

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6479 - L2 Version 3
Chandra X-Ray Center

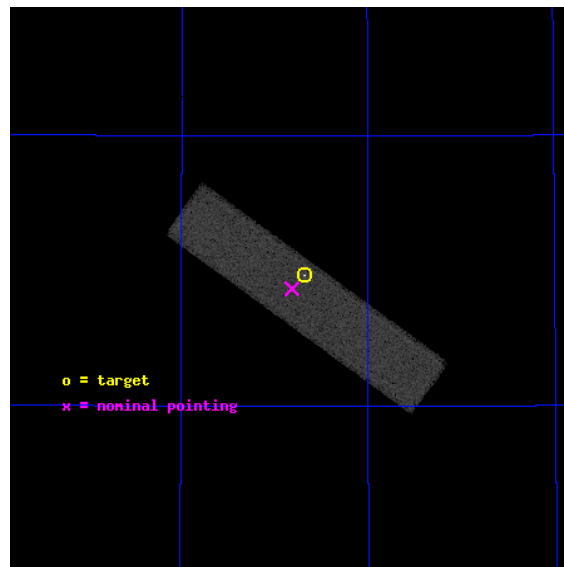
L2 Processing Date : Aug 11 2012

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1 Front

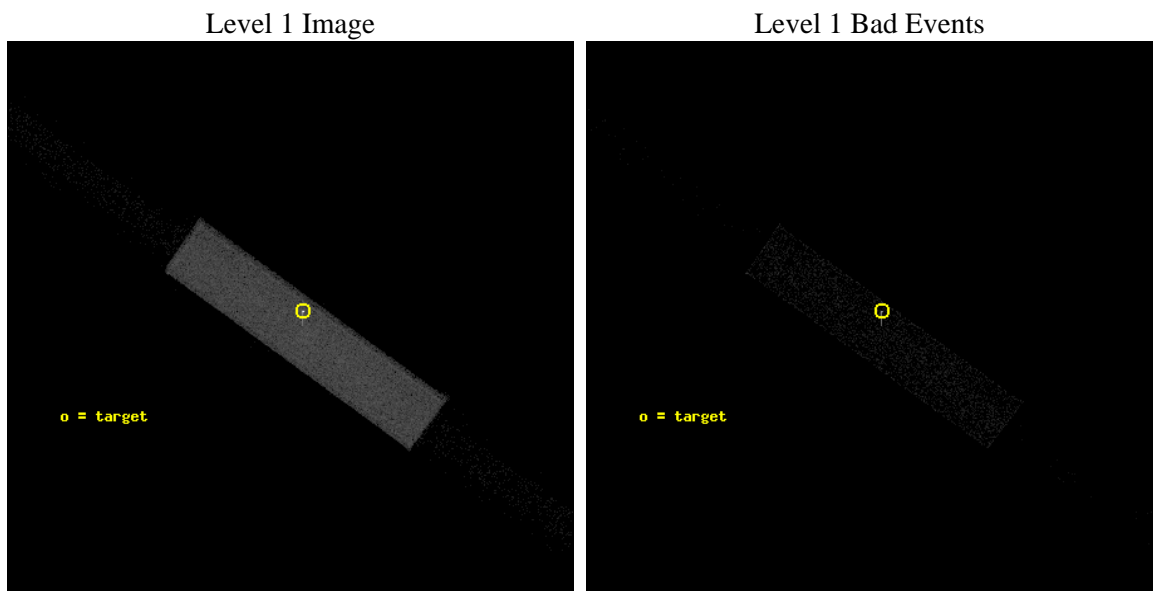
| | | |
|----------|--|---------------------------------------|
| seq_num | 290572 | Sequence number |
| obs_id | 6479 | Observation id |
| title | AO7 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.20355286297 | Nominal RA [deg] |
| dec_nom | 45.717583177348 | Nominal Dec [deg] |
| roll_nom | 35.747173938521 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1155.4313037694 | [s] |
| livetime | 1145.9365805139 | Ontime multiplied by DTCOR |
| l2events | 69147 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1155.4313037694 | [s] |
| caldbver | 4.5.1.1 | | l1events | 110160 | Number of level 1 events |
| date | 2012-08-11T02:56:32 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

