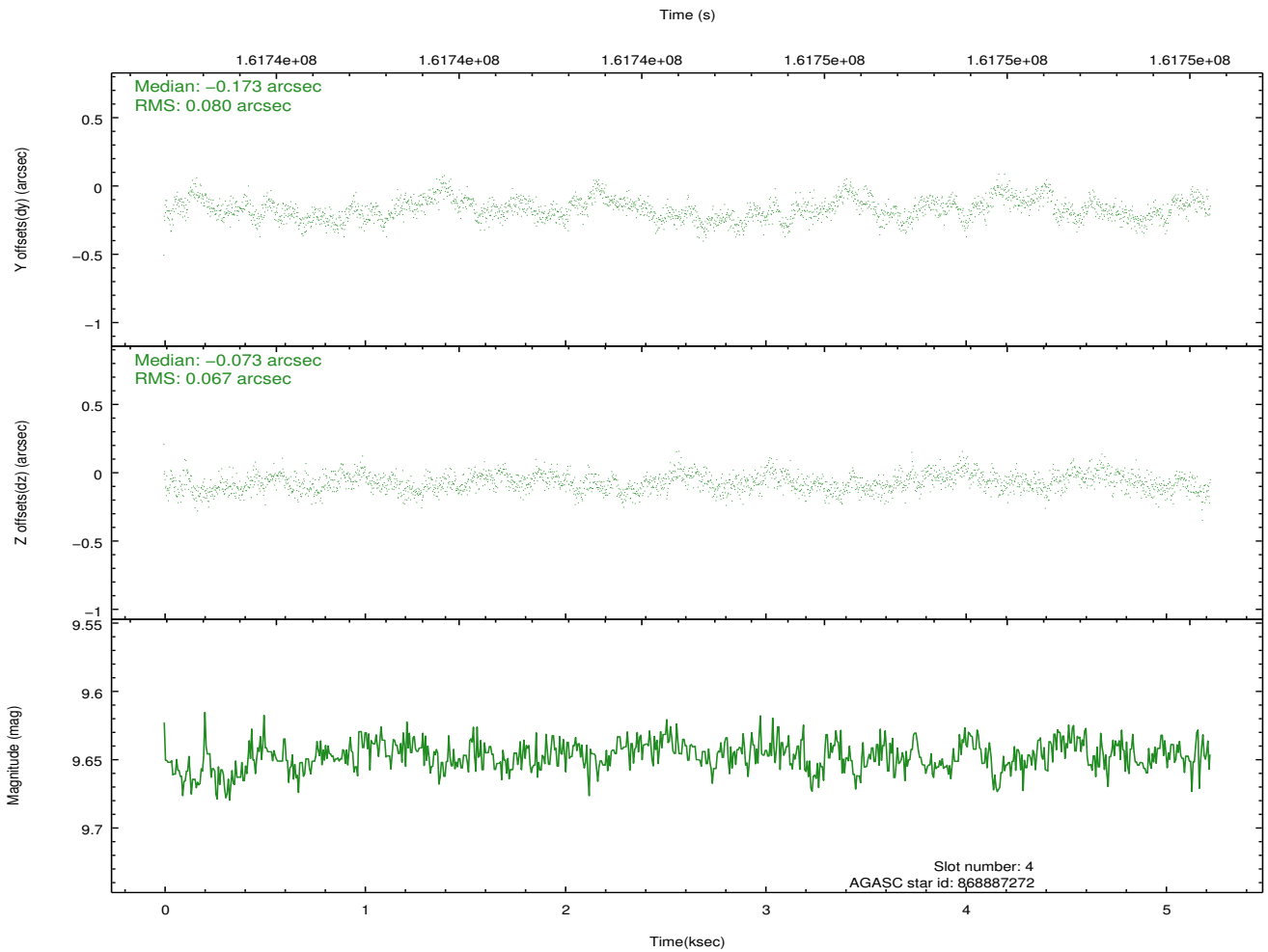
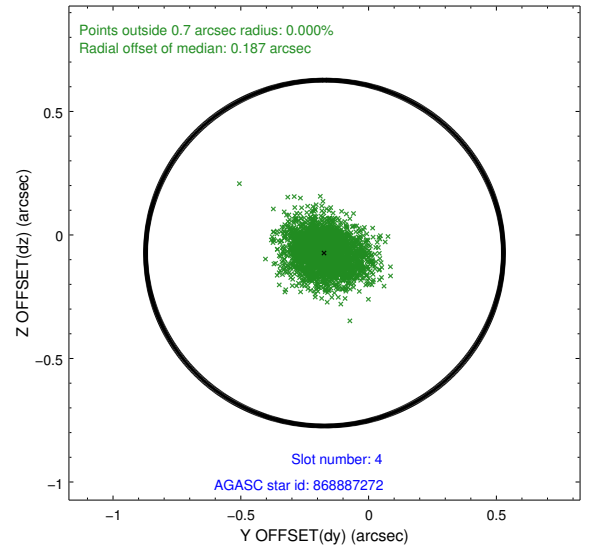
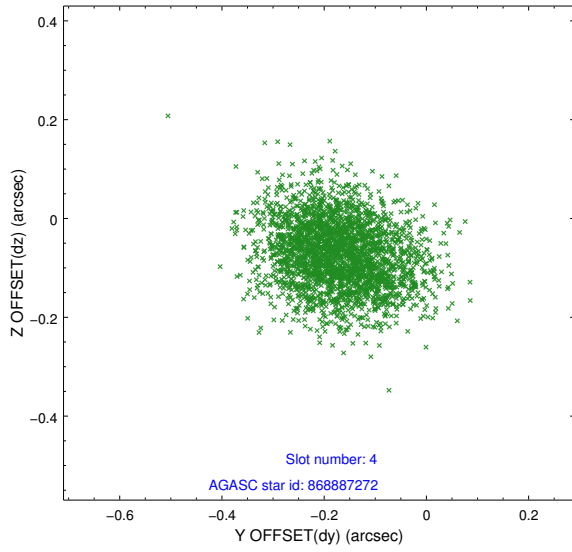
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.12 | 1275 | -0.042 | -0.005 | 0.006 | 0.010 | 0.000000 | 0.000000 | -755.52 | -1727.68 |
