

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2400 - L2 Version 3
Chandra X-Ray Center

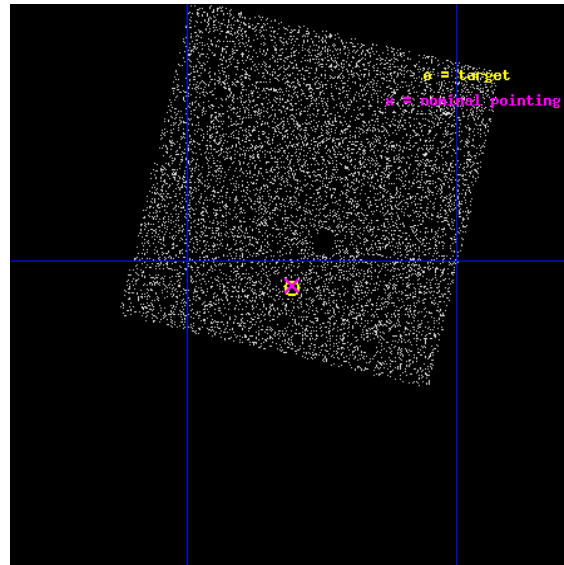
L2 Processing Date : Sep 4 2012

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1 Front

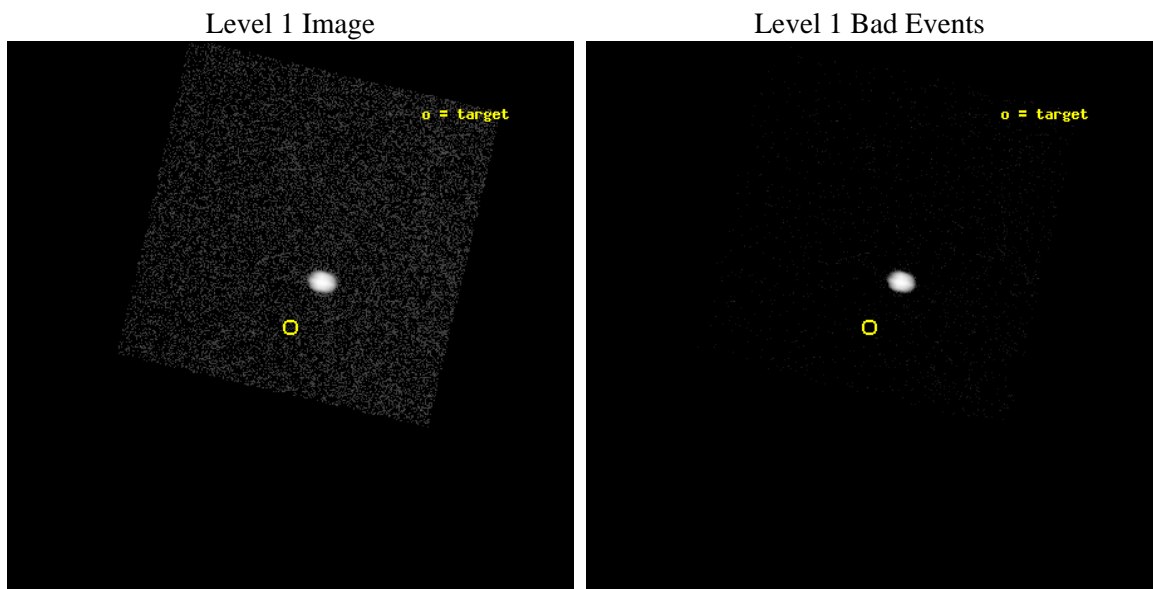
| | | |
|----------|------------------------------|---|
| seq_num | 190002 | Sequence number |
| obs_id | 2400 | Observation id |
| title | ACIS OBSERVATIONS OF JUPITER | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | JUPITER | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 61.701153 | Observer's specified target RA [deg] |
| dec_targ | 19.988495 | Observer's specified target Dec [deg] |
| ra_nom | 61.701501103334 | Nominal RA [deg] |
| dec_nom | 19.989315239526 | Nominal Dec [deg] |
| roll_nom | 283.1397762502 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 3344.0423895568 | Sum of GTIs [s] |
| livetime | 3298.9132562118 | Livetime [s] |
| ontime7 | 3344.0423895568 | Sum of GTIs [s] |
| l2events | 10092 | Number of level 2 events |



2 OBI

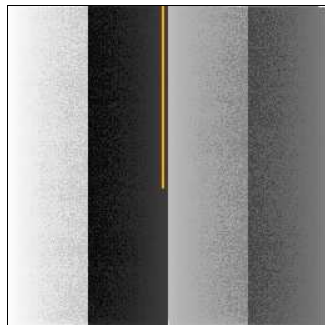
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3500.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 3344.0423895568 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime7 | 3344.0423895568 | Sum of GTIs [s] |
| date | 2012-09-05T01:28:12 | Date and time of file creation | l1events | 151477 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

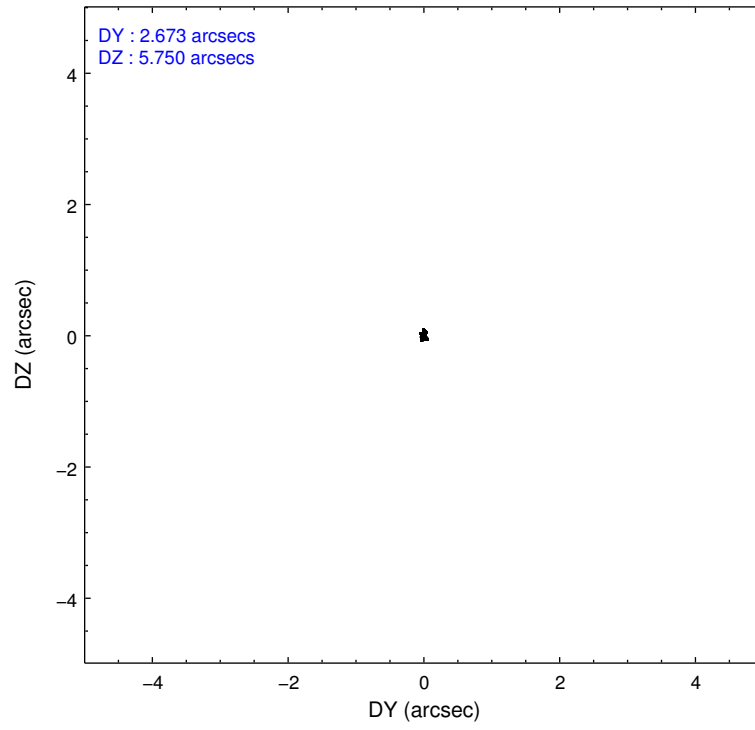
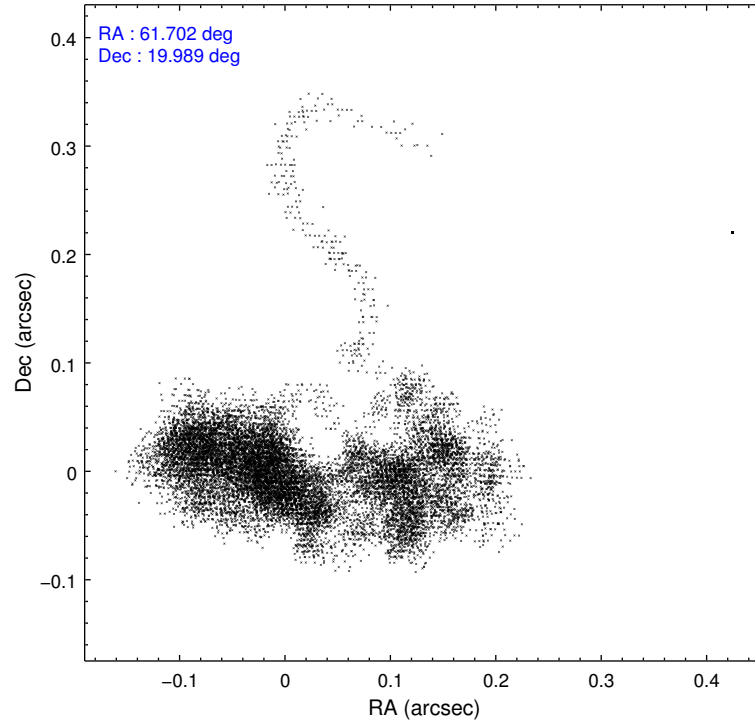
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 151477 |
| rejected events | 141216 |
| rejected % | 93% |

