

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 5111 - L2 Version 3
Chandra X-Ray Center

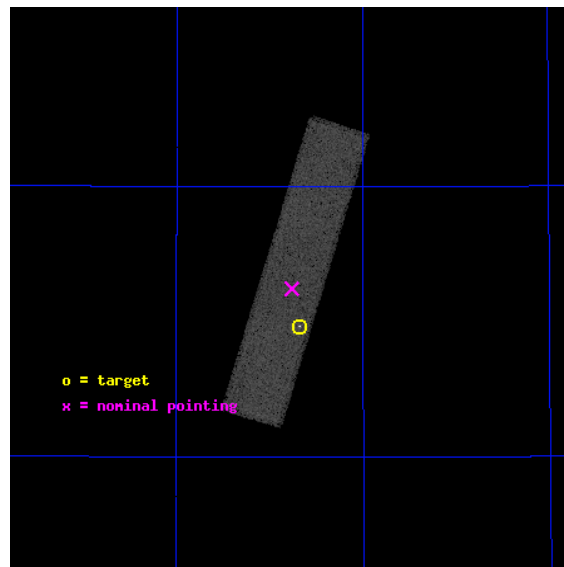
L2 Processing Date : Dec 12 2012

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1 Front

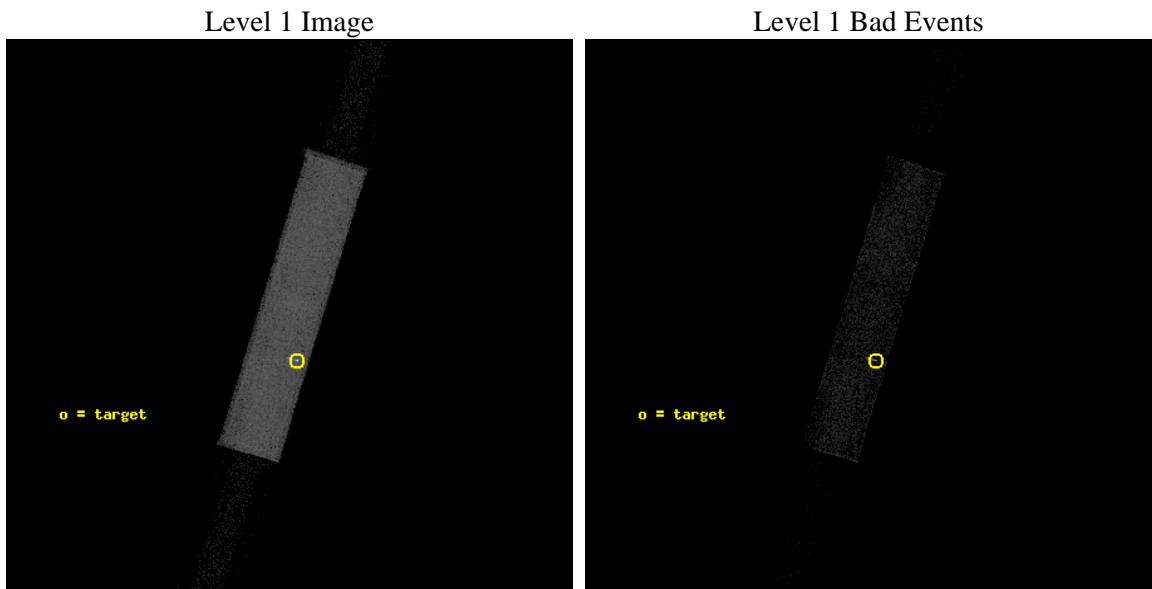
| | | |
|----------|---|---------------------------------------|
| seq_num | 290384 | Sequence number |
| obs_id | 5111 | Observation id |
| title | AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ArLac | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.19073061129 | Nominal RA [deg] |
| dec_nom | 45.811482061969 | Nominal Dec [deg] |
| roll_nom | 286.94629153801 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1052.6750473678 | [s] |
| livetime | 1043.8832098418 | Ontime multiplied by DTCOR |
| l2events | 61006 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 900.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.5 | Processing system revision | ontime | 1052.6750473678 | [s] |
| caldsver | 4.5.4 | | l1events | 108559 | Number of level 1 events |
| date | 2012-12-12T00:11:15 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

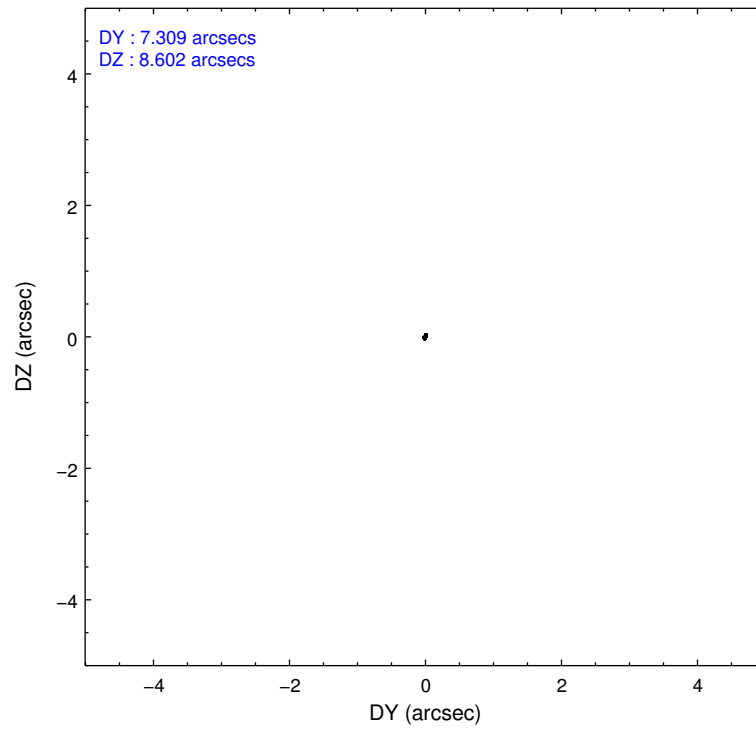
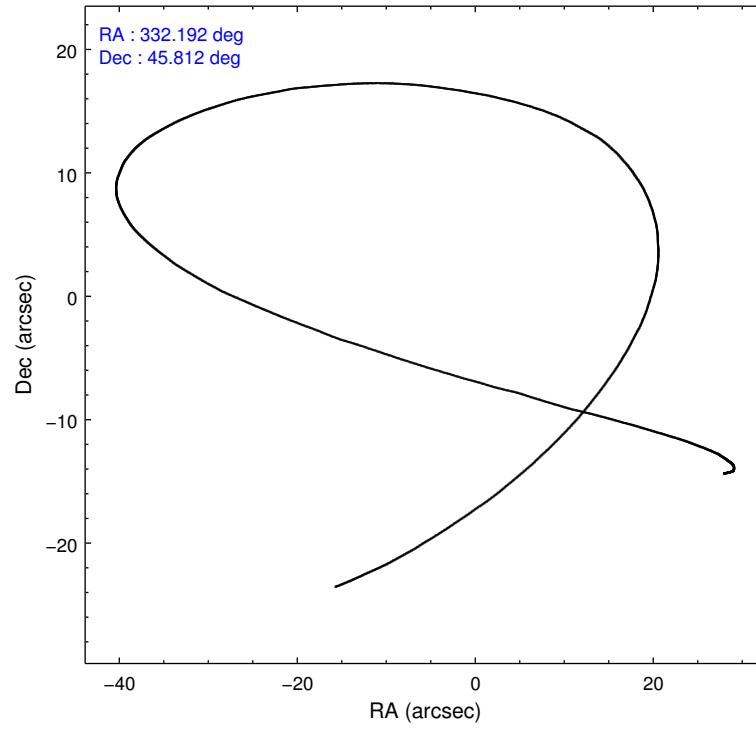
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 1298 | 106144 | 1117 |
| rejected events | 1298 | 34181 | 1117 |
| rejected % | 100% | 32% | 100% |