| 1 | FID | ACIS-S-4 | 7.21 | 1275 | 0.017 | 0.021 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2157.27 | 179.68 |
| 2 | FID | ACIS-S-5 | 7.24 | 1275 | -0.007 | -0.008 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1806.86 | 174.57 |
| 3 | GUIDE | 868881240 | 9.35 | 2546 | 0.072 | -0.062 | 0.089 | 0.143 | 151.287808 | -29.477848 | -946.45 | 1770.79 |
| 4 | GUIDE | 868887272 | 9.65 | 2546 | -0.173 | -0.073 | 0.110 | 0.179 | 151.736510 | -29.526843 | 445.01 | 1507.19 |
| 5 | GUIDE | 868887848 | 9.70 | 2550 | 0.058 | -0.035 | 0.118 | 0.190 | 151.261565 | -29.552350 | -1044.64 | 1508.69 |
| 6 | GUIDE | 939788896 | 9.48 | 2550 | 0.050 | 0.011 | 0.086 | 0.139 | 151.952810 | -30.243045 | 949.58 | -1109.94 |
| 7 | GUIDE | 939793000 | 9.26 | 2547 | -0.011 | 0.159 | 0.101 | 0.159 | 151.363473 | -30.568942 | -950.93 | -2164.48 |

2.4 Star Slots

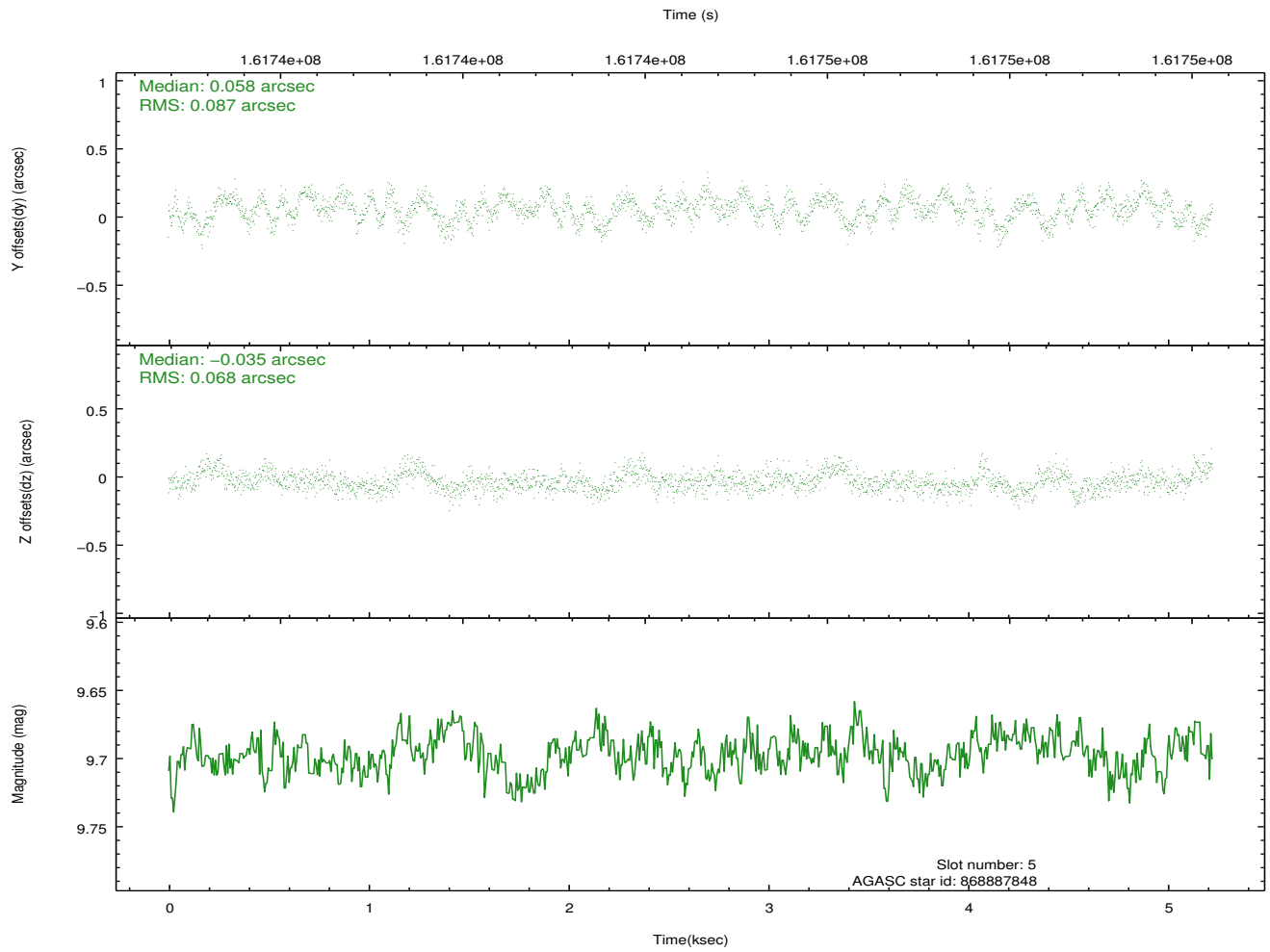
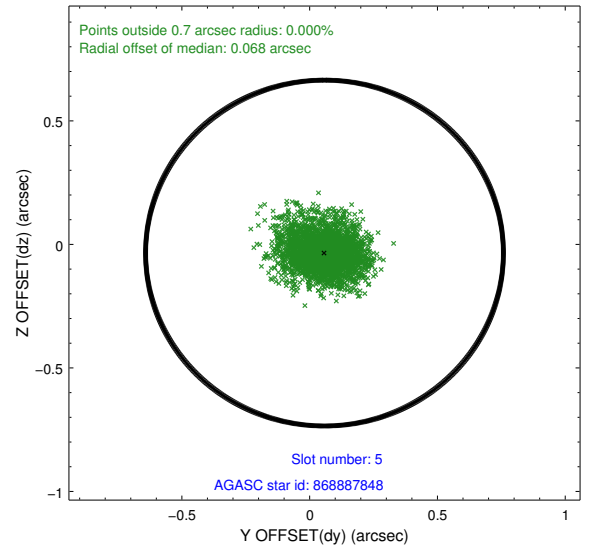
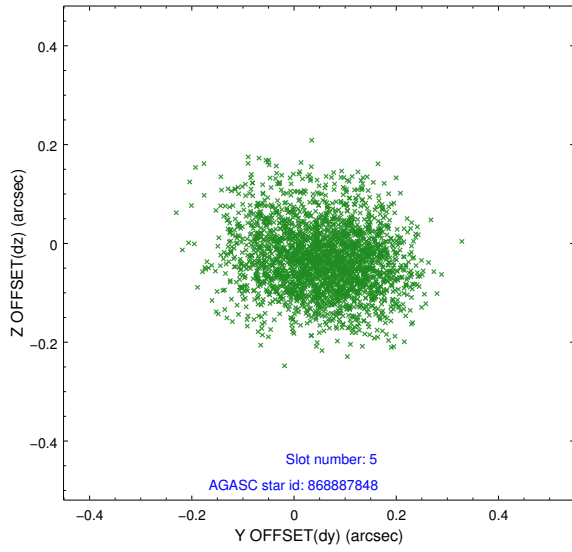
2.4.1 Slot 3



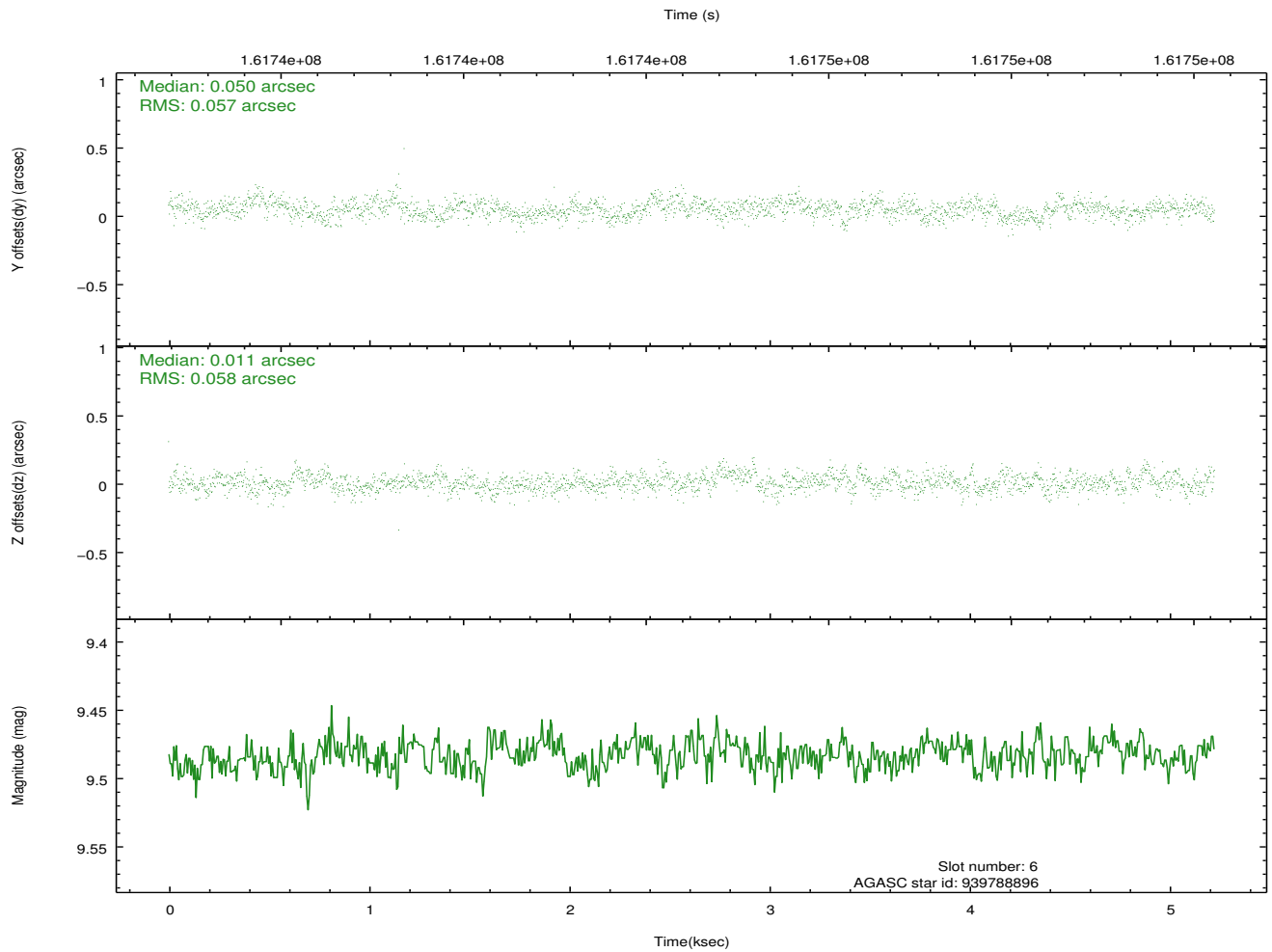