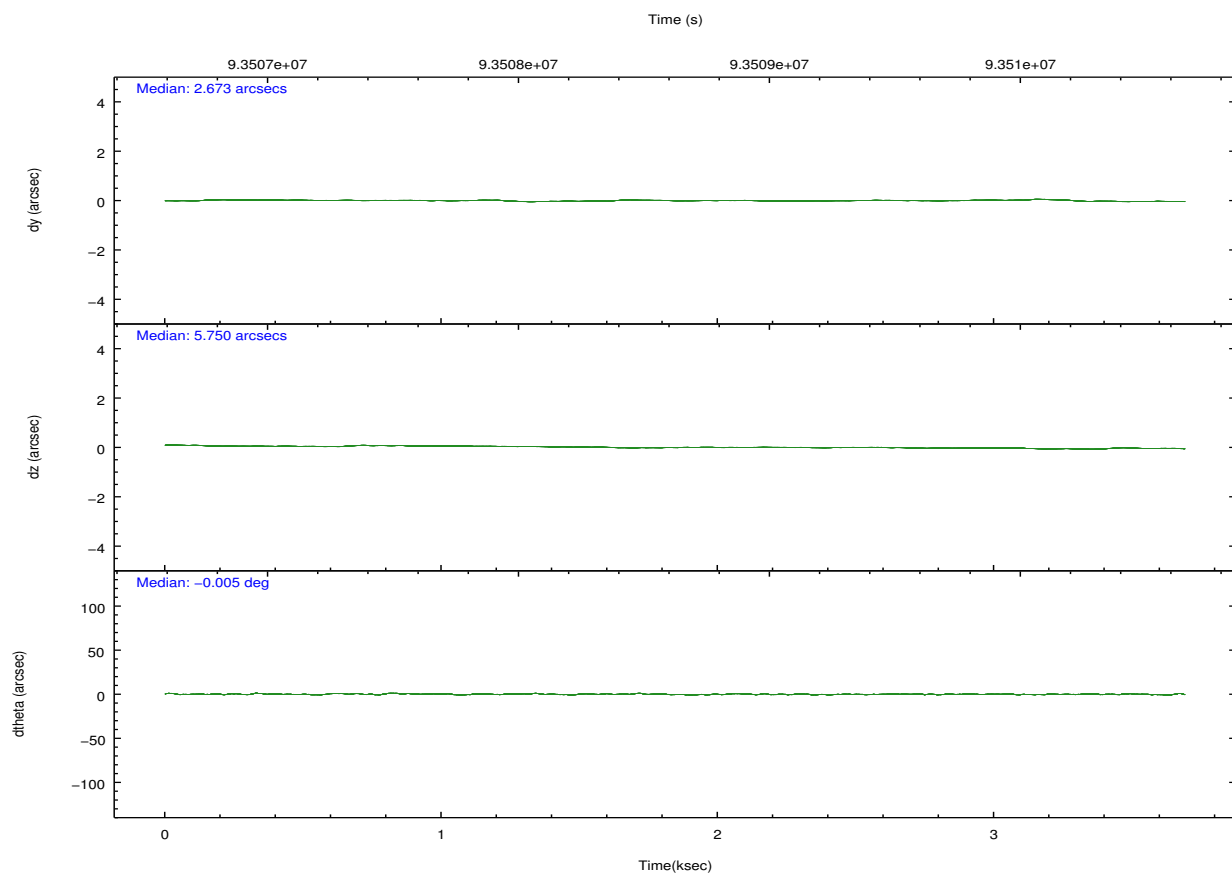
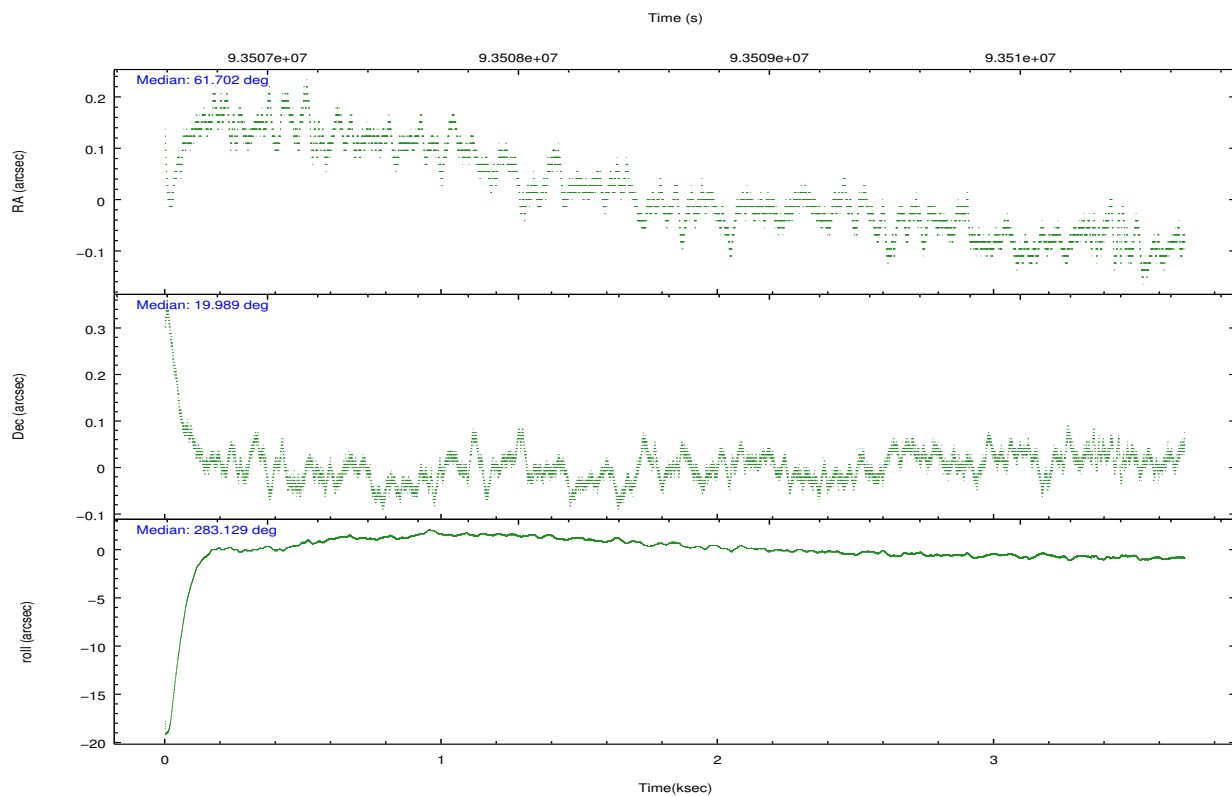
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 887 |
| | 0% |
| grade 1 events | 24 |
| | 0% |
| grade 2 events | 2170 |
| | 1% |
| grade 3 events | 841 |
| | 0% |
| grade 4 events | 861 |
| | 0% |
| grade 5 events | 2370 |
| | 1% |
| grade 6 events | 5507 |
| | 3% |
| grade 7 events | 138817 |
| | 91% |