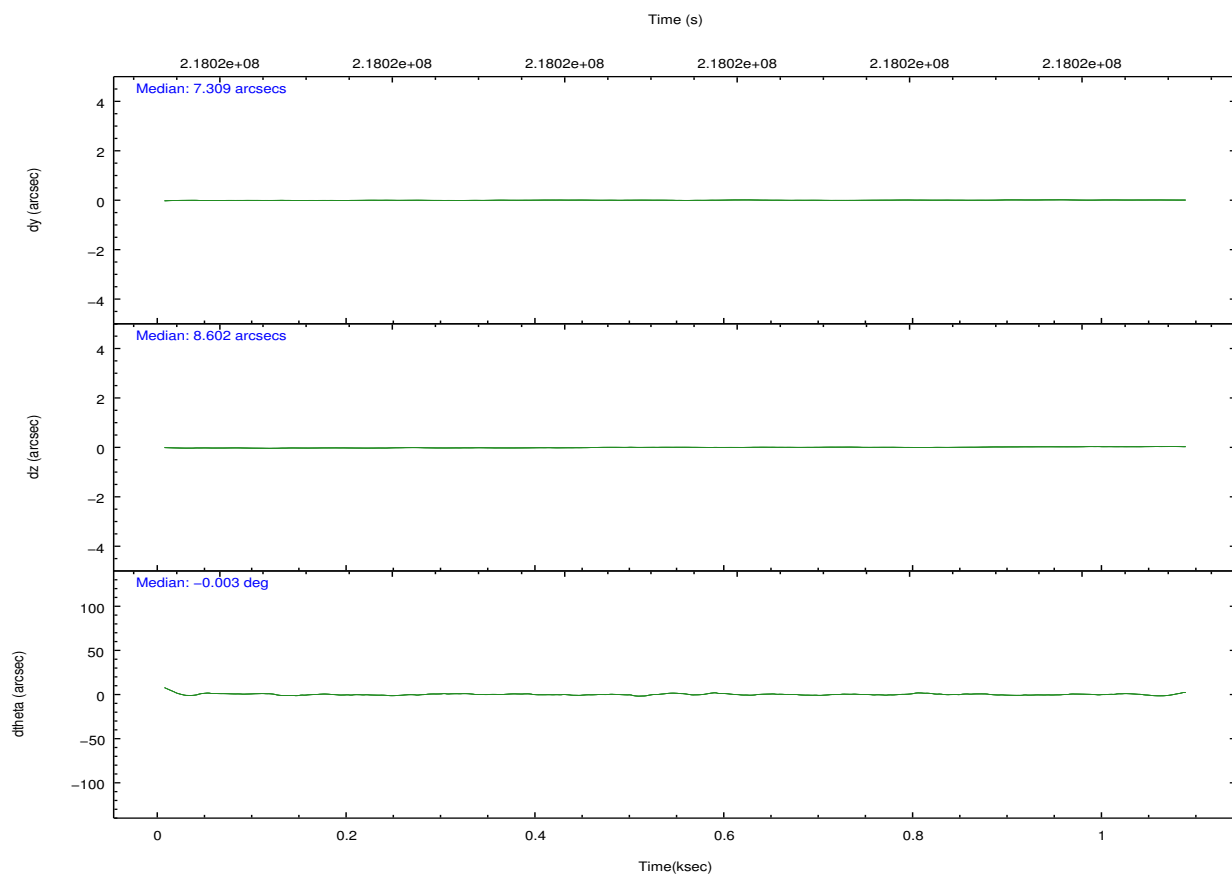
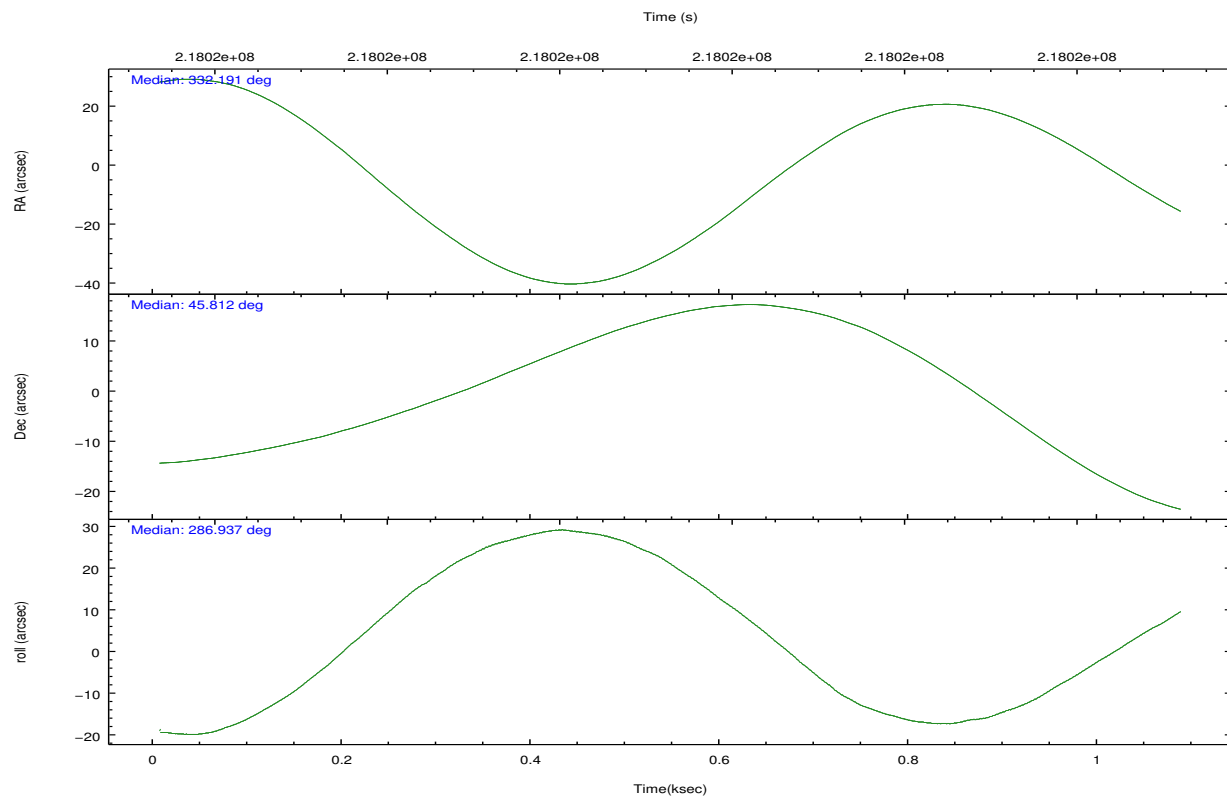
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-S | HRC-S |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 332.158396 | 332.1907306112886 |
| [deg] Pointing Dec | 45.829727 | 45.81148206196874 |
| [deg] Pointing Roll | 286.902154 | 286.9462915380064 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 218021373.184000 | 218020996.4938 |
| Observation start date | 2004-11-28T09:28:29 | 2004-11-28T09:23:16 |
| [s] Observation end time (MET) | 218022273.184000 | 218022406.89386 |
| Observation end date | 2004-11-28T09:43:29 | 2004-11-28T09:46:46 |

| Parameter | Planned | Actual |
|------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect



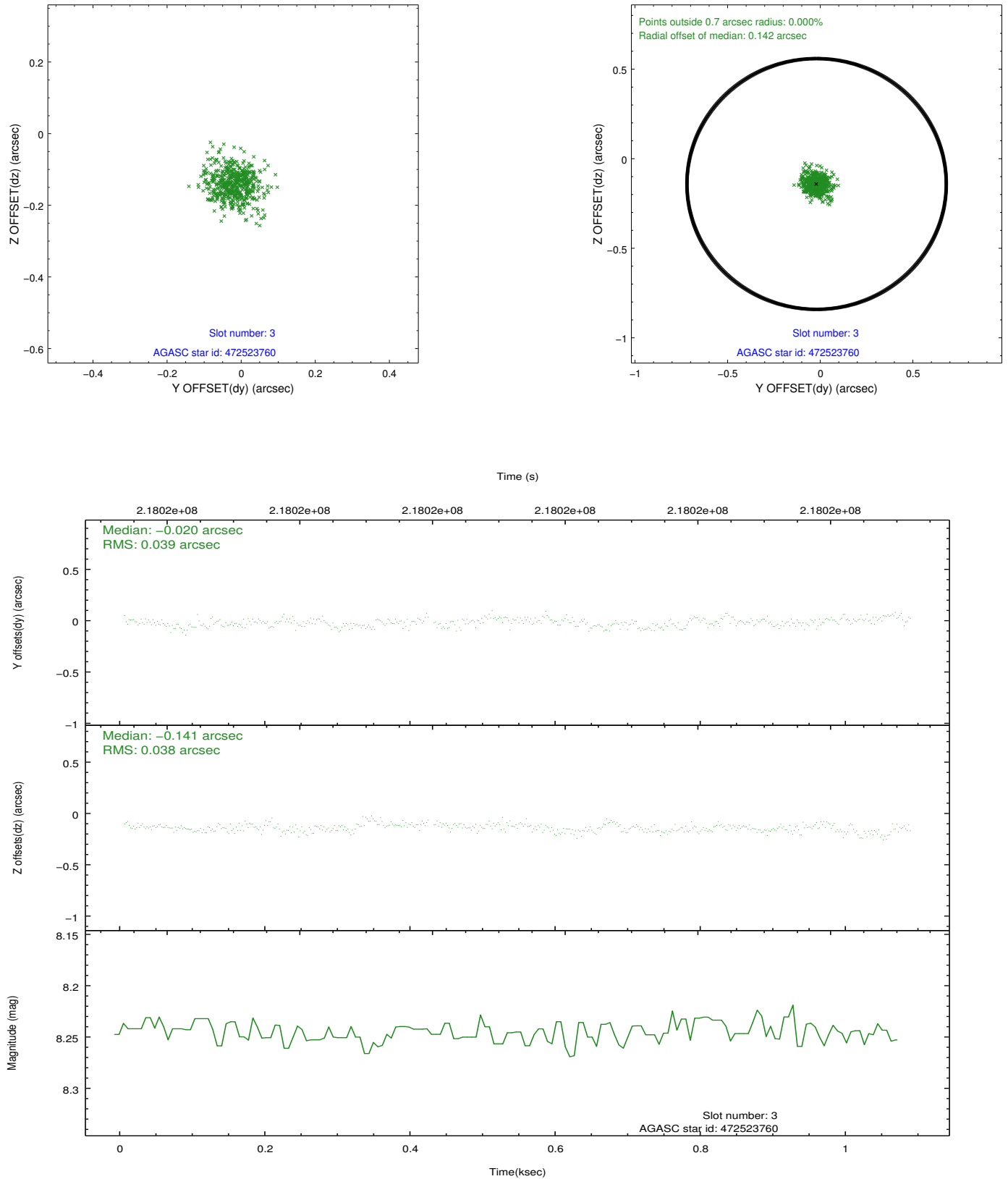


Slot Statistics

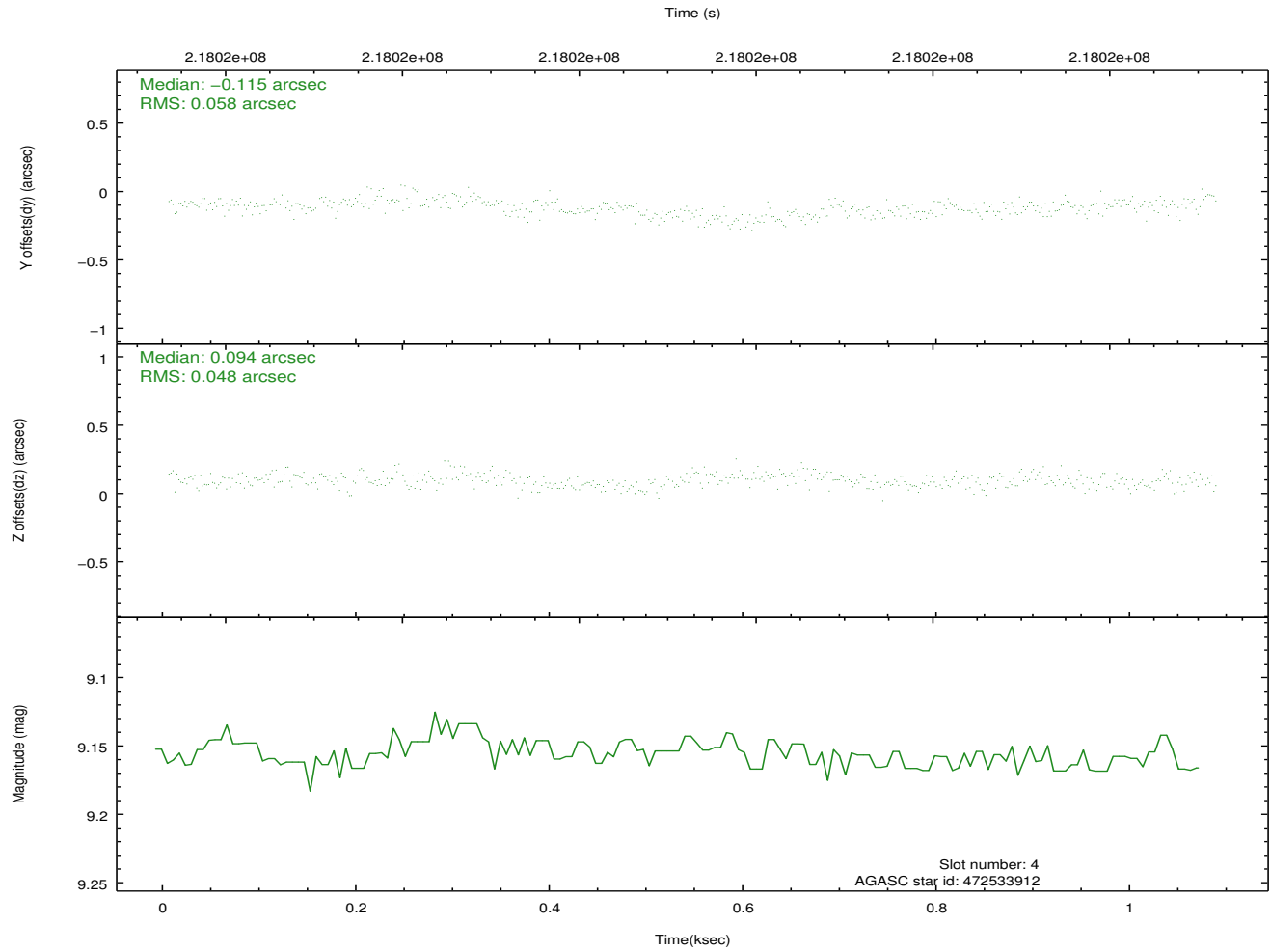
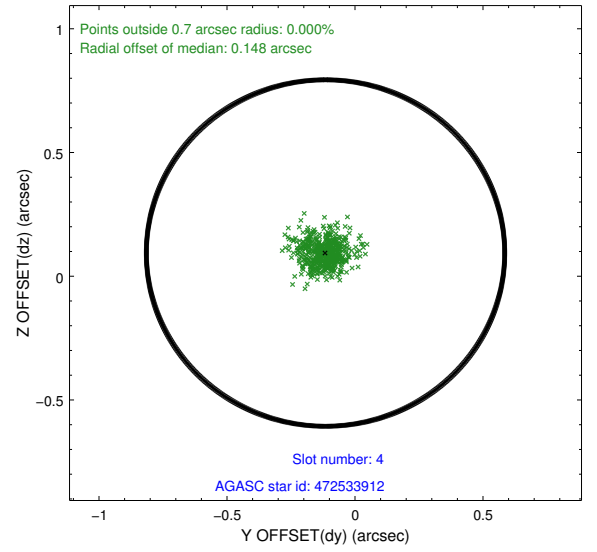
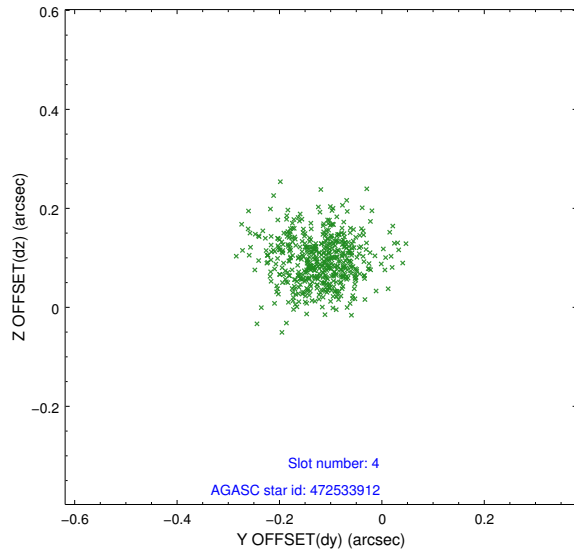
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.04 | 264 | 0.087 | -0.131 | 0.005 | 0.010 | 0.000000 | 0.000000 | -1161.51 | -457.22 |
| 1 | FID | HRC-S-2 | 7.04 | 264 | 0.115 | -0.101 | 0.008 | 0.013 | 0.000000 | 0.000000 | 1233.80 | -451.55 |
| 2 | FID | HRC-S-4 | 7.01 | 264 | 0.201 | -0.072 | 0.008 | 0.012 | 0.000000 | 0.000000 | 1241.53 | 573.22 |
| 3 | GUIDE | 472523760 | 8.25 | 526 | -0.020 | -0.141 | 0.057 | 0.098 | 331.645363 | 45.403260 | 1088.53 | -1688.43 |
| 4 | GUIDE | 472533912 | 9.16 | 529 | -0.115 | 0.094 | 0.079 | 0.139 | 331.791136 | 46.368695 | -2121.37 | -313.94 |
| 5 | GUIDE | 472655152 | 9.43 | 529 | -0.024 | 0.047 | 0.117 | 0.209 | 332.504239 | 45.862991 | 131.96 | 862.05 |
| 6 | GUIDE | 472659832 | 9.46 | 529 | -0.008 | 0.031 | 0.101 | 0.167 | 332.780399 | 46.098139 | -478.56 | 1767.58 |
| 7 | GUIDE | 472527720 | 7.02 | 528 | 0.182 | -0.008 | 0.116 | 0.189 | 331.460205 | 45.112509 | 1947.47 | -2444.48 |