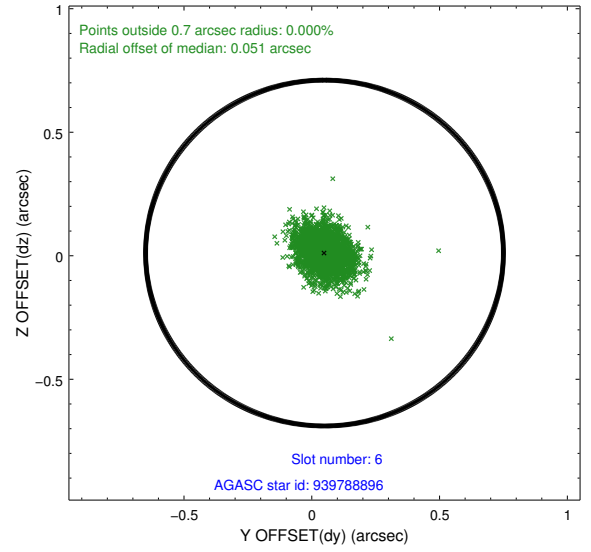
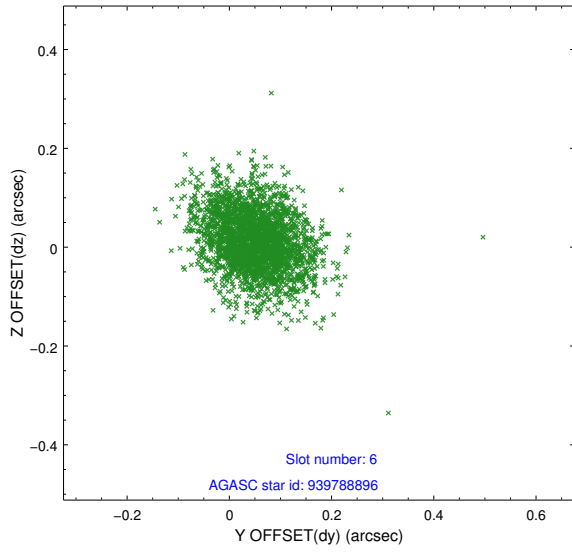
2.4.2 Slot 4



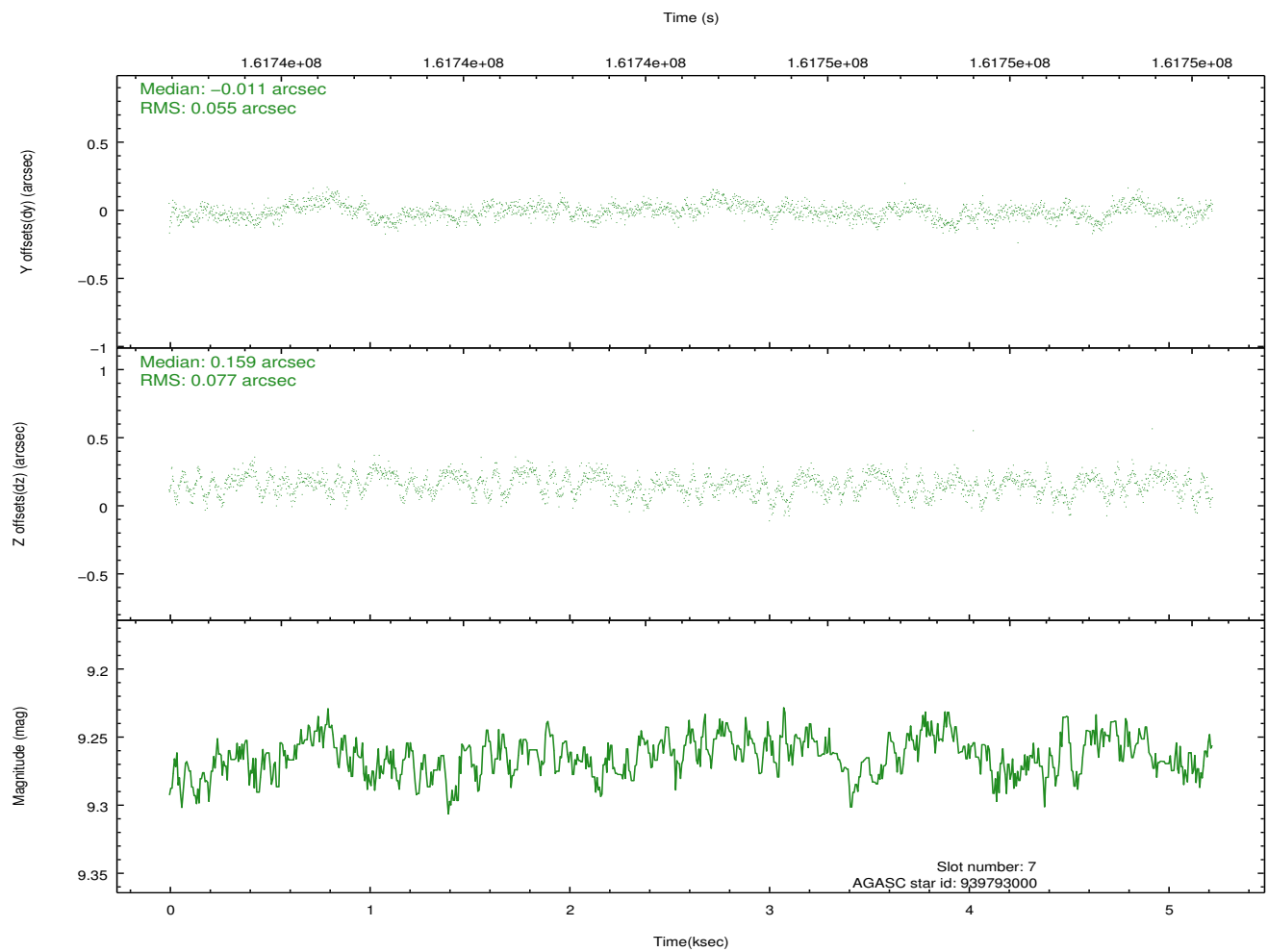
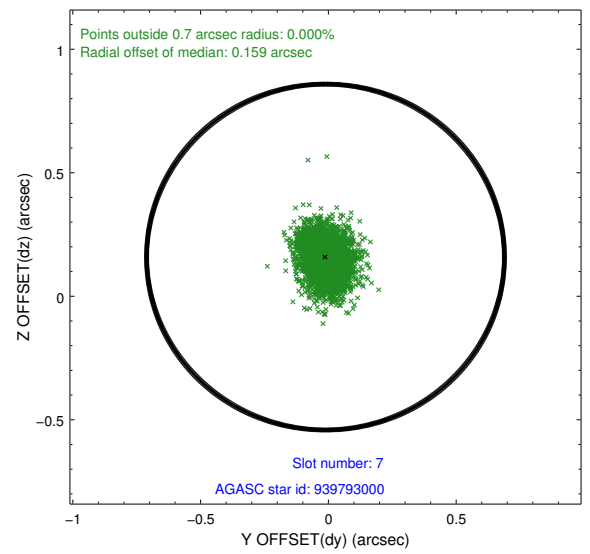
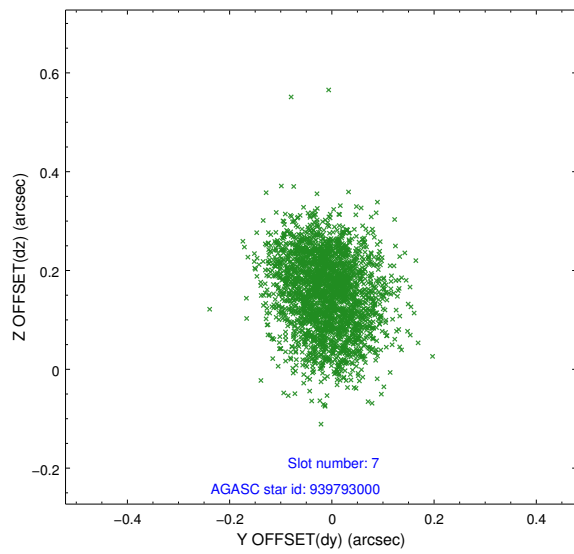
2.4.3 Slot 5



2.4.4 Slot 6

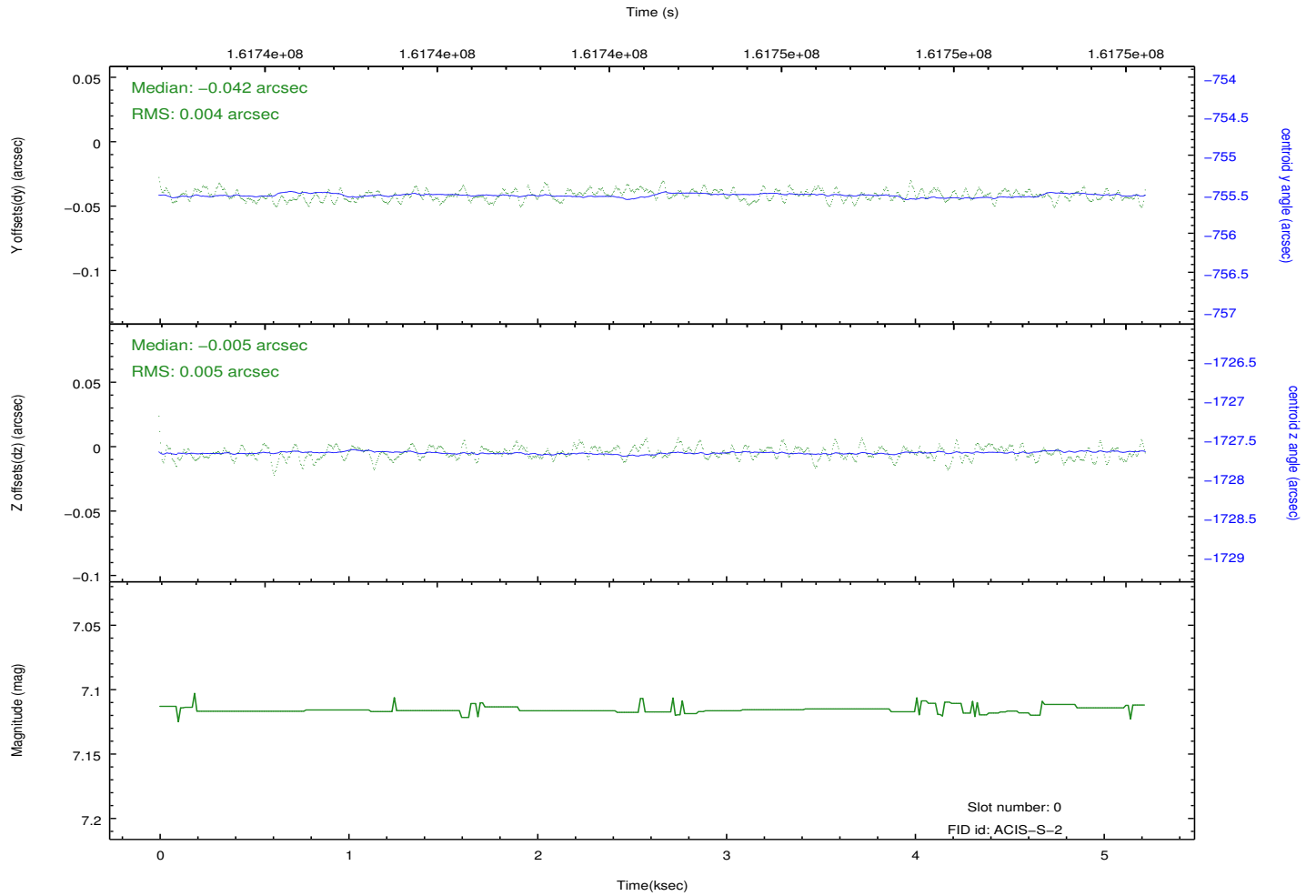