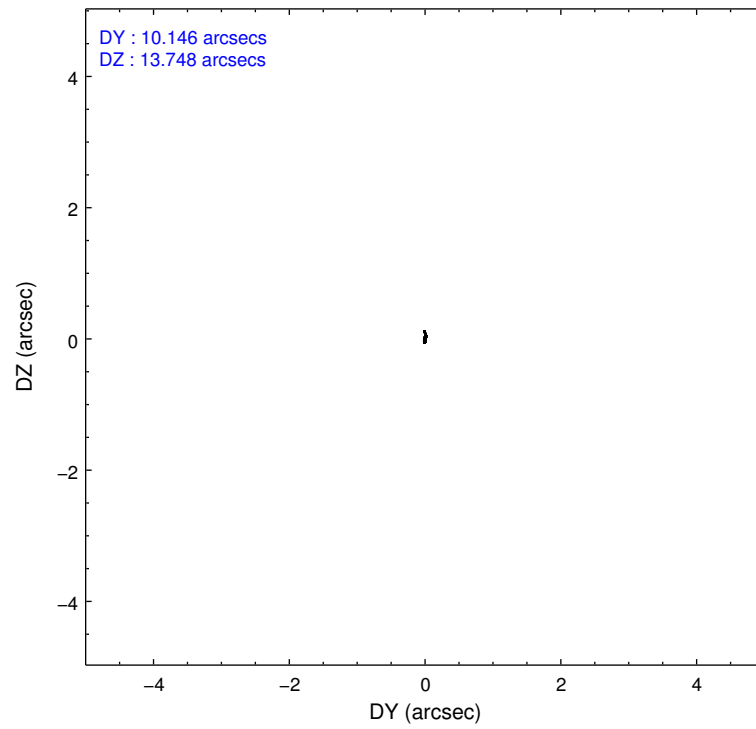
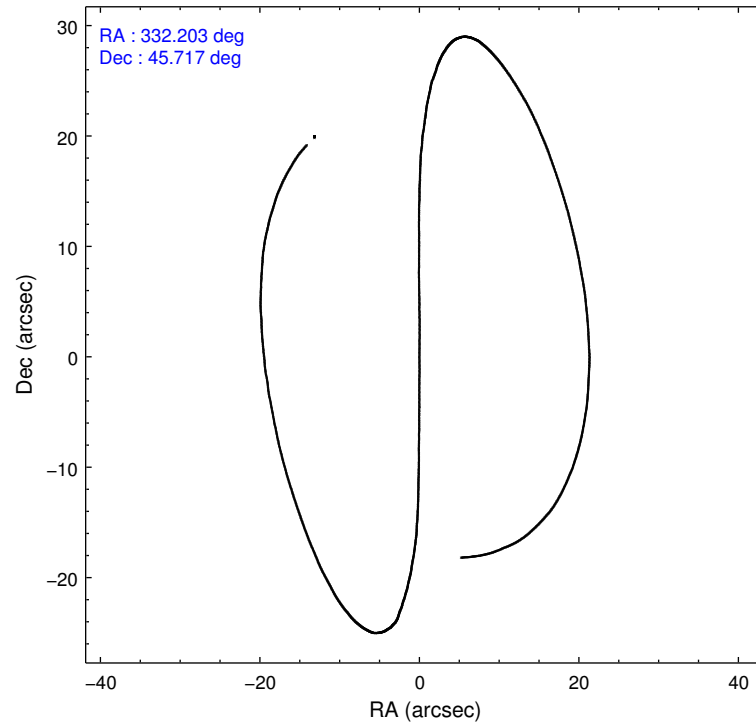
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 740 | 108612 | 808 |
| rejected events | 740 | 26451 | 808 |
| rejected % | 100% | 24% | 100% |