2.4 Star Slots

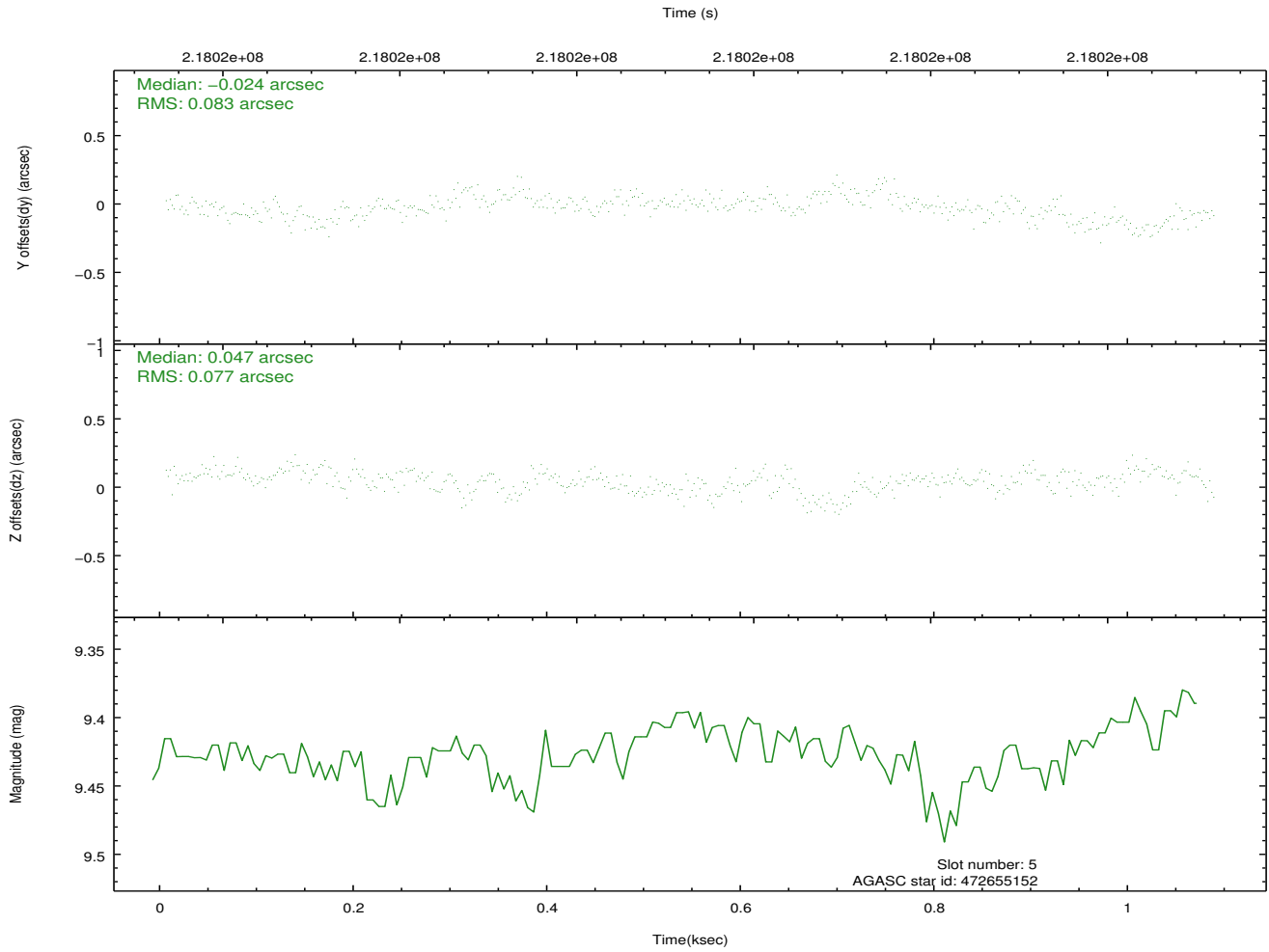
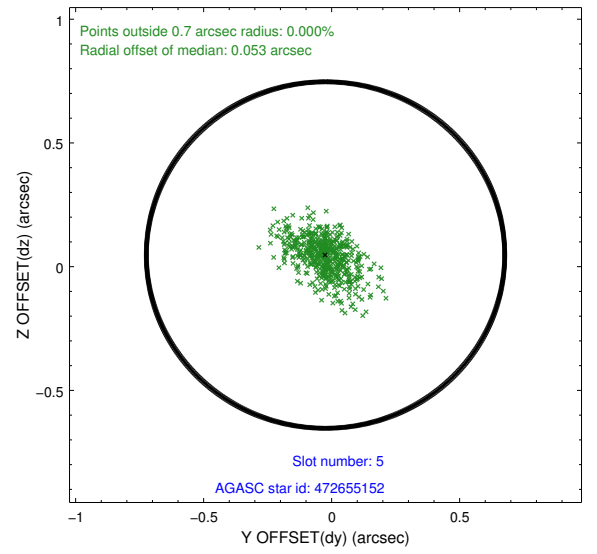
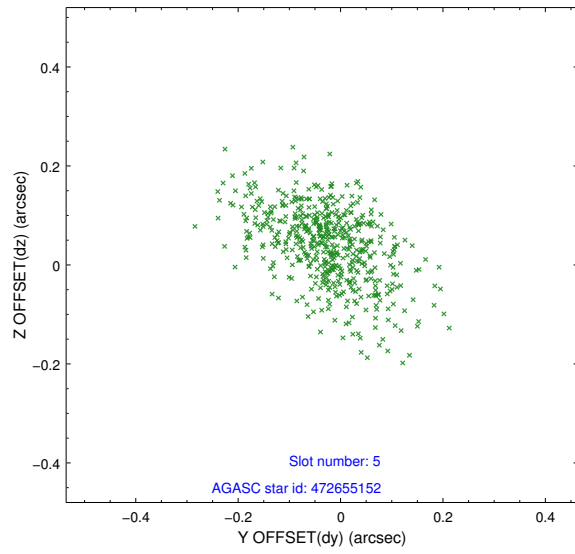
2.4.1 Slot 3