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 | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 61.681407 | 61.70150110333417 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 20.009107 | 19.98931523952553 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 282.990018 | 283.1397762501992 | [s] Primary exposure time | 0.000000 | 3 |
| [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) | 93506970.184000 | 93506594.293308 | | | |
| Observation start date | 2000-12-18T06:08:26 | 2000-12-18T06:03:14 | | | |
| [s] Observation end time (MET) | 93510470.184000 | 93510604.09346101 | | | |
| Observation end date | 2000-12-18T07:06:46 | 2000-12-18T07:10:04 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



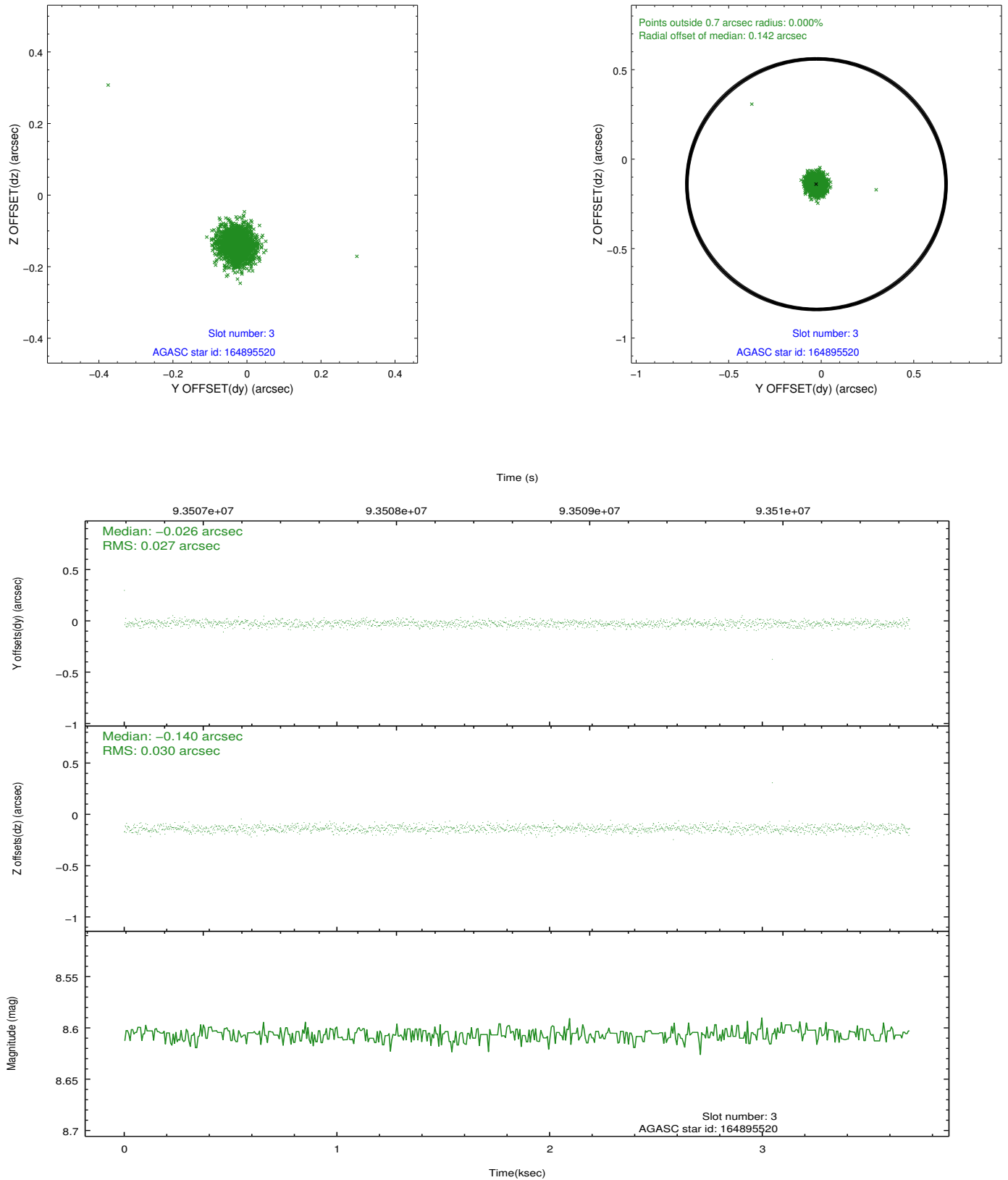


Slot Statistics

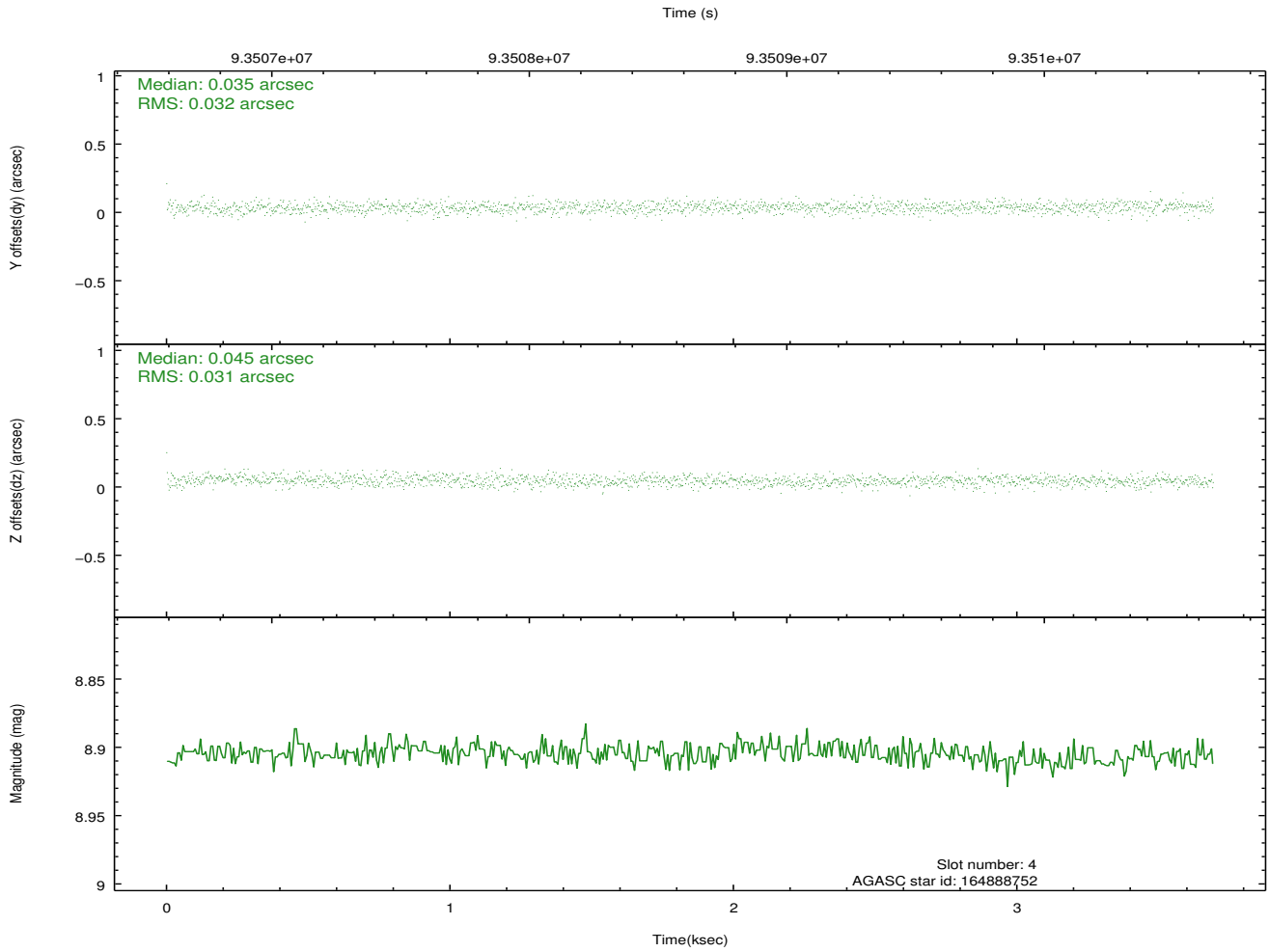
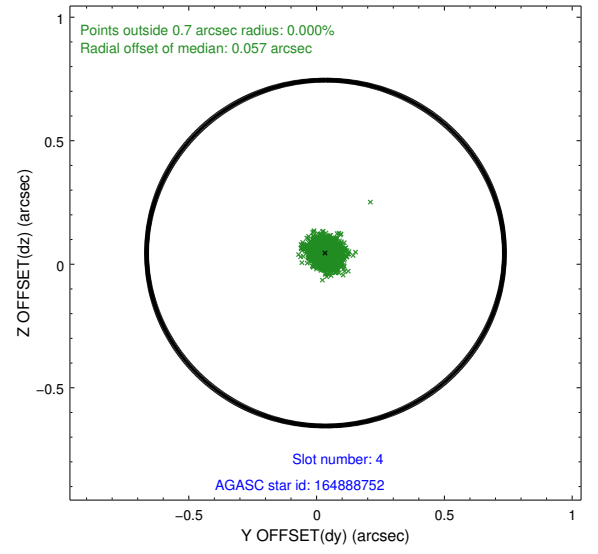
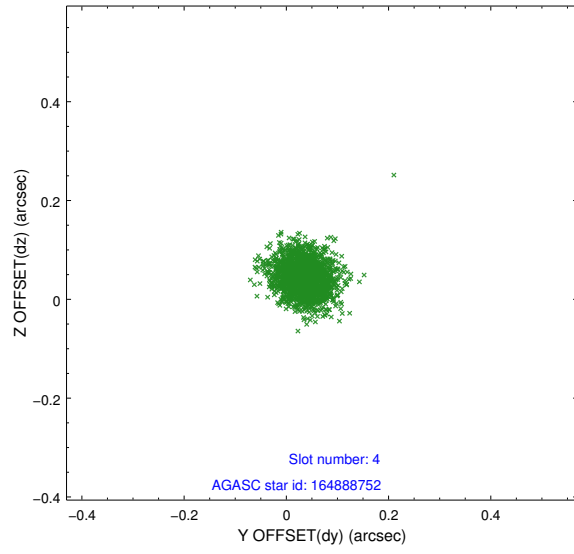
