

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6905 - L2 Version 2
Chandra X-Ray Center

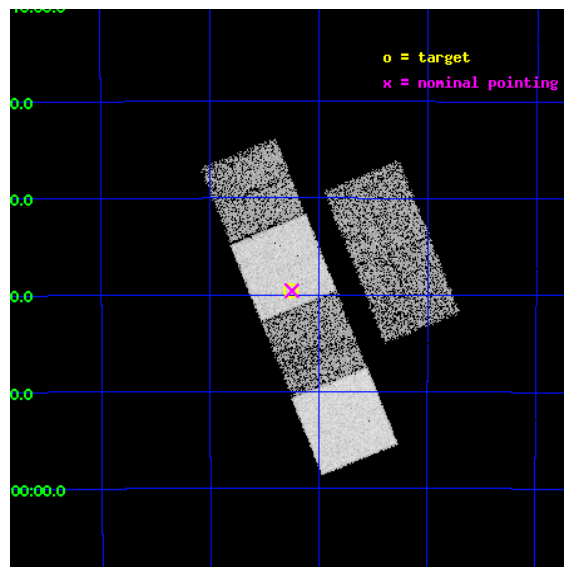
L2 Processing Date : Mar 26 2012

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| A | Summary | 17 |
| A.1 | Status | 17 |
| A.2 | Comments | 17 |

1 Front

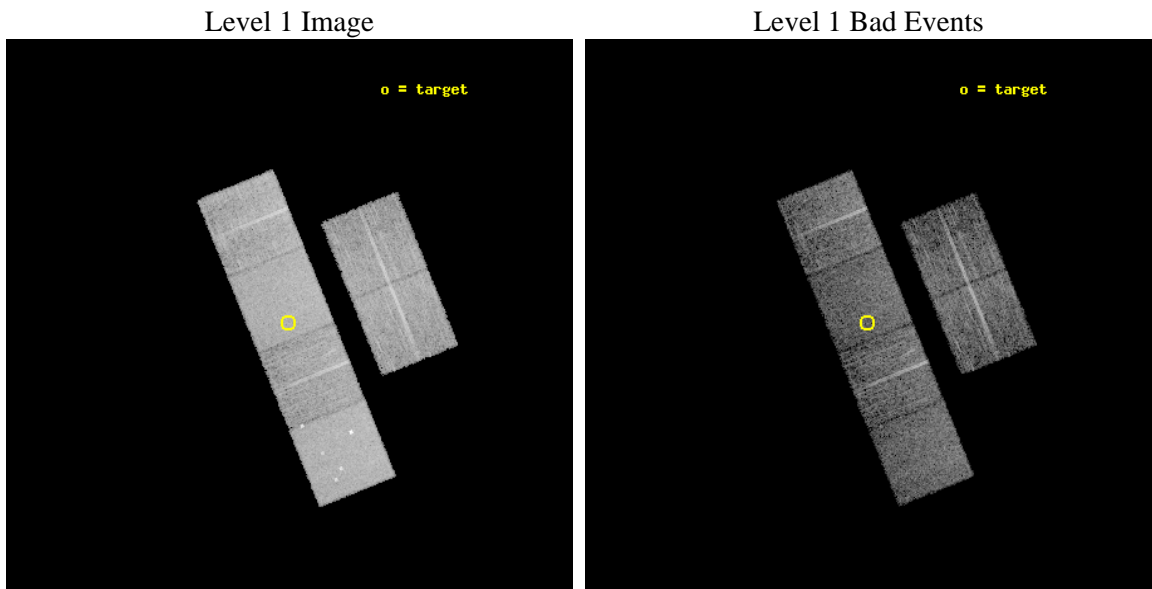
| | | |
|----------|--|---|
| seq_num | 701321 | Sequence number |
| obs_id | 6905 | Observation id |
| title | Are Submm-Bright GRB Hosts Powered by AGN? | Proposal title |
| observer | Dr. Andrew Fruchter | Principal investigator |
| object | GRB 000210 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 29.814583 | Observer's specified target RA [deg] |
| dec_targ | -40.659222 | Observer's specified target Dec [deg] |
| ra_nom | 29.81190449448 | Nominal RA [deg] |
| dec_nom | -40.659758916899 | Nominal Dec [deg] |
| roll_nom | 247.97443301948 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5955.1999778152 | Sum of GTIs [s] |
| livetime | 5879.7916499051 | Livetime [s] |
| ontime2 | 5951.9590374231 | Sum of GTIs [s] |
| ontime3 | 5948.7180273235 | Sum of GTIs [s] |
| ontime5 | 5955.1999778152 | Sum of GTIs [s] |
| ontime6 | 5951.9588880241 | Sum of GTIs [s] |
| ontime7 | 5955.1999778152 | Sum of GTIs [s] |
| ontime8 | 5955.1999778152 | Sum of GTIs [s] |
| l2events | 83552 | Number of level 2 events |



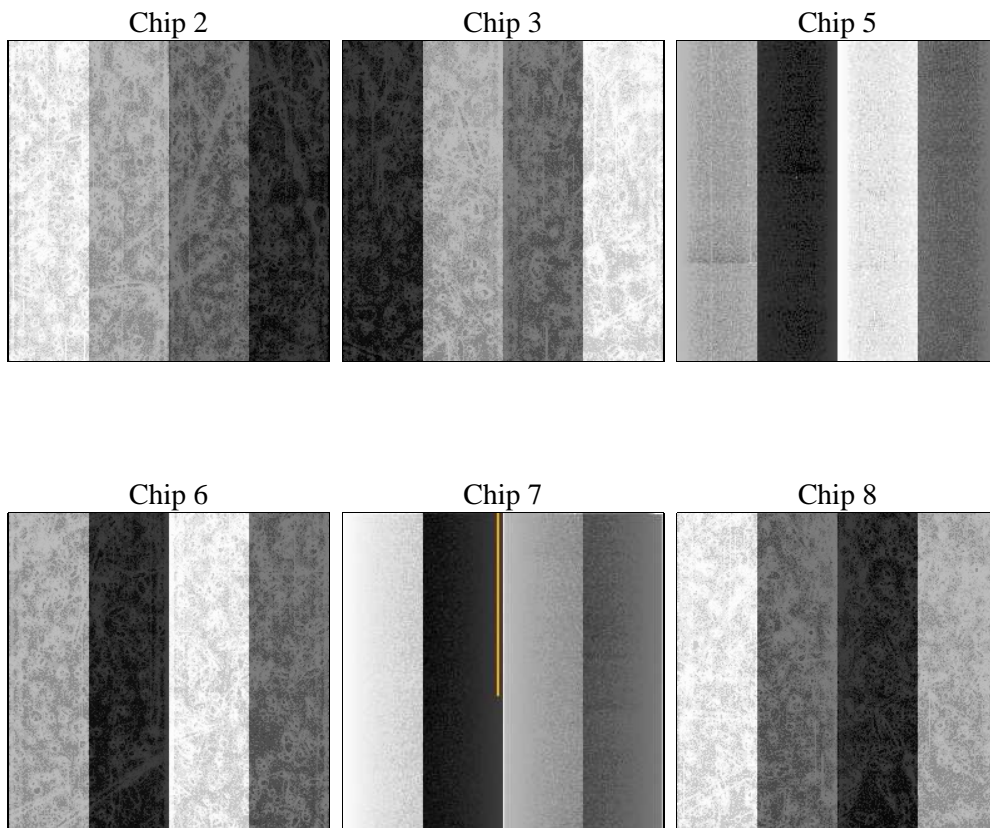
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 6000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 5955.1999778152 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime2 | 5951.9590374231 | Sum of GTIs [s] |
| date | 2012-03-26T06:44:40 | Date and time of file creation | ontime3 | 5948.7180273235 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime5 | 5955.1999778152 | Sum of GTIs [s] |
| | | | ontime6 | 5951.9588880241 | Sum of GTIs [s] |
| | | | ontime7 | 5955.1999778152 | Sum of GTIs [s] |
| | | | ontime8 | 5955.1999778152 | Sum of GTIs [s] |
| | | | l1events | 367769 | Number of level 1 events |