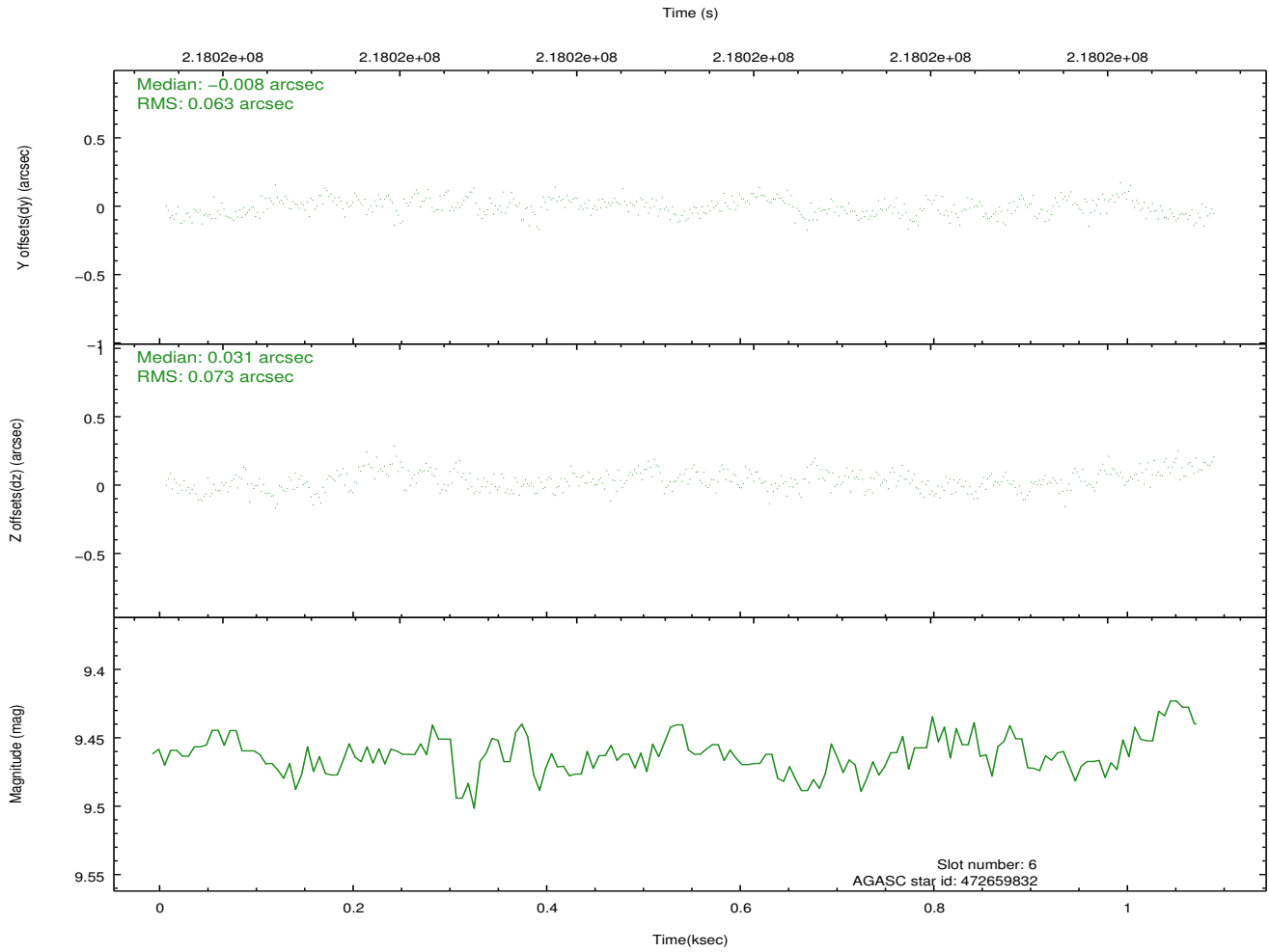
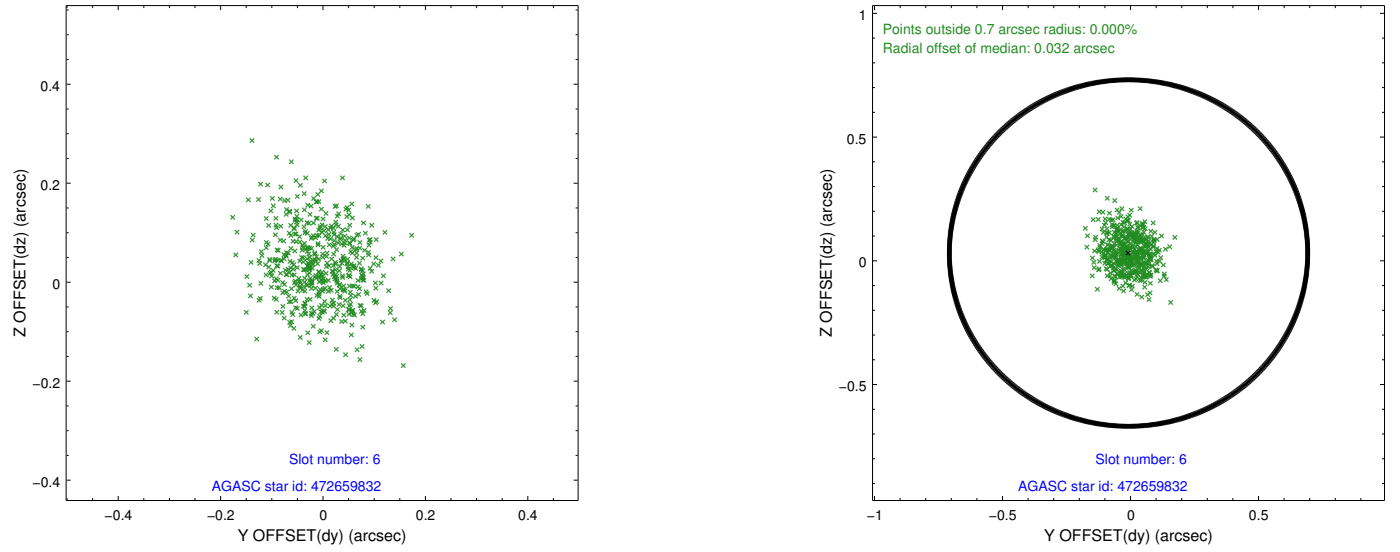
2.4.2 Slot 4