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 901 | -0.028 | 0.018 | 0.006 | 0.010 | 0.000000 | 0.000000 | -755.30 | -1726.89 |
| 1 | FID | ACIS-S-4 | 7.21 | 901 | -0.028 | 0.009 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2157.18 | 179.88 |
| 2 | FID | ACIS-S-5 | 7.24 | 901 | 0.024 | -0.018 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1805.93 | 175.40 |
| 3 | GUIDE | 164895520 | 8.61 | 1802 | -0.026 | -0.140 | 0.040 | 0.065 | 61.309800 | 20.139312 | -740.83 | -1118.89 |
| 4 | GUIDE | 164888752 | 8.90 | 1802 | 0.035 | 0.045 | 0.047 | 0.076 | 61.568386 | 19.874602 | 384.82 | -482.60 |
| 5 | GUIDE | 164890352 | 9.06 | 1802 | -0.027 | -0.174 | 0.049 | 0.080 | 61.028629 | 19.972872 | -373.57 | -2181.44 |
| 6 | GUIDE | 165022968 | 9.64 | 1801 | 0.021 | 0.041 | 0.065 | 0.110 | 62.230781 | 20.386000 | -909.51 | 2110.36 |
| 7 | GUIDE | 165021720 | 9.52 | 1799 | -0.001 | 0.228 | 0.067 | 0.110 | 62.234537 | 20.170723 | -151.27 | 1953.72 |