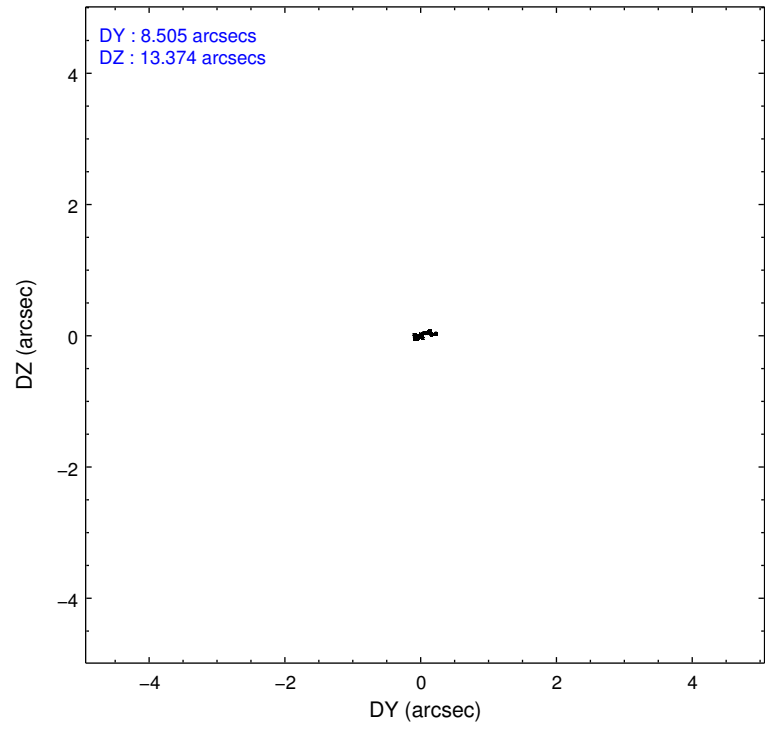
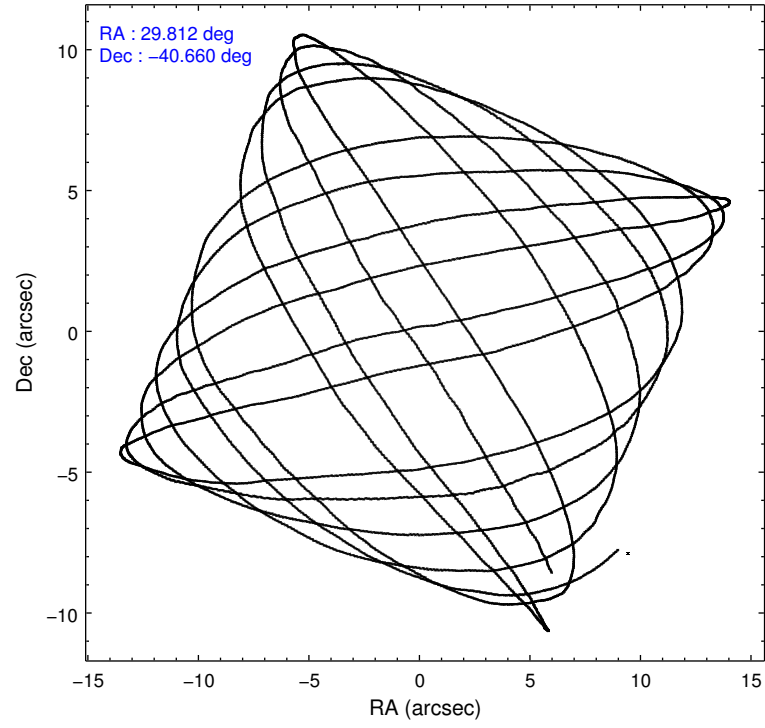
2.1.4 Events