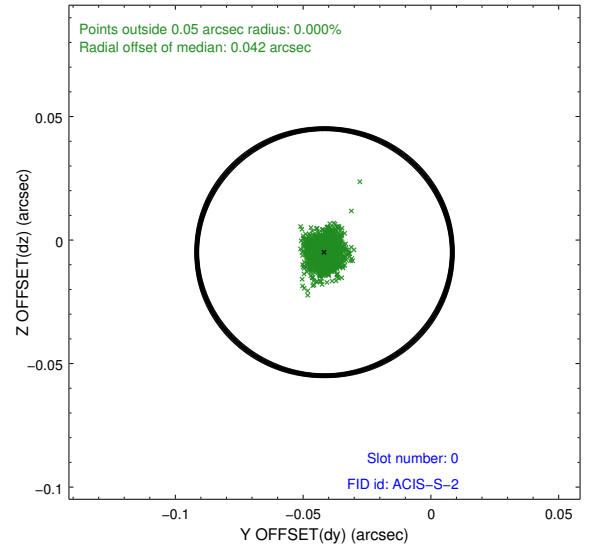
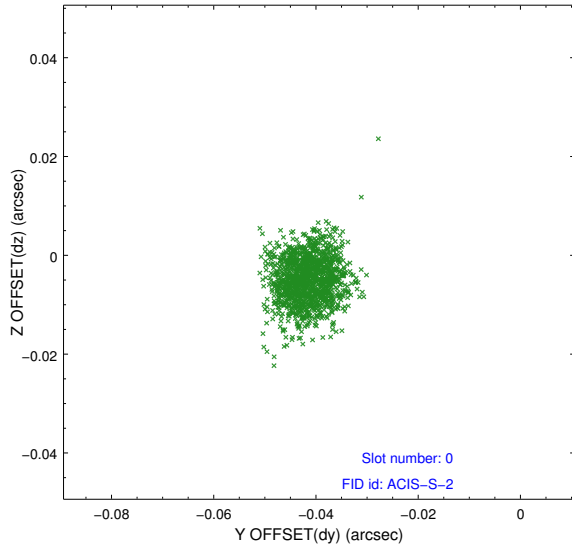


2.4.5 Slot 7

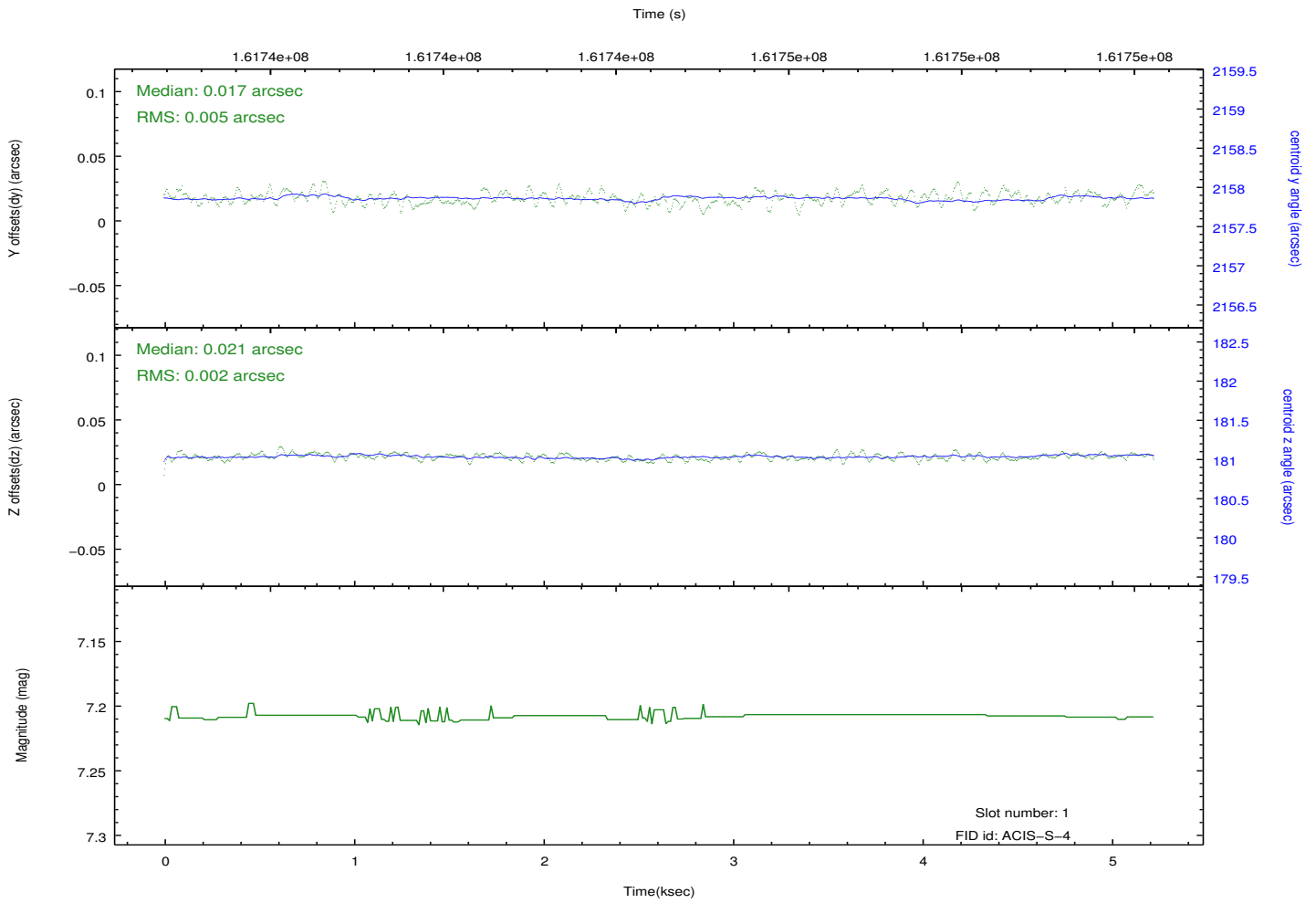
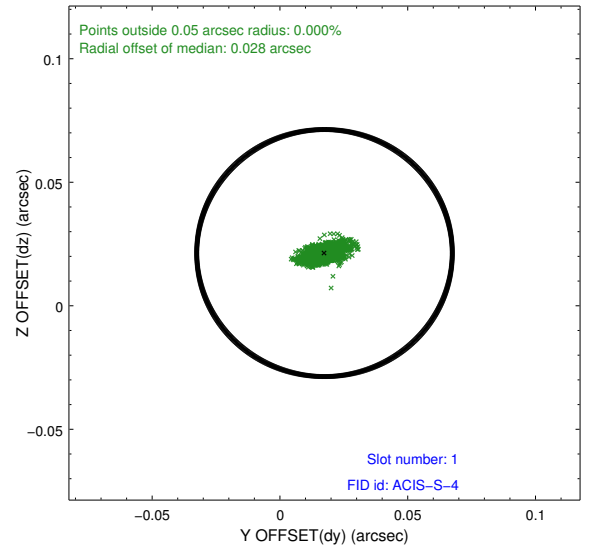
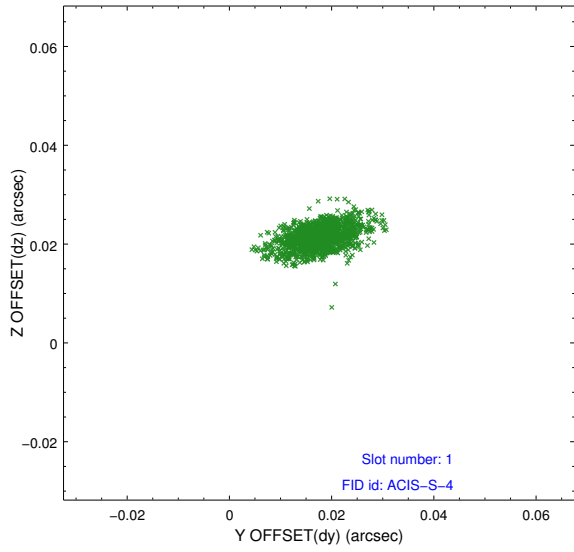


2.5 FID Slots