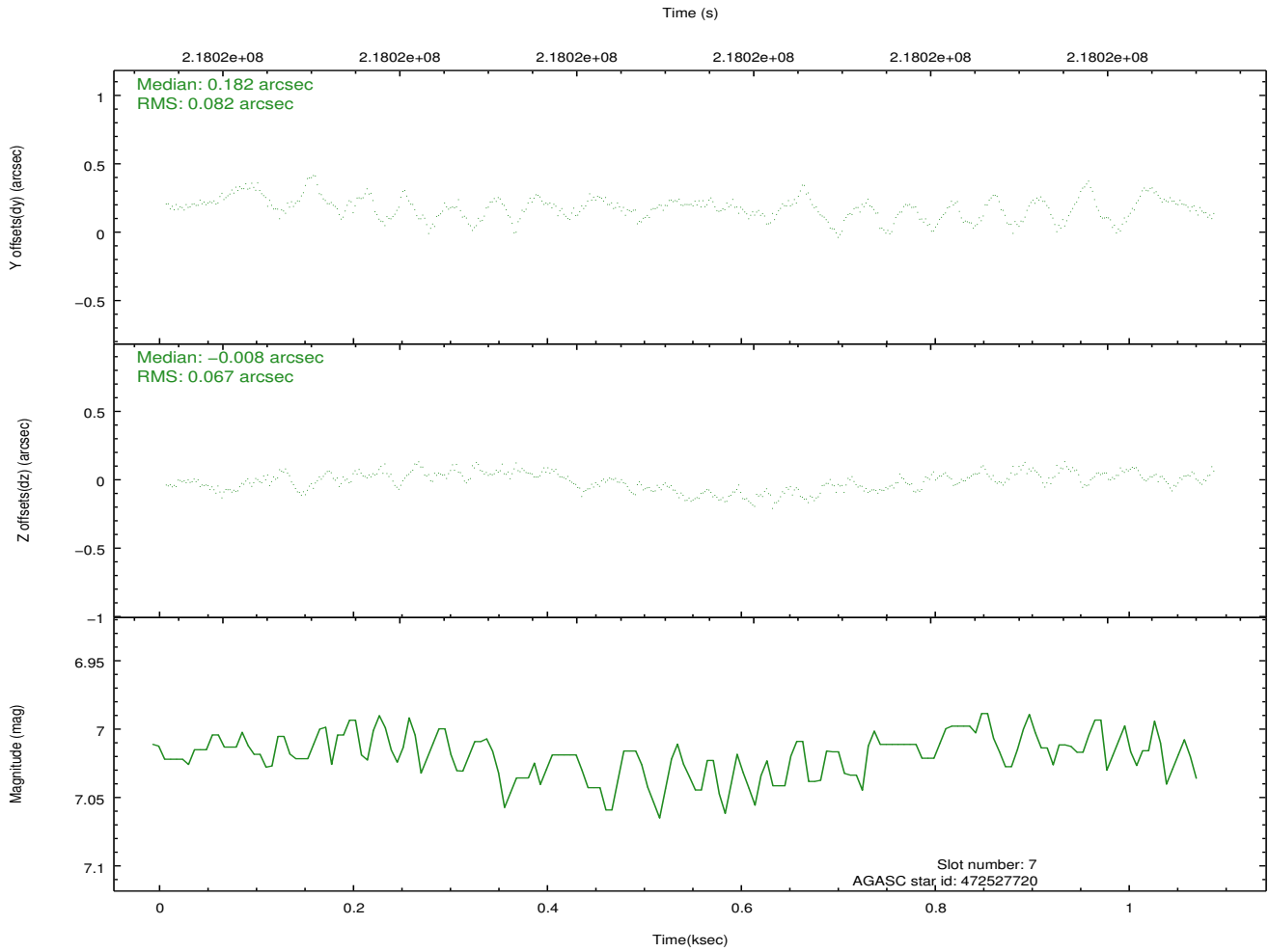
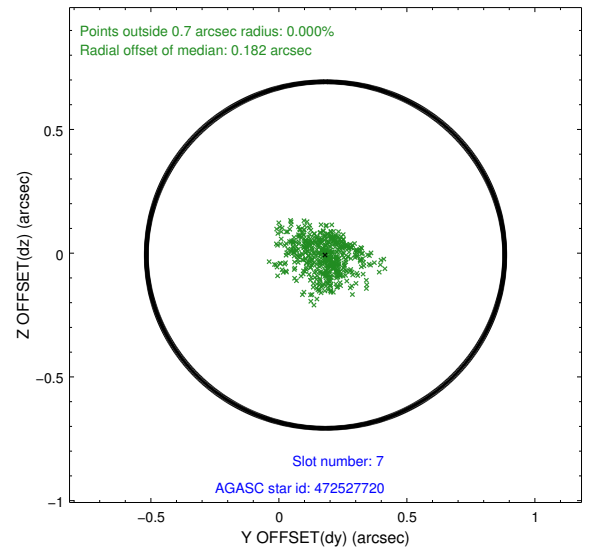
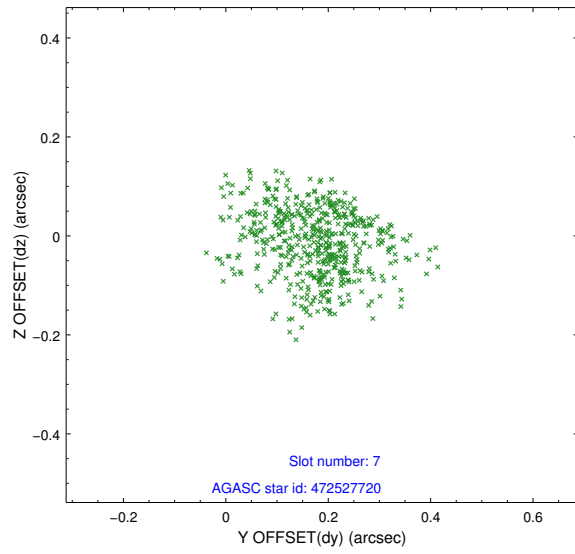
2.4.3 Slot 5