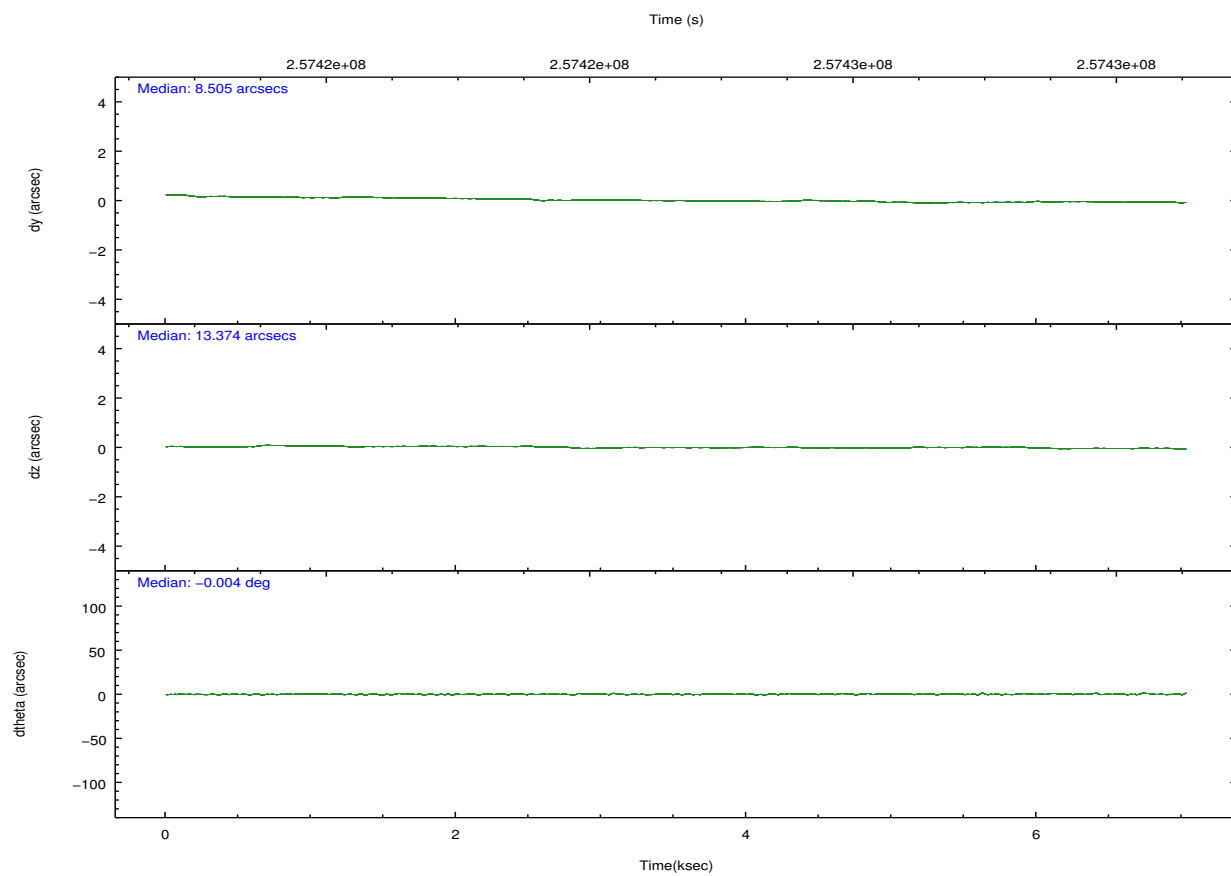
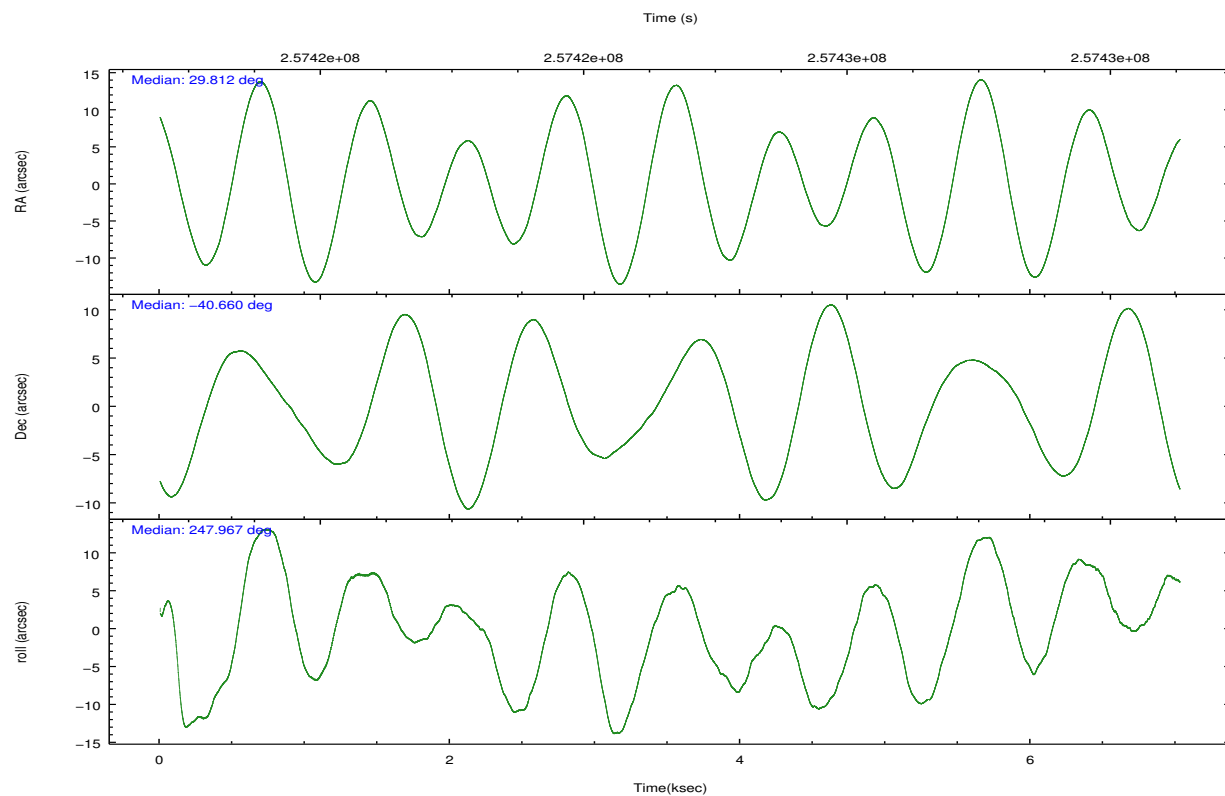
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 52802 | 48407 | 79147 | 51886 | 70021 | 65506 | grade 0 events | 2671 | 2504 | 4867 | 2451 | 2605 | 4402 |
| rejected events | 46636 | 42478 | 42193 | 45777 | 40870 | 51439 | | 5% | 5% | 6% | 4% | 3% | 6% |
| rejected % | 88% | 87% | 53% | 88% | 58% | 78% | grade 1 events | 35 | 28 | 139 | 30 | 79 | 54 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 1287 | 1198 | 10540 | 1303 | 5911 | 3119 |
| | | | | | | | | 2% | 2% | 13% | 2% | 8% | 4% |
| | | | | | | | grade 3 events | 571 | 631 | 1382 | 579 | 2555 | 1485 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 4 events | 582 | 557 | 1349 | 547 | 2497 | 1451 |
| | | | | | | | | 1% | 1% | 1% | 1% | 3% | 2% |
| | | | | | | | grade 5 events | 1979 | 2254 | 5755 | 2307 | 6632 | 3151 |
| | | | | | | | | 3% | 4% | 7% | 4% | 9% | 4% |
| | | | | | | | grade 6 events | 1059 | 1041 | 18834 | 1233 | 15602 | 3617 |
| | | | | | | | | 2% | 2% | 23% | 2% | 22% | 5% |
| | | | | | | | grade 7 events | 44618 | 40194 | 36281 | 43436 | 34140 | 48227 |
| | | | | | | | | 84% | 83% | 45% | 83% | 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 | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 29.806462 | 29.81190449447996 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -40.632827 | -40.65975891689851 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 247.814266 | 247.9744330194825 | [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 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 257422171.184000 | 257420787.77106 | | | |
| Observation start date | 2006-02-27T10:08:26 | 2006-02-27T09:46:27 | | | |
| [s] Observation end time (MET) | 257428171.184000 | 257428758.17143 | | | |
| Observation end date | 2006-02-27T11:48:26 | 2006-02-27T11:59:18 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