2.4 Star Slots

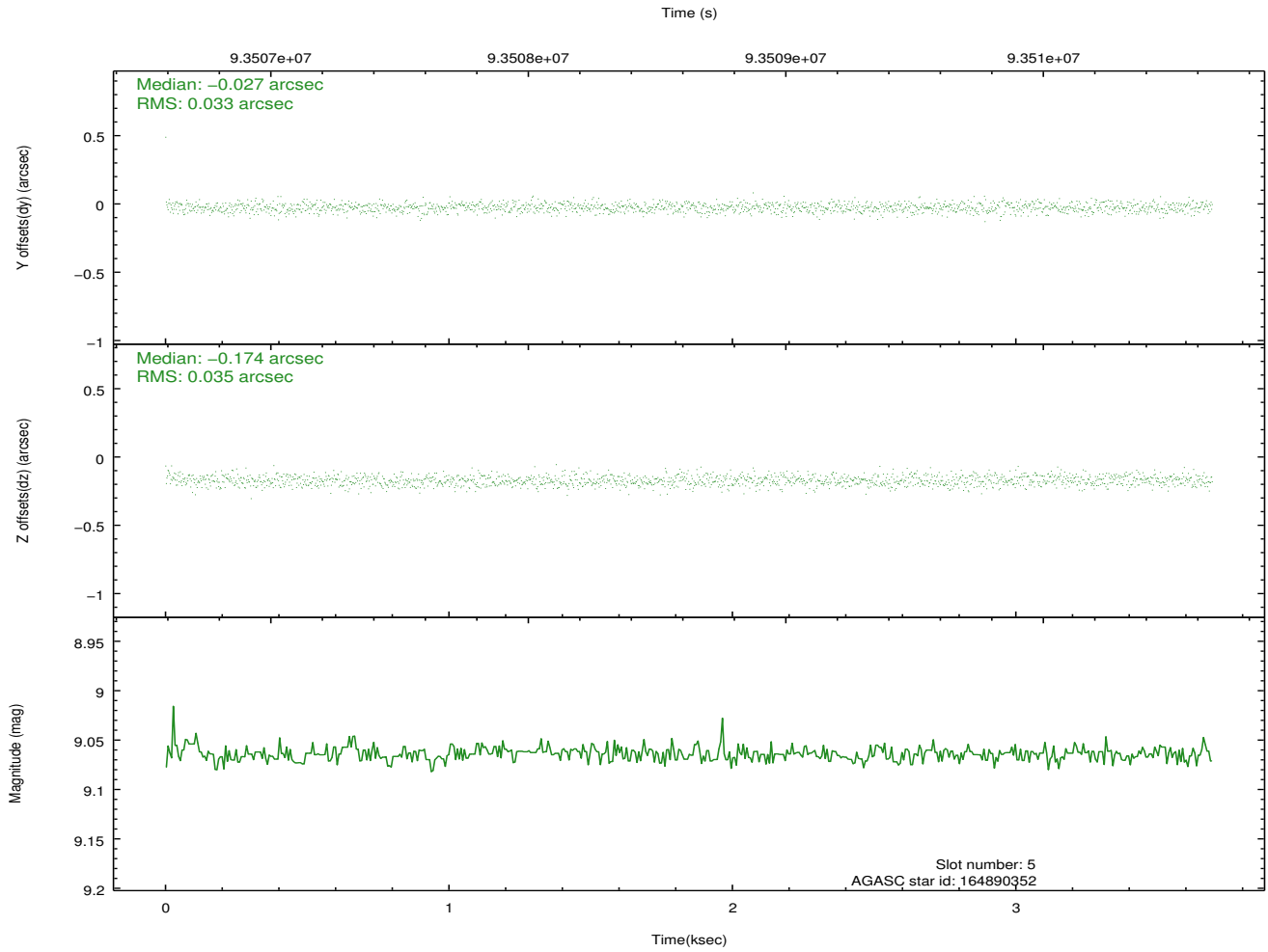
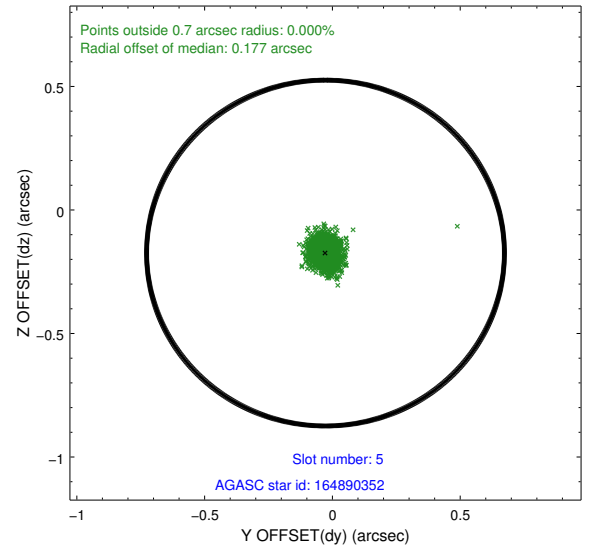
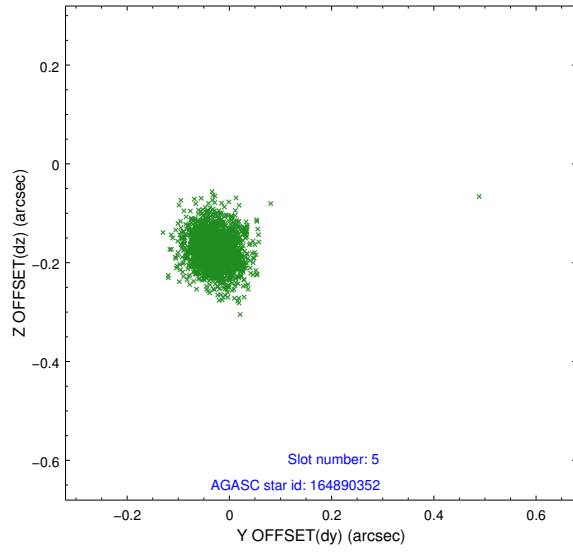
2.4.1 Slot 3