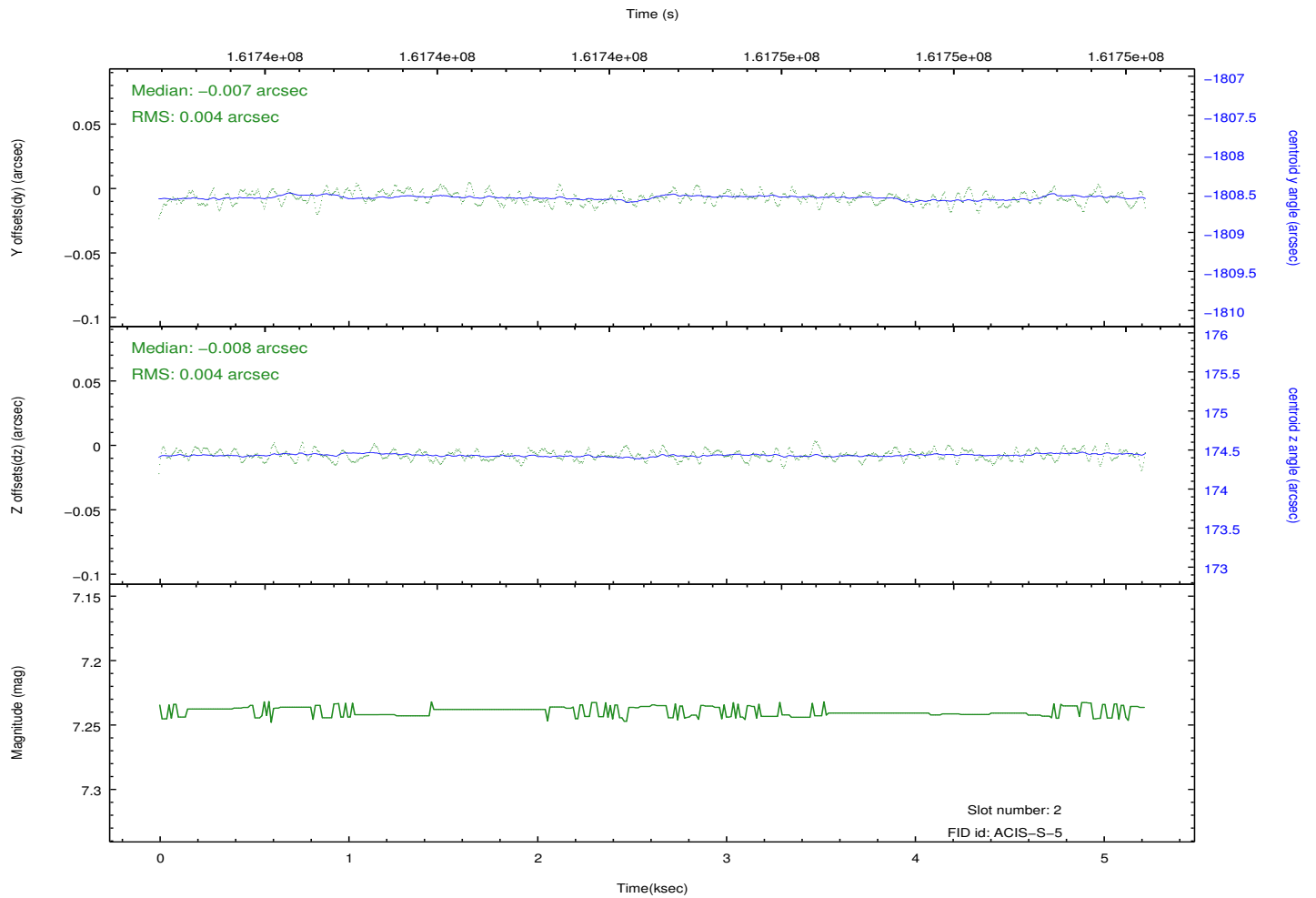
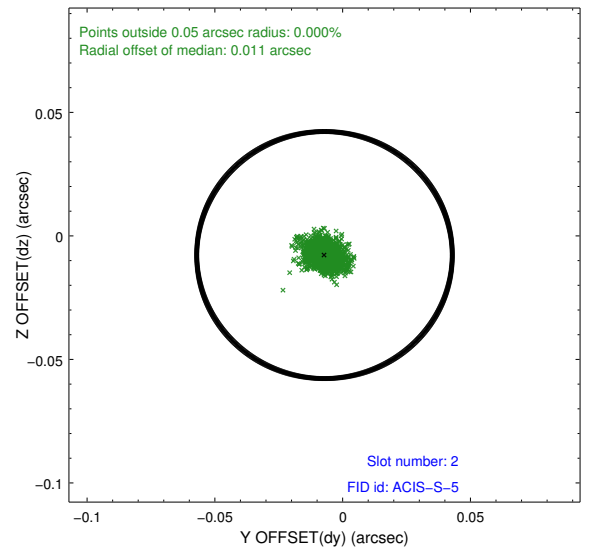
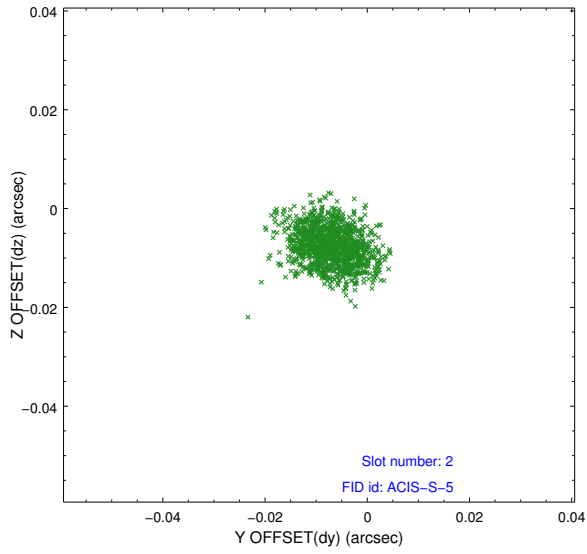
2.5.1 Slot 0



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) | 2012.11.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.219 |

A.2 Comments