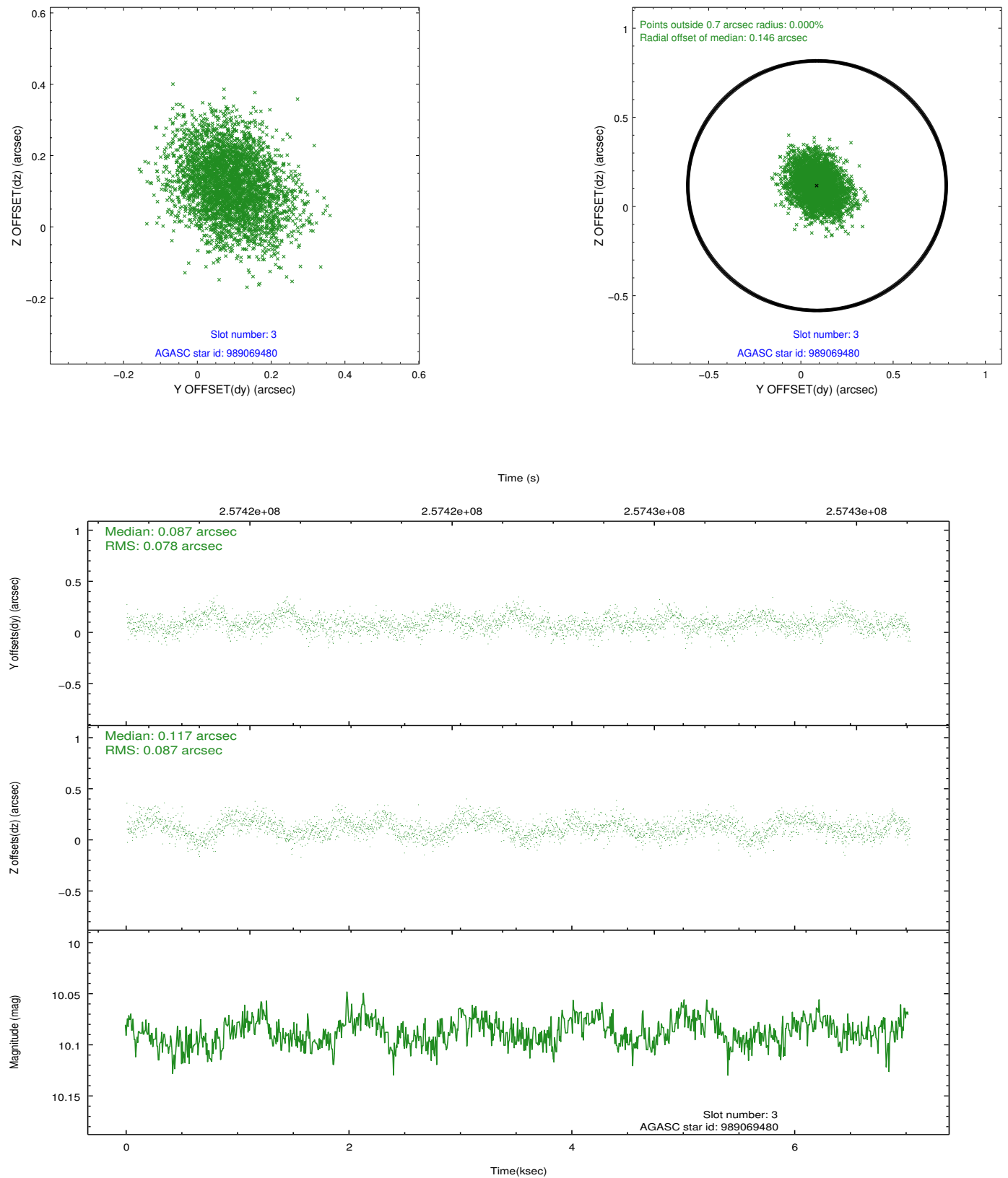


Slot Statistics

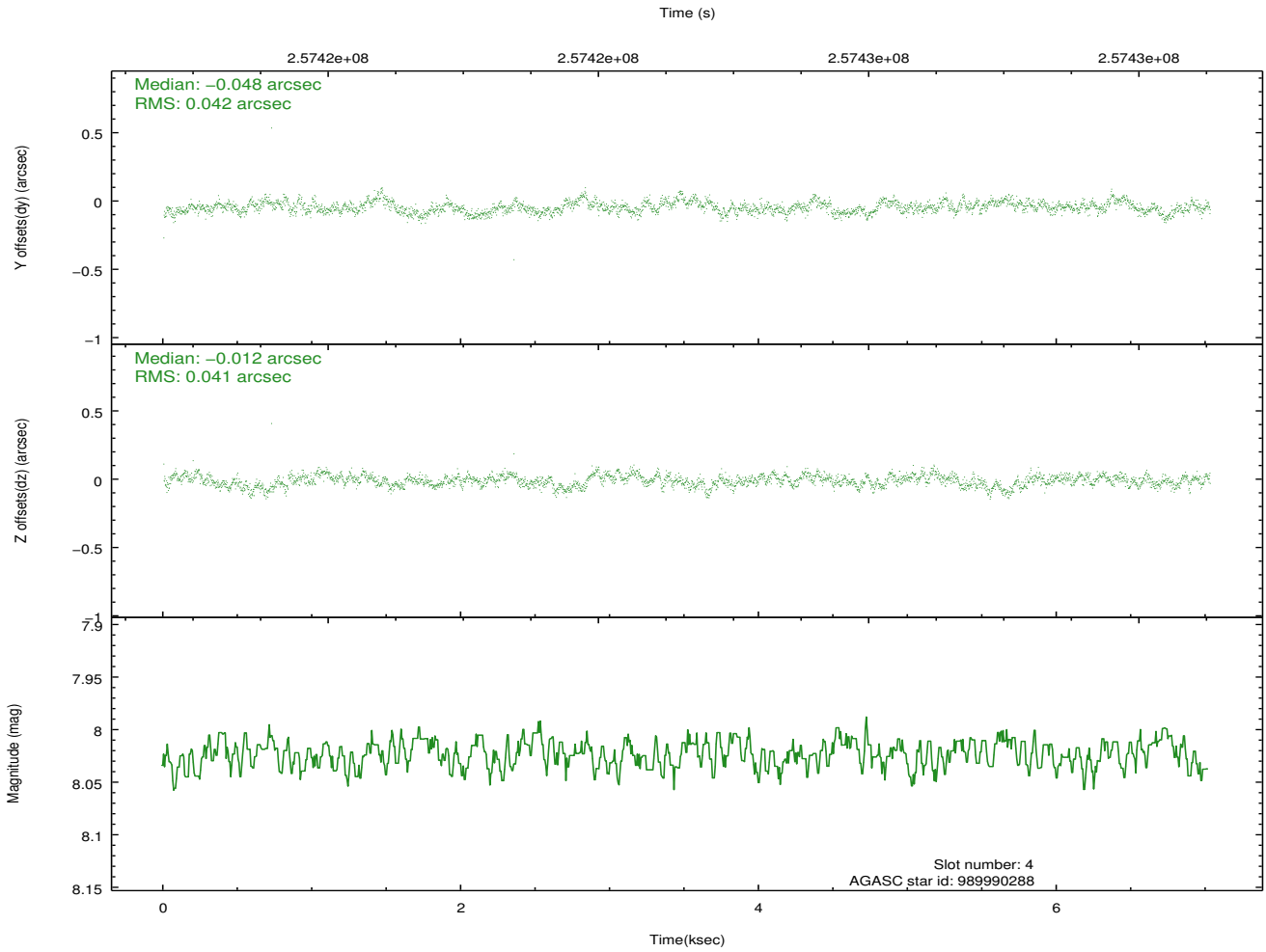
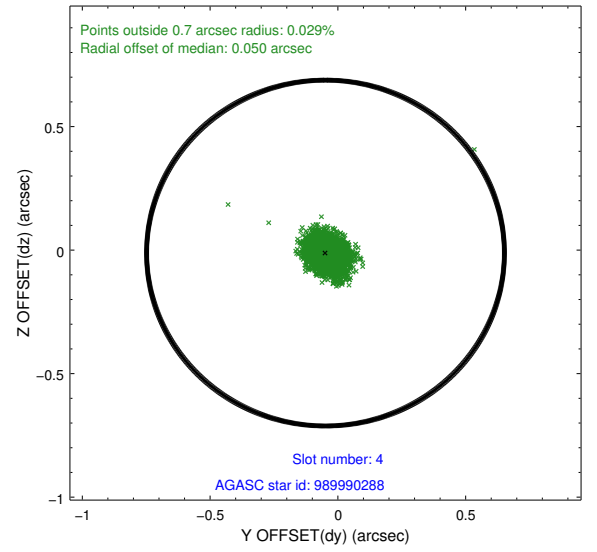
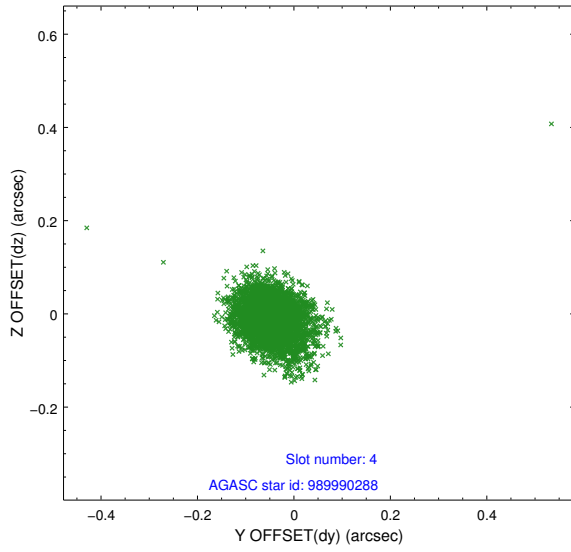
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 1714 | -0.011 | -0.056 | 0.006 | 0.011 | 0.000000 | 0.000000 | -761.34 | -1734.77 |
| 1 | FID | ACIS-S-4 | 7.19 | 1714 | 0.121 | 0.021 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2151.71 | 172.93 |
| 2 | FID | ACIS-S-5 | 7.23 | 1714 | -0.141 | 0.044 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1813.25 | 167.57 |
| 3 | GUIDE | 989069480 | 10.09 | 3428 | 0.087 | 0.117 | 0.125 | 0.204 | 29.788207 | -40.436709 | -634.62 | -312.52 |
| 4 | GUIDE | 989990288 | 8.02 | 3427 | -0.048 | -0.012 | 0.060 | 0.099 | 30.626520 | -40.520267 | -1213.26 | 1928.89 |
| 5 | GUIDE | 989992312 | 8.12 | 3429 | -0.159 | -0.053 | 0.069 | 0.106 | 30.141289 | -40.267805 | -1562.96 | 356.71 |
| 6 | GUIDE | 989993008 | 10.08 | 3424 | 0.122 | 0.014 | 0.244 | 0.351 | 30.190327 | -40.722858 | -93.88 | 1093.70 |
| 7 | GUIDE | 989993272 | 10.35 | 3422 | 0.008 | -0.056 | 0.271 | 0.404 | 30.358405 | -41.137338 | 1120.90 | 2074.11 |