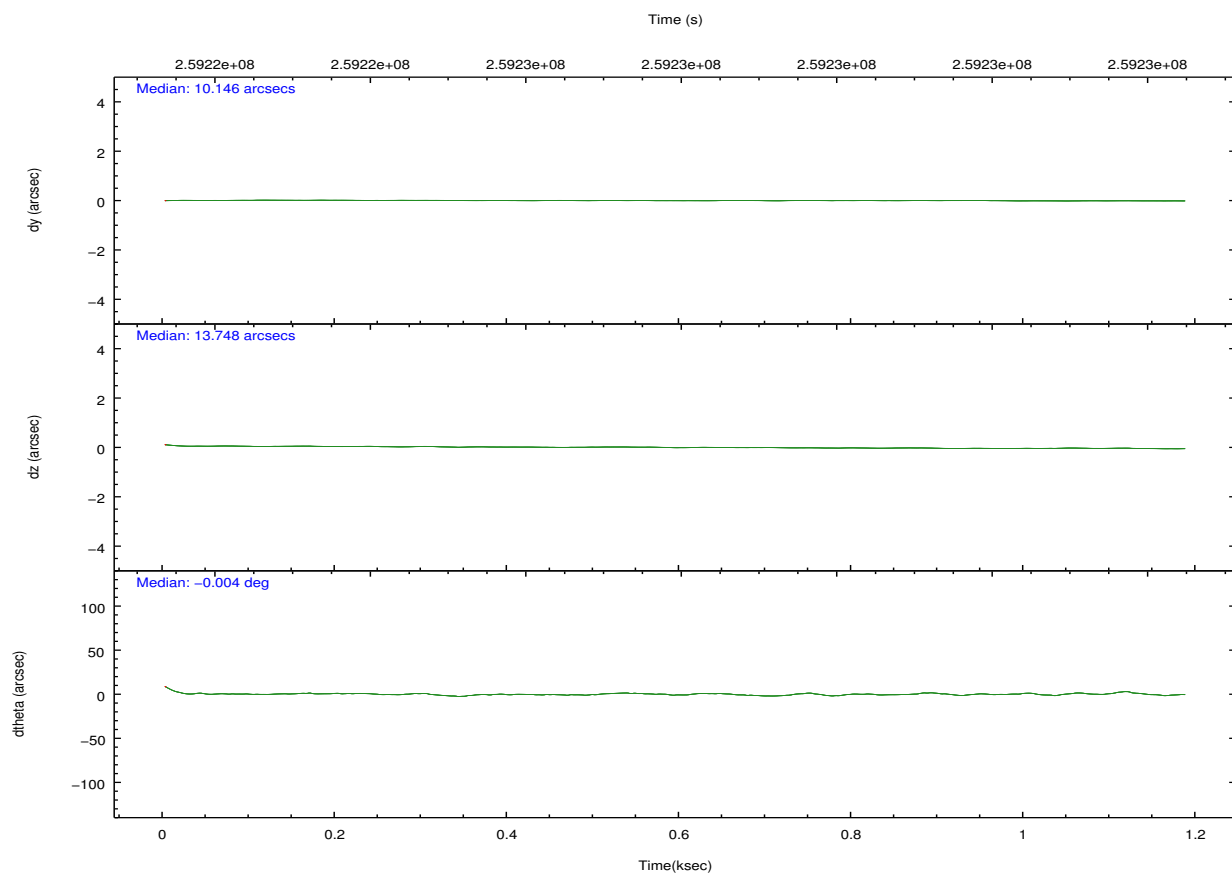
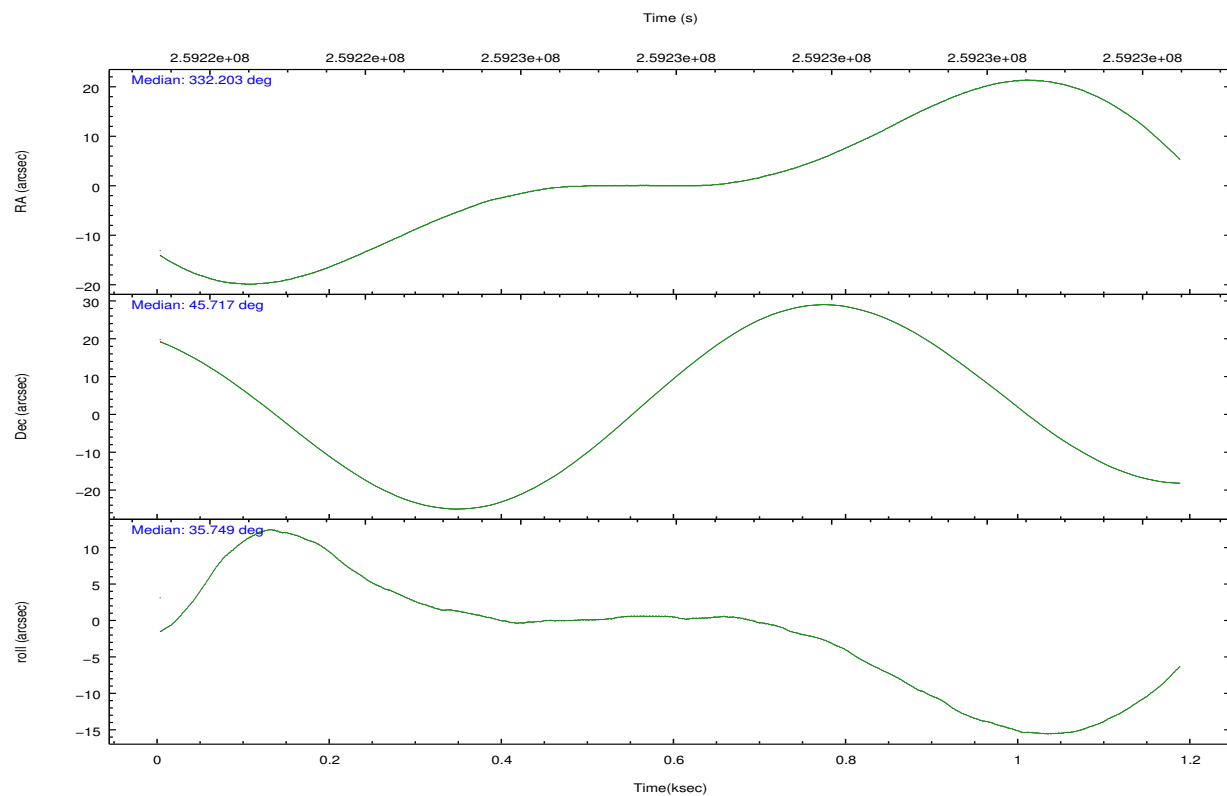
2.2 Compared Parameters

| 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 | 332.188463 | 332.2035528629663 |
| [deg] Pointing Dec | 45.691236 | 45.71758317734839 |
| [deg] Pointing Roll | 35.690689 | 35.74717393852127 |
| [mm] SIM focus pos | -1.533336 | -1.526339935833849 |
| [mm] SIM defocus | 7.710433287538843e-07 | 0.006996703570447904 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 259224989.184000 | 259224613.60493 |
| Observation start date | 2006-03-20T06:55:24 | 2006-03-20T06:50:13 |
| [s] Observation end time (MET) | 259225989.184000 | 259226123.43 |
| Observation end date | 2006-03-20T07:12:04 | 2006-03-20T07:15:23 |

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

2.3 Aspect