2.4.4 Slot 6

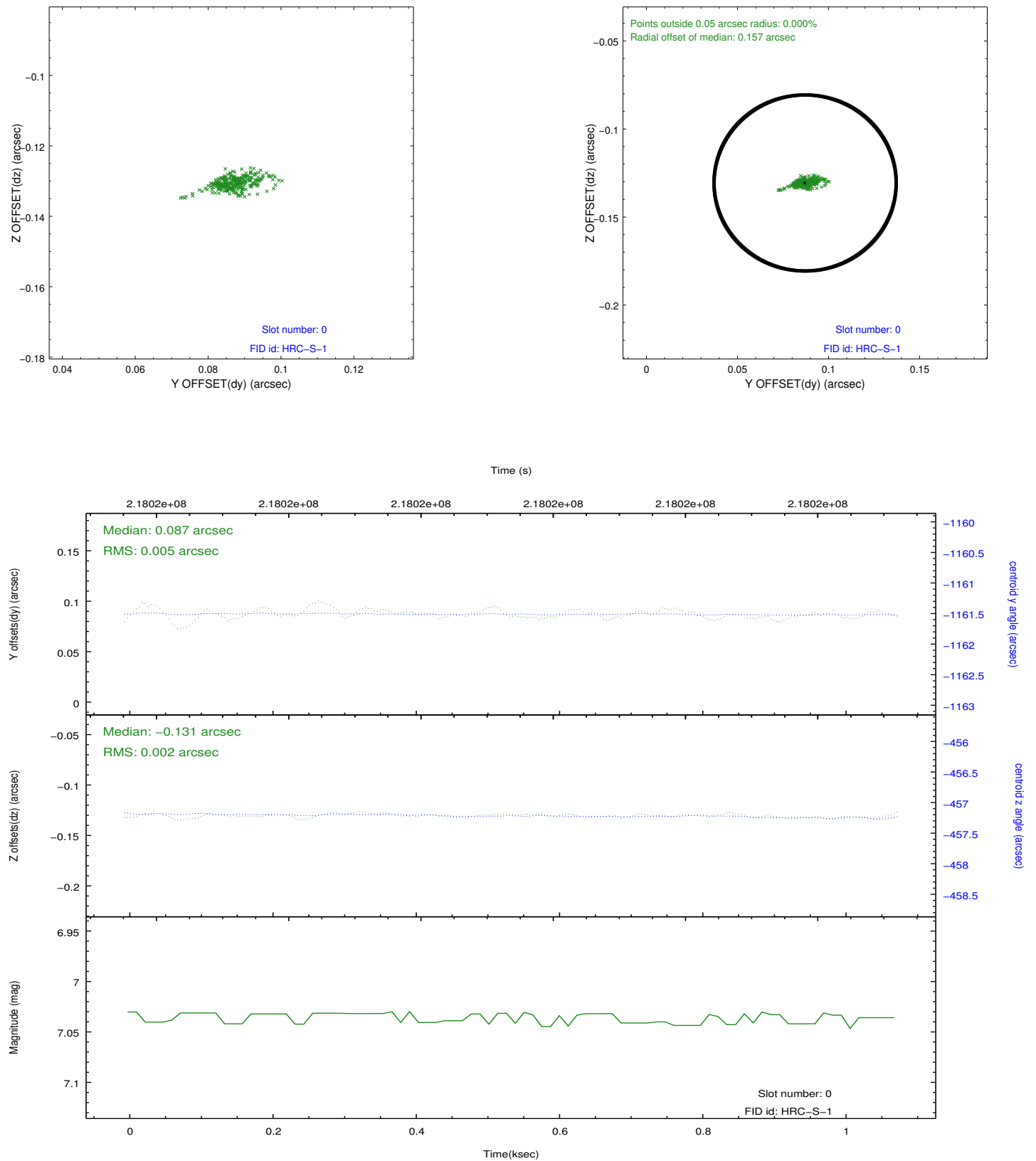


2.4.5 Slot 7

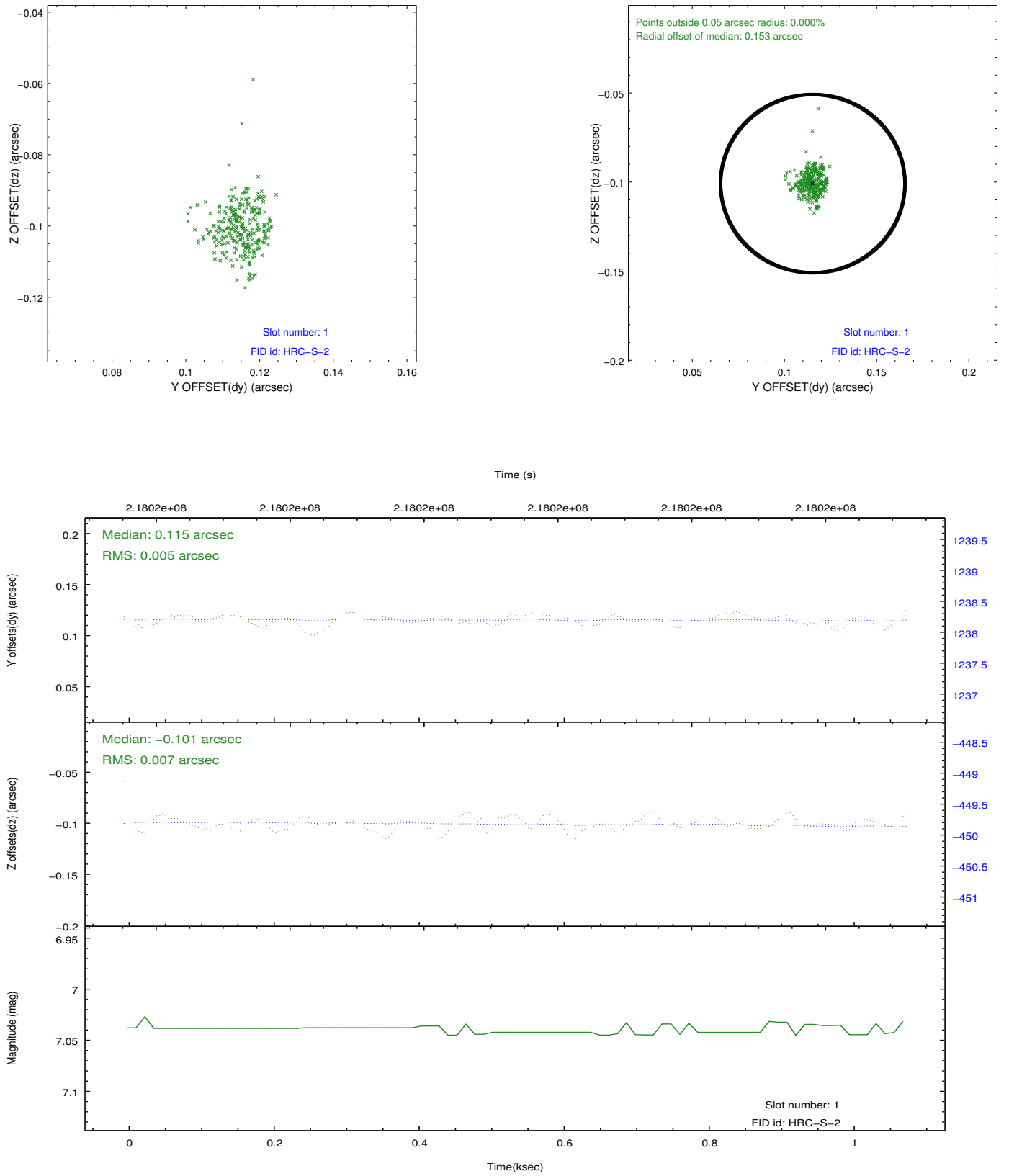


2.5 FID Slots

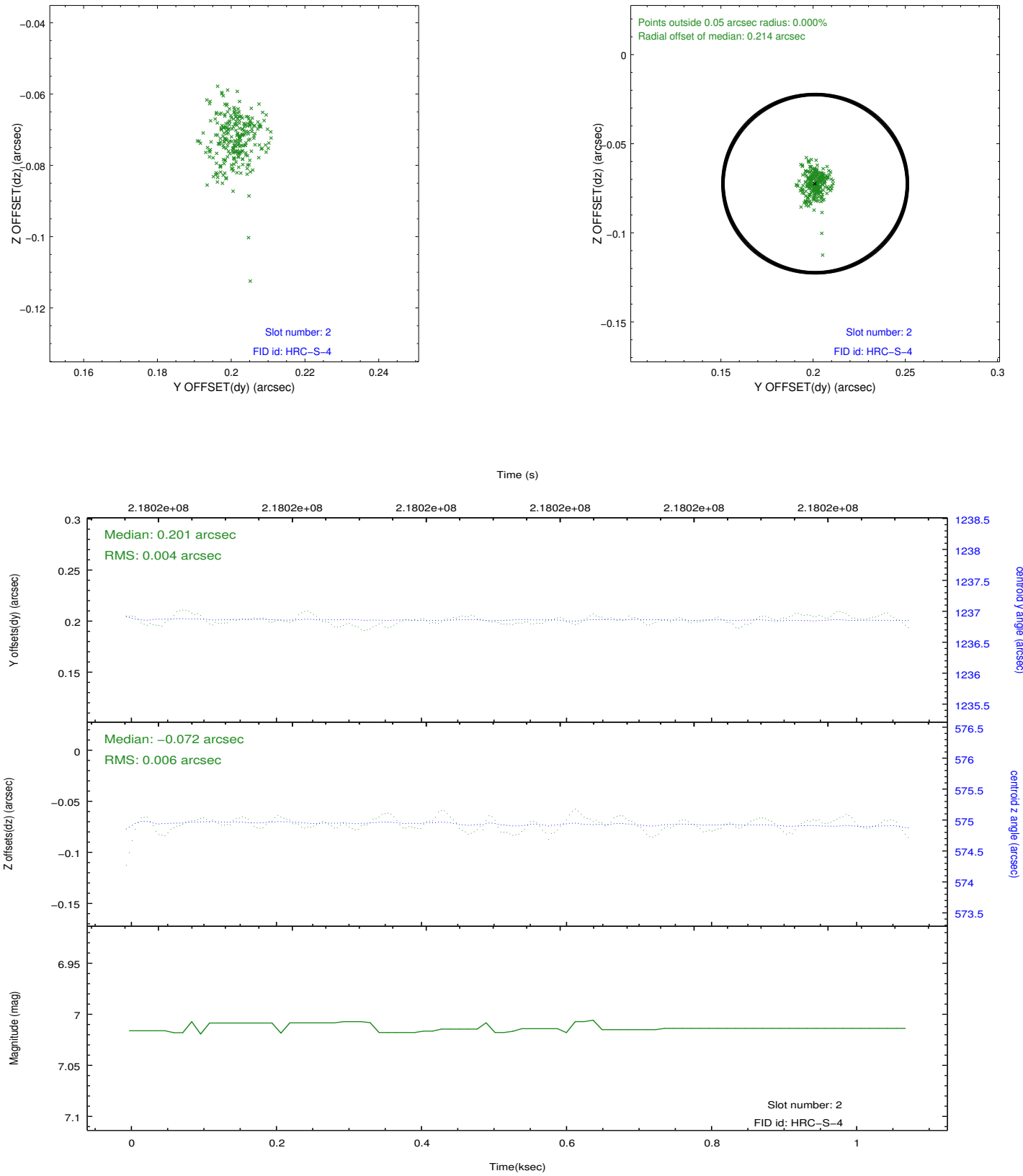
2.5.1 Slot 0



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) | 2013.01.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.052675 |

A.2 Comments