2.4 Star Slots

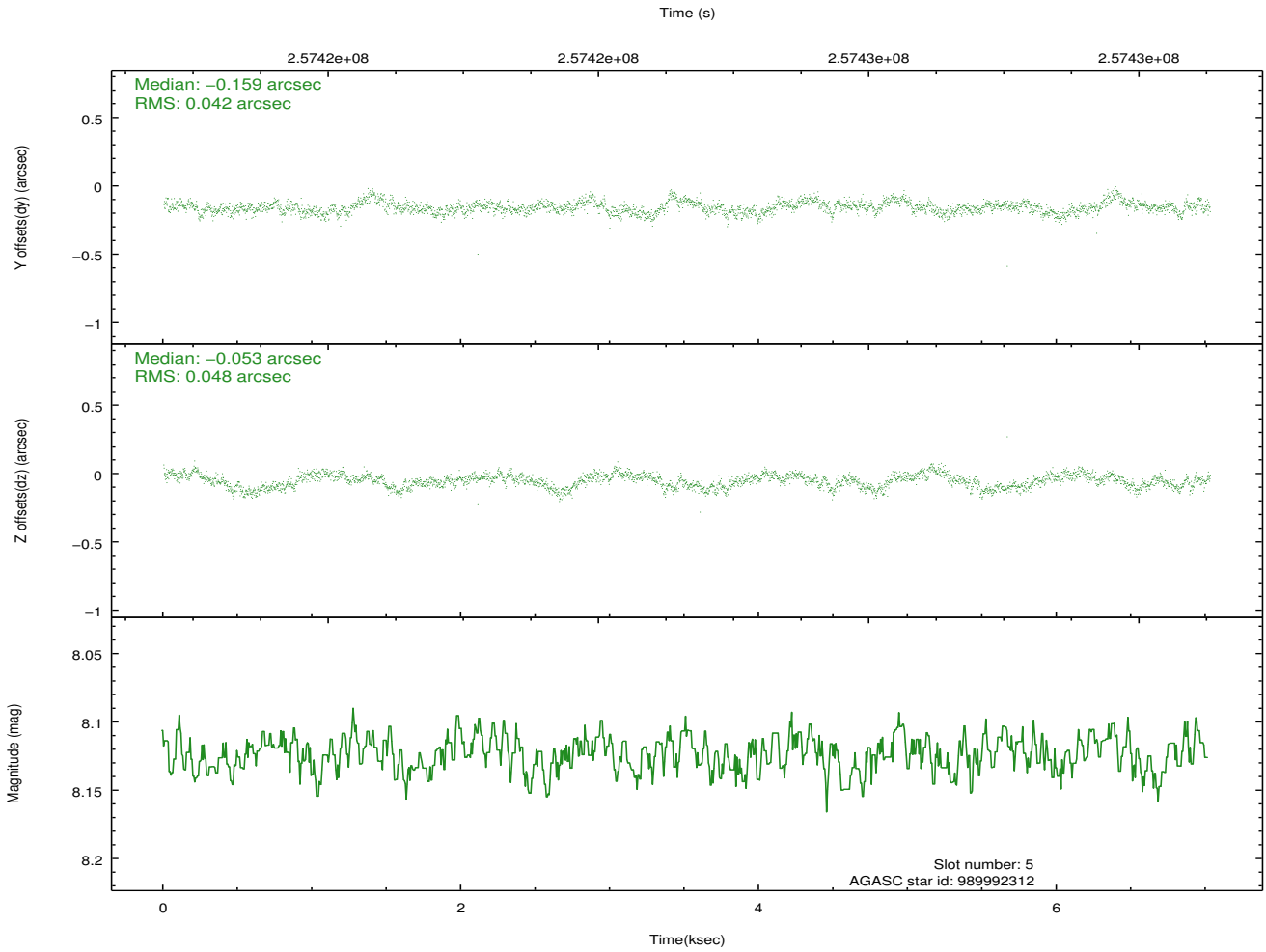
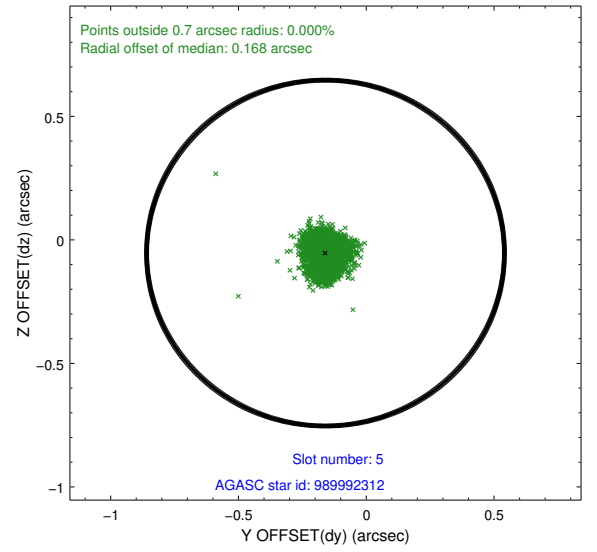
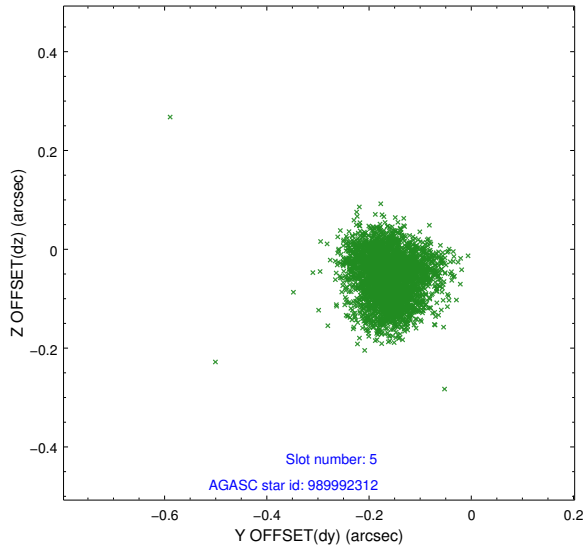
2.4.1 Slot 3