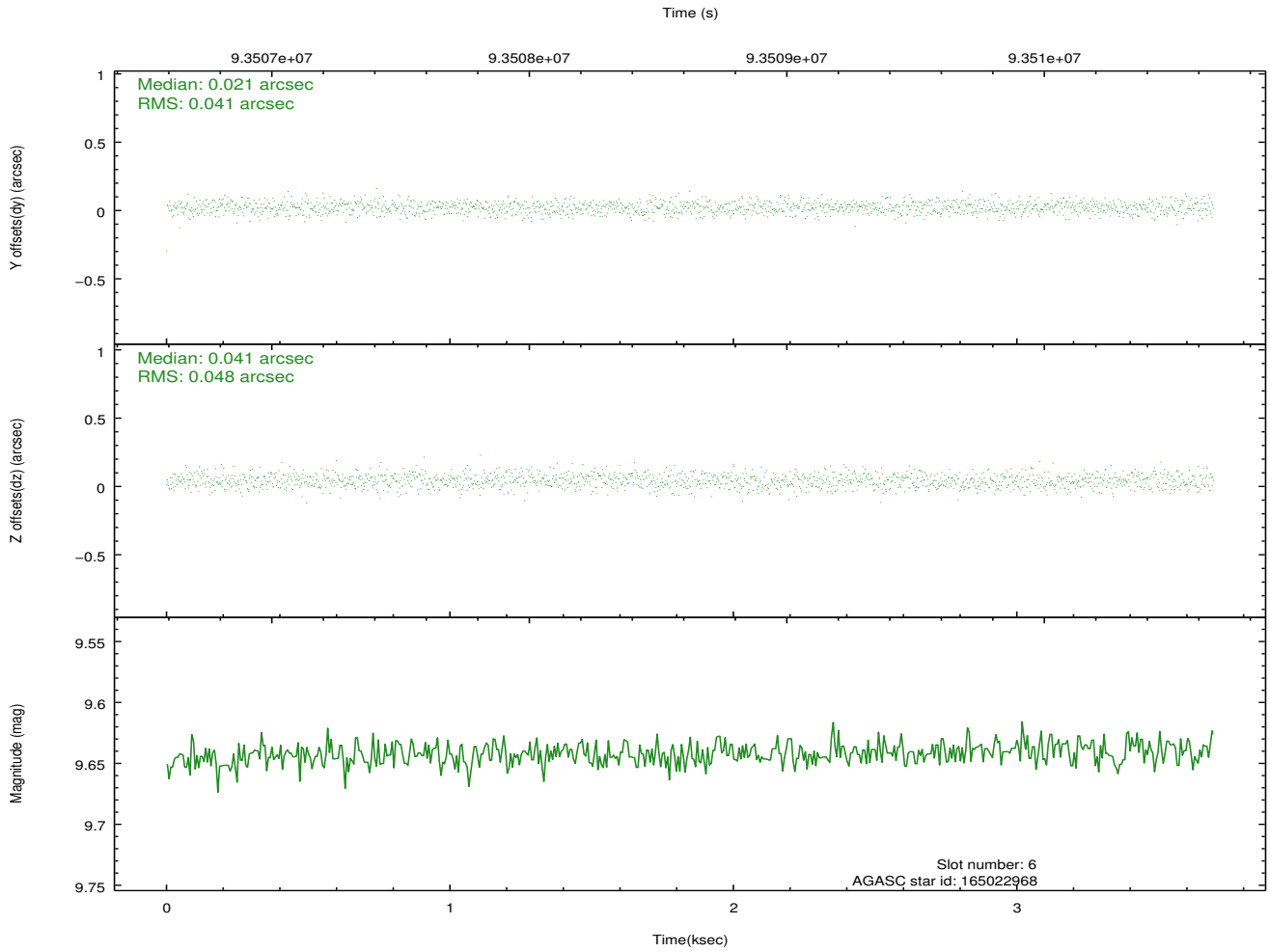
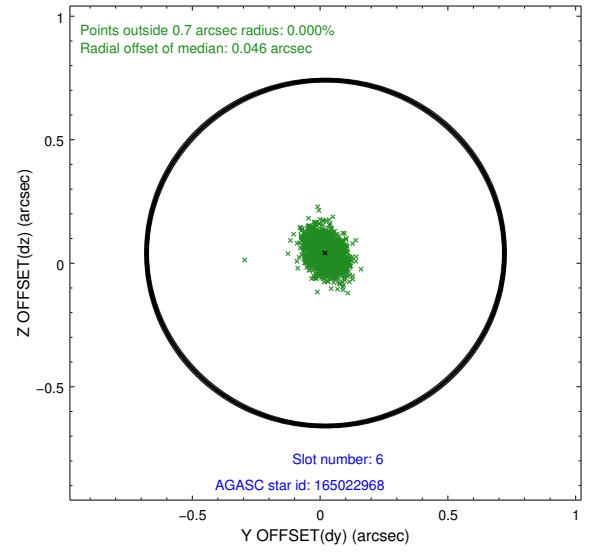
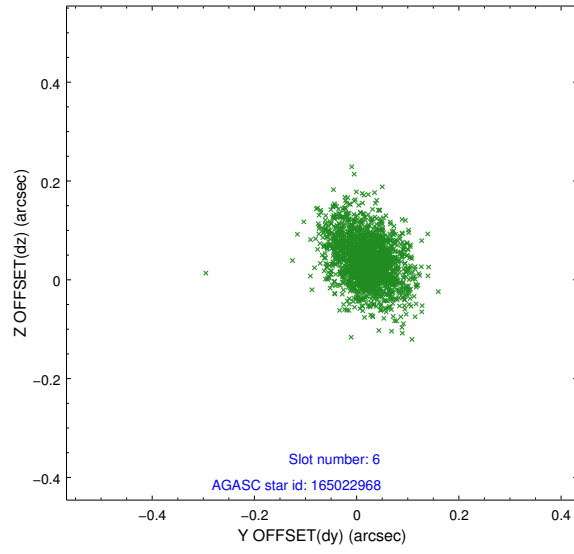
2.4.2 Slot 4