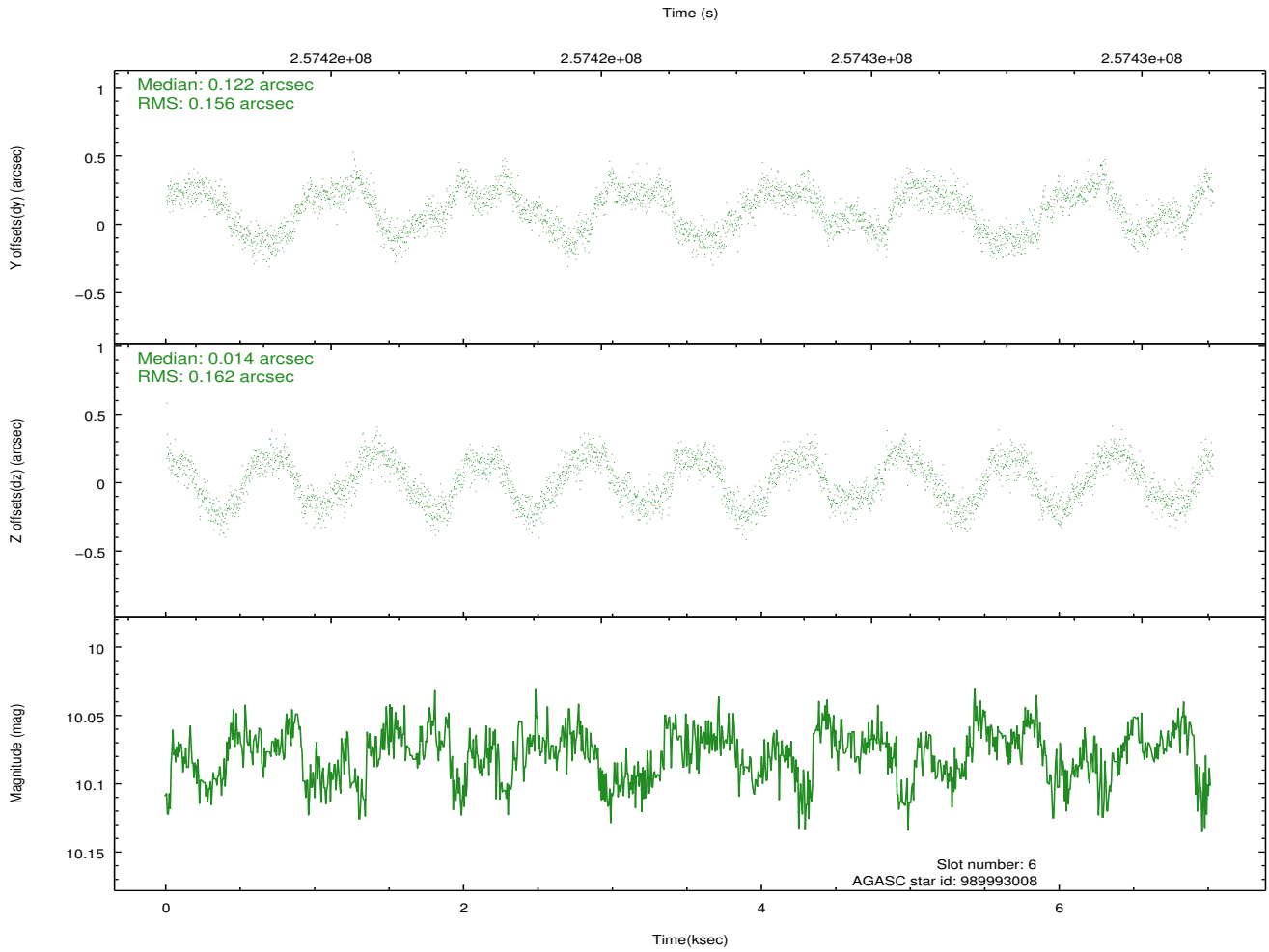
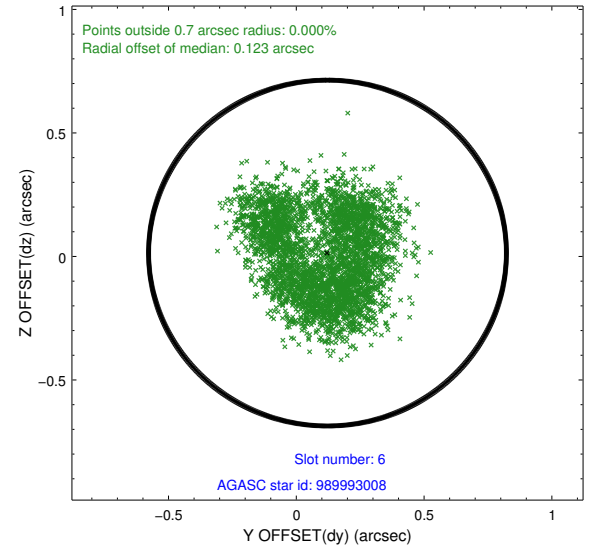
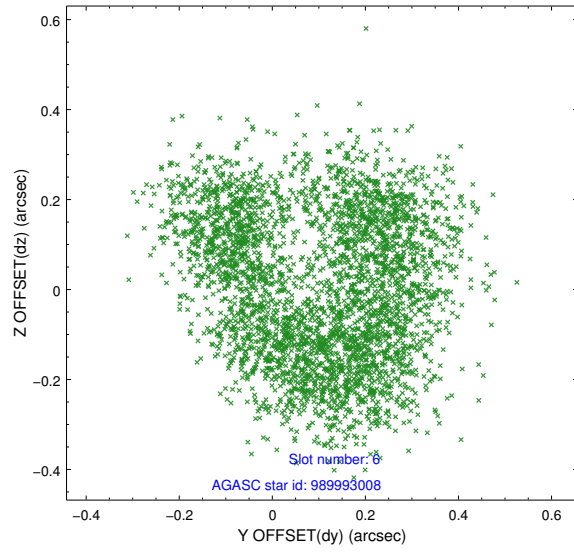
2.4.2 Slot 4