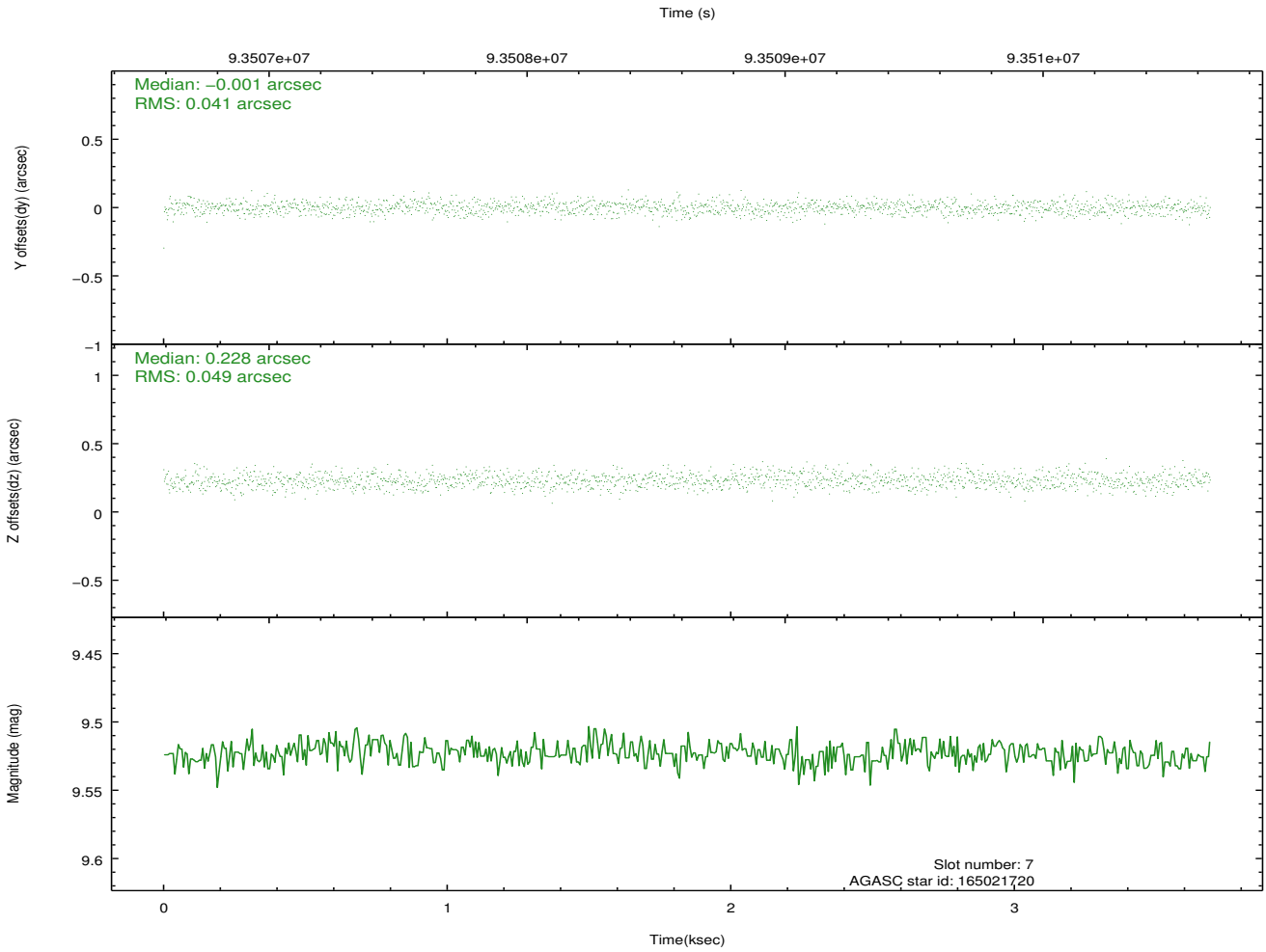
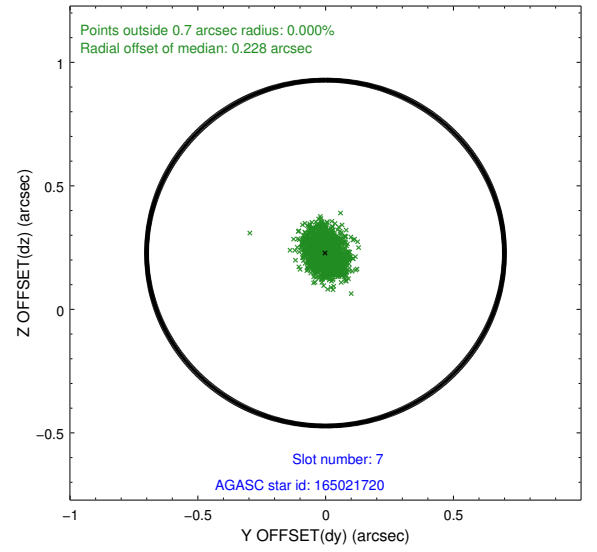
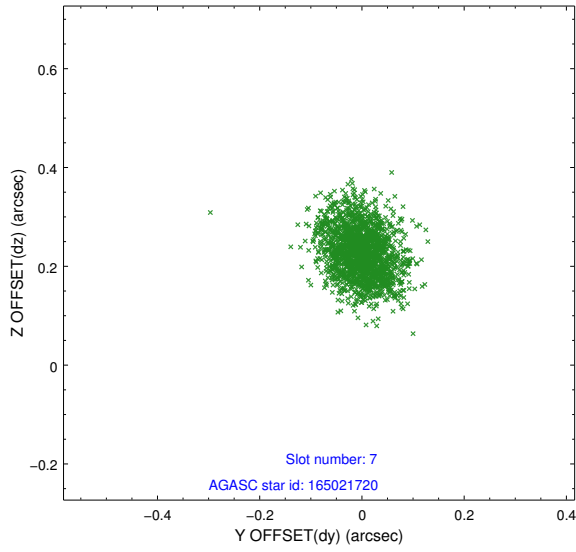
2.4.3 Slot 5