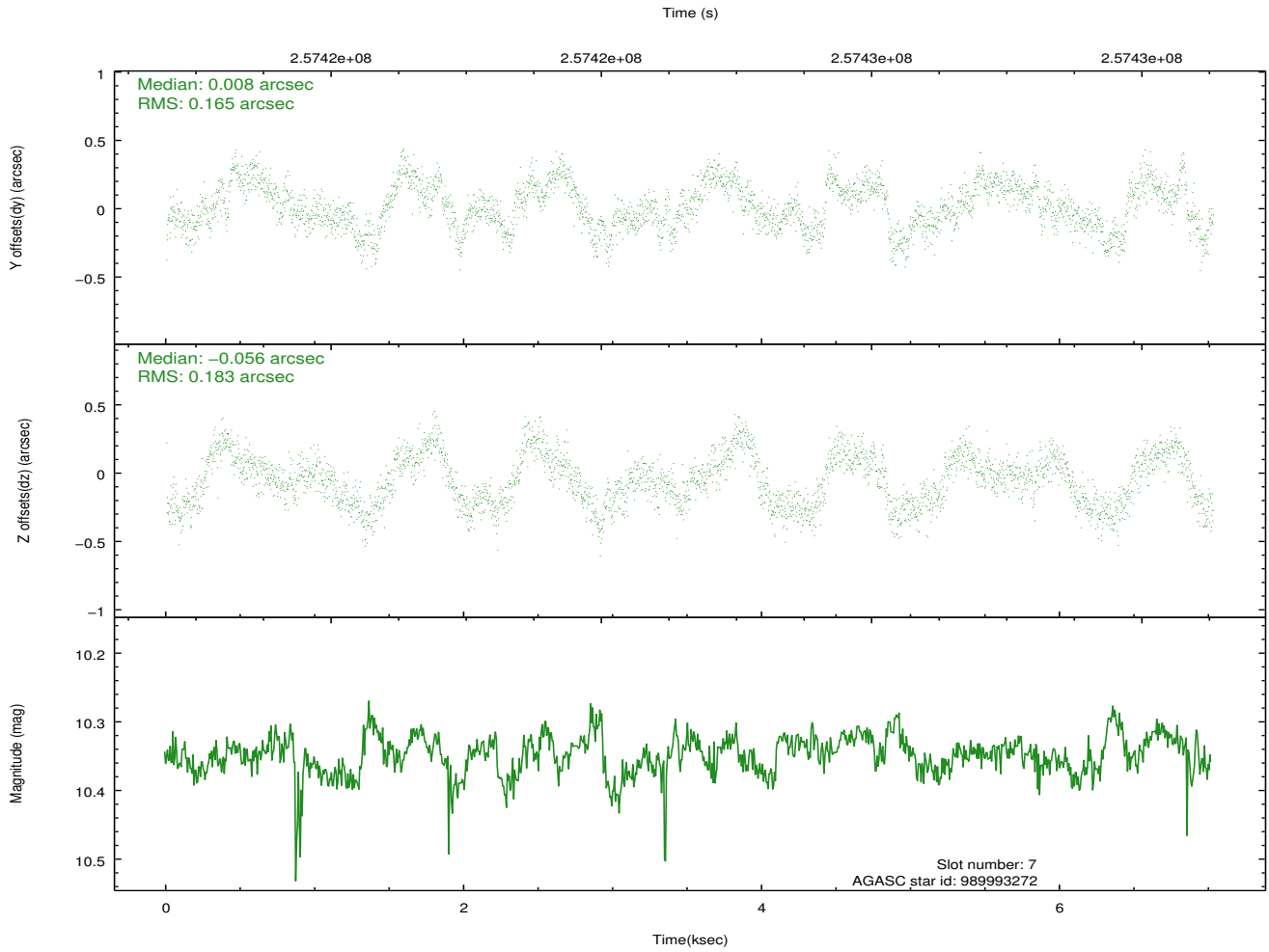
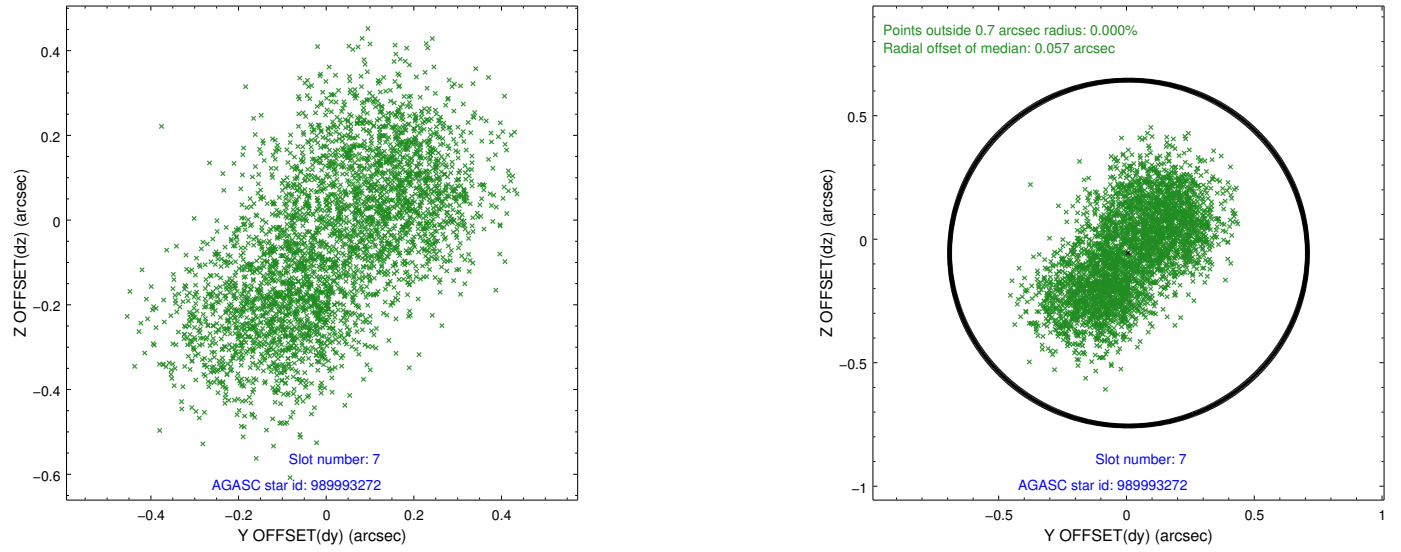
2.4.3 Slot 5