2.4.4 Slot 6

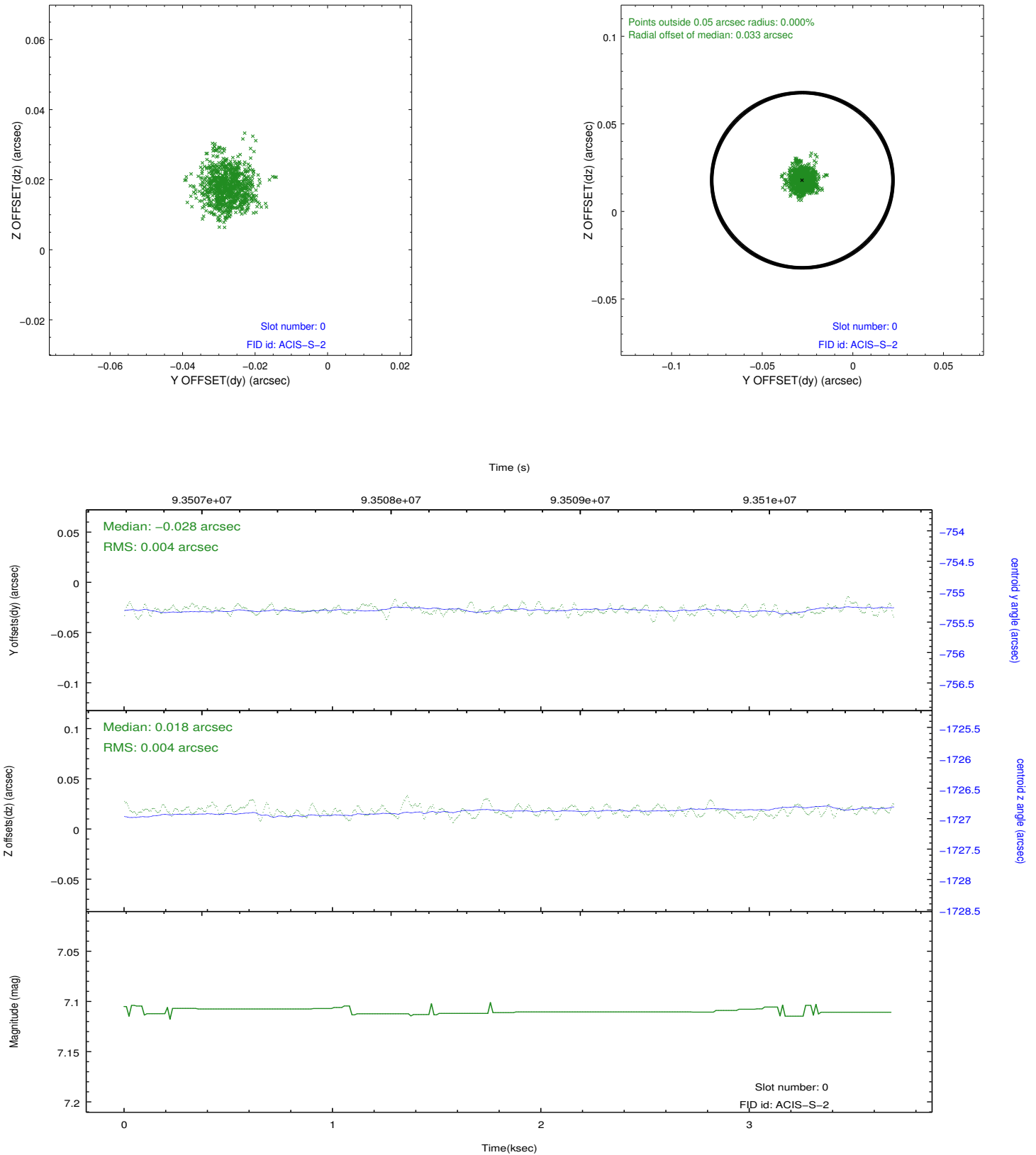


2.4.5 Slot 7

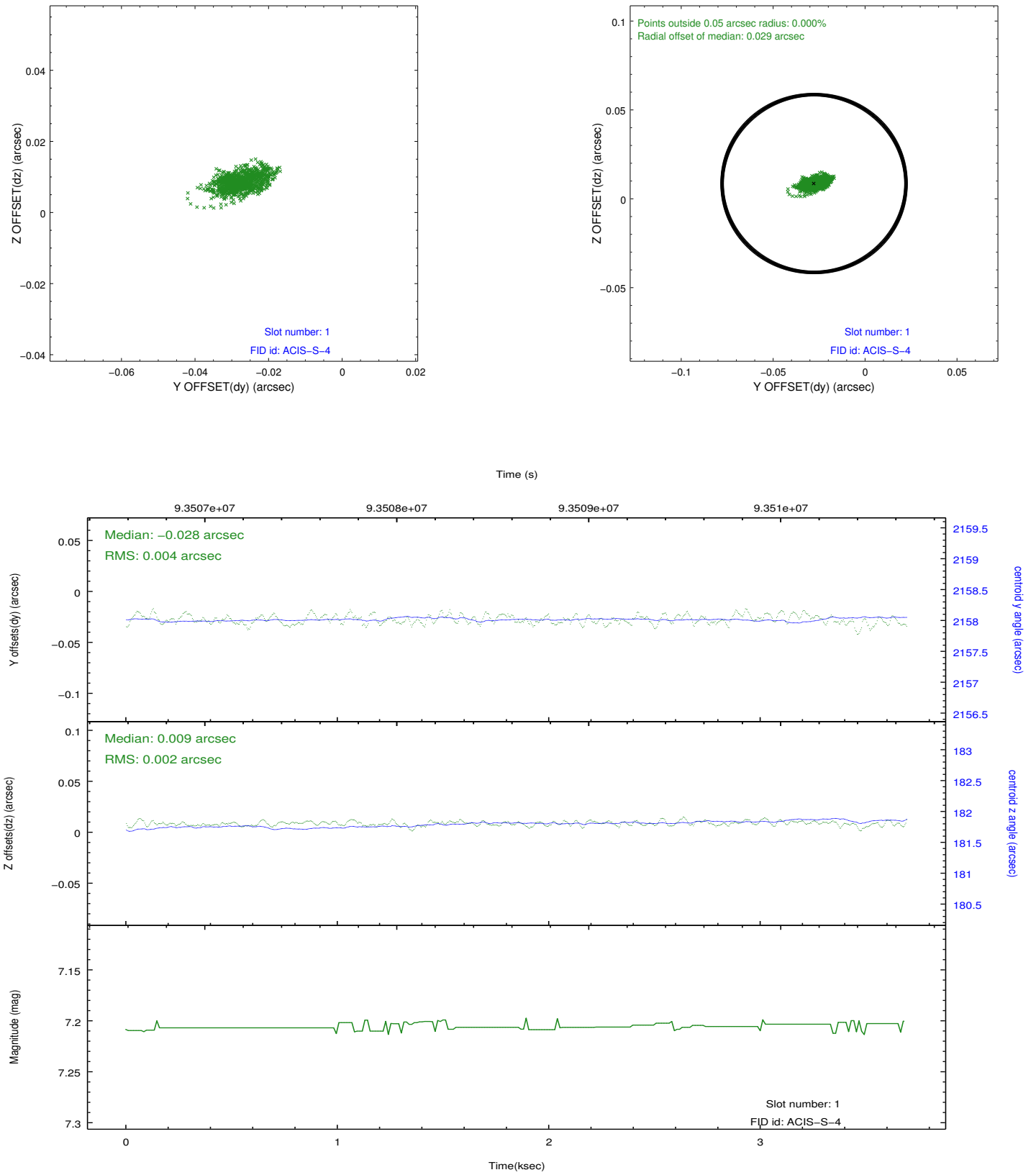


2.5 FID Slots

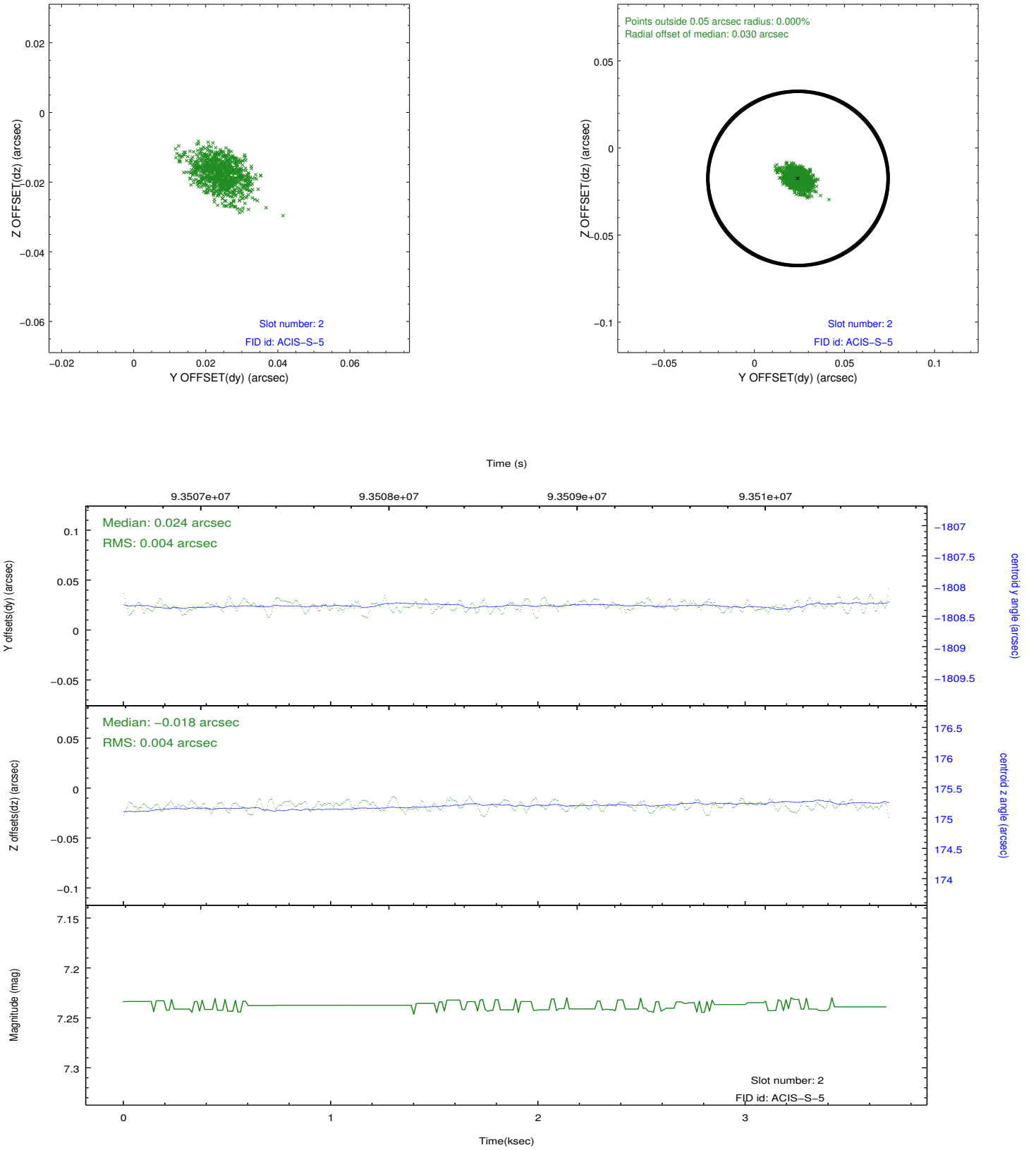
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.09.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.345 |

A.2 Comments