2.4.4 Slot 6

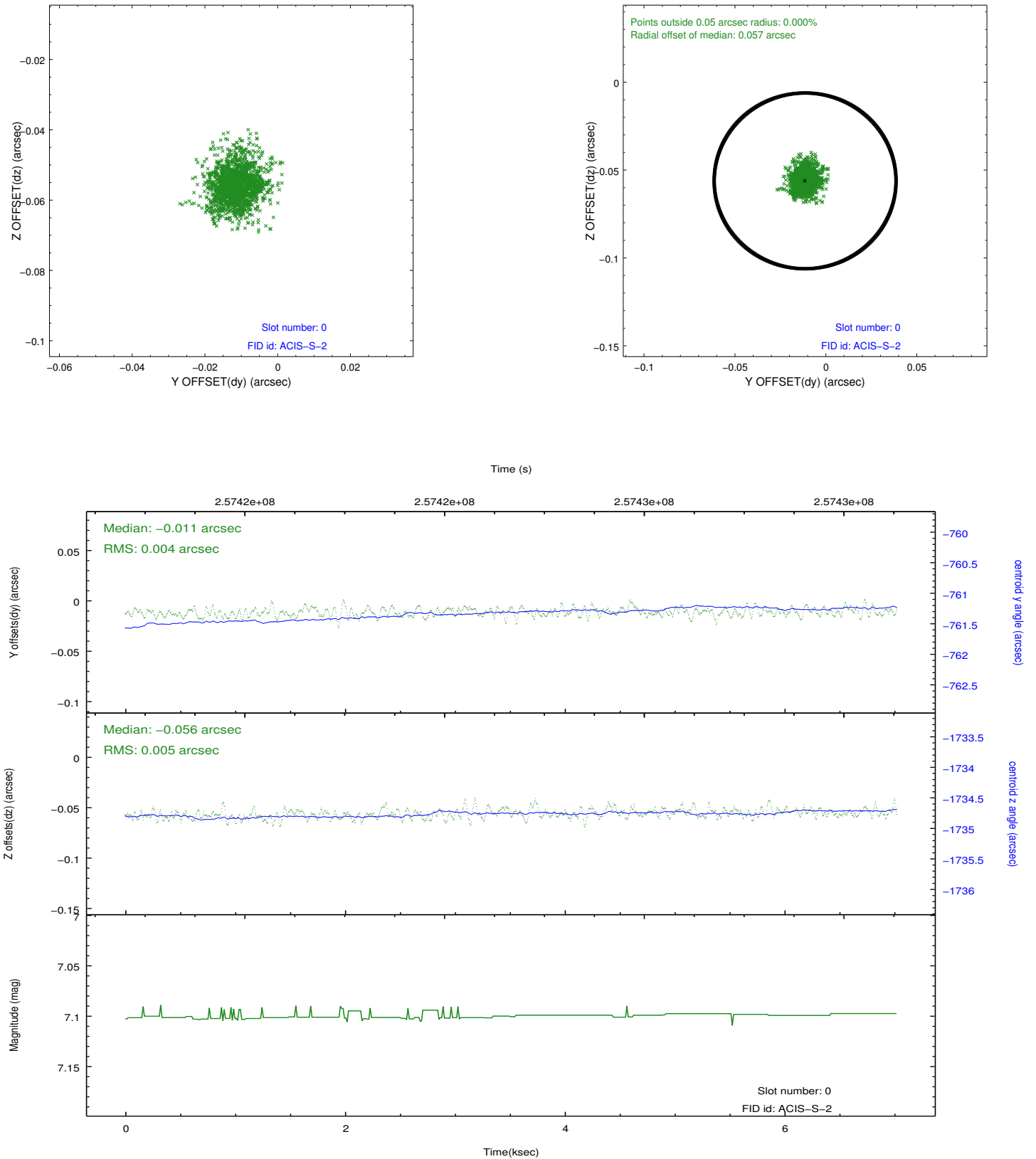


2.4.5 Slot 7

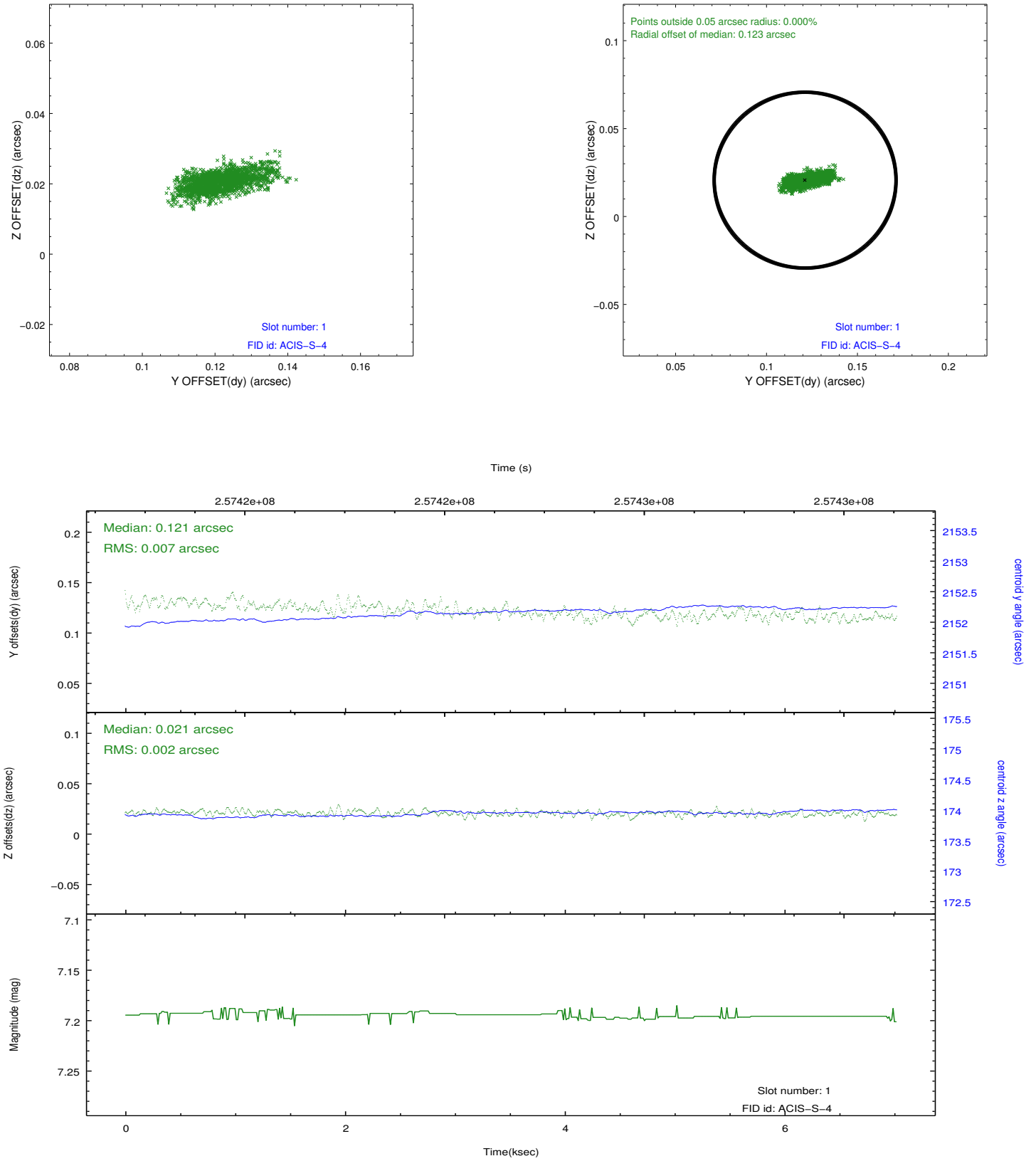


2.5 FID Slots

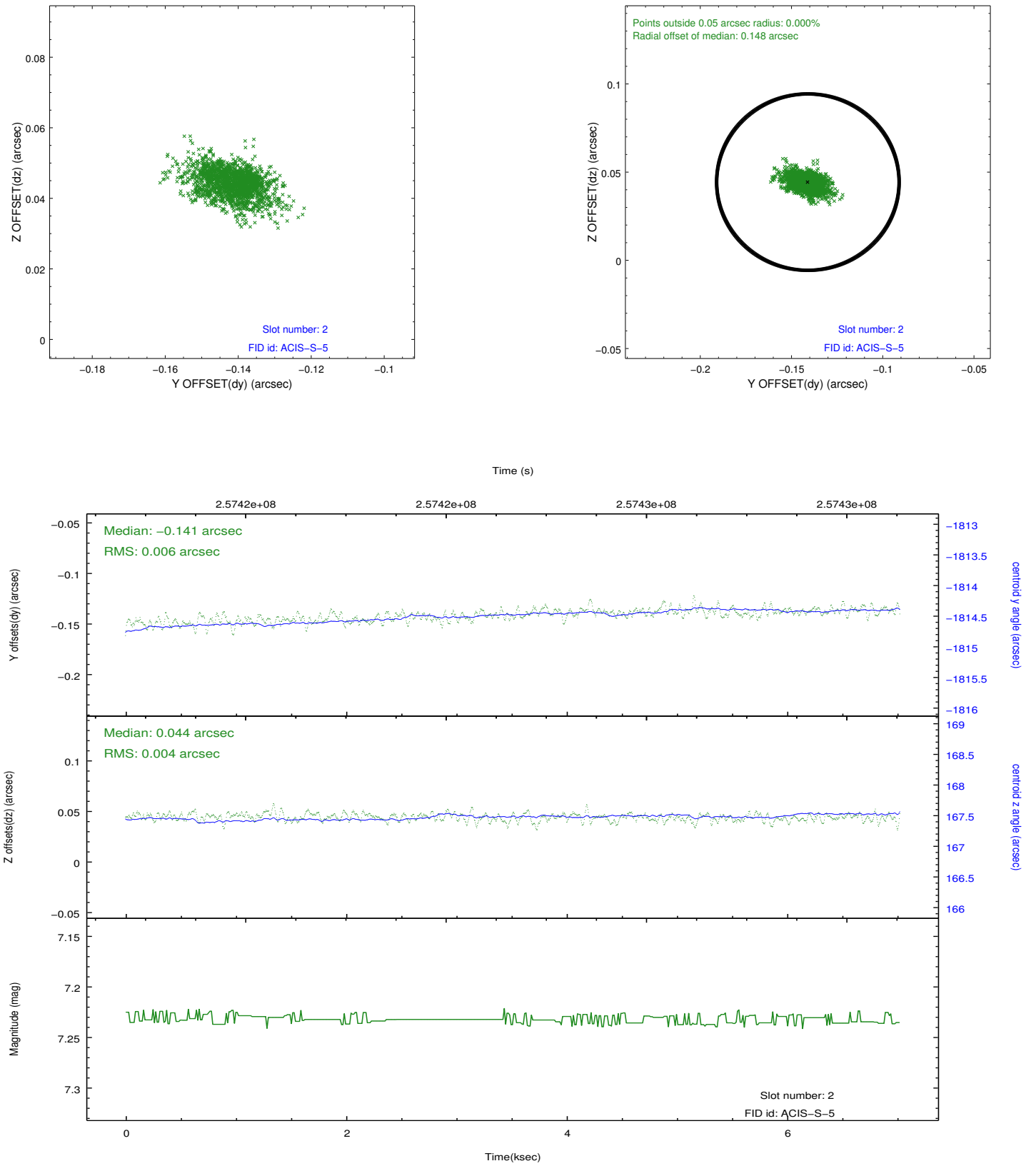
2.5.1 Slot 0



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) | 2012.03.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.95519997 |

A.2 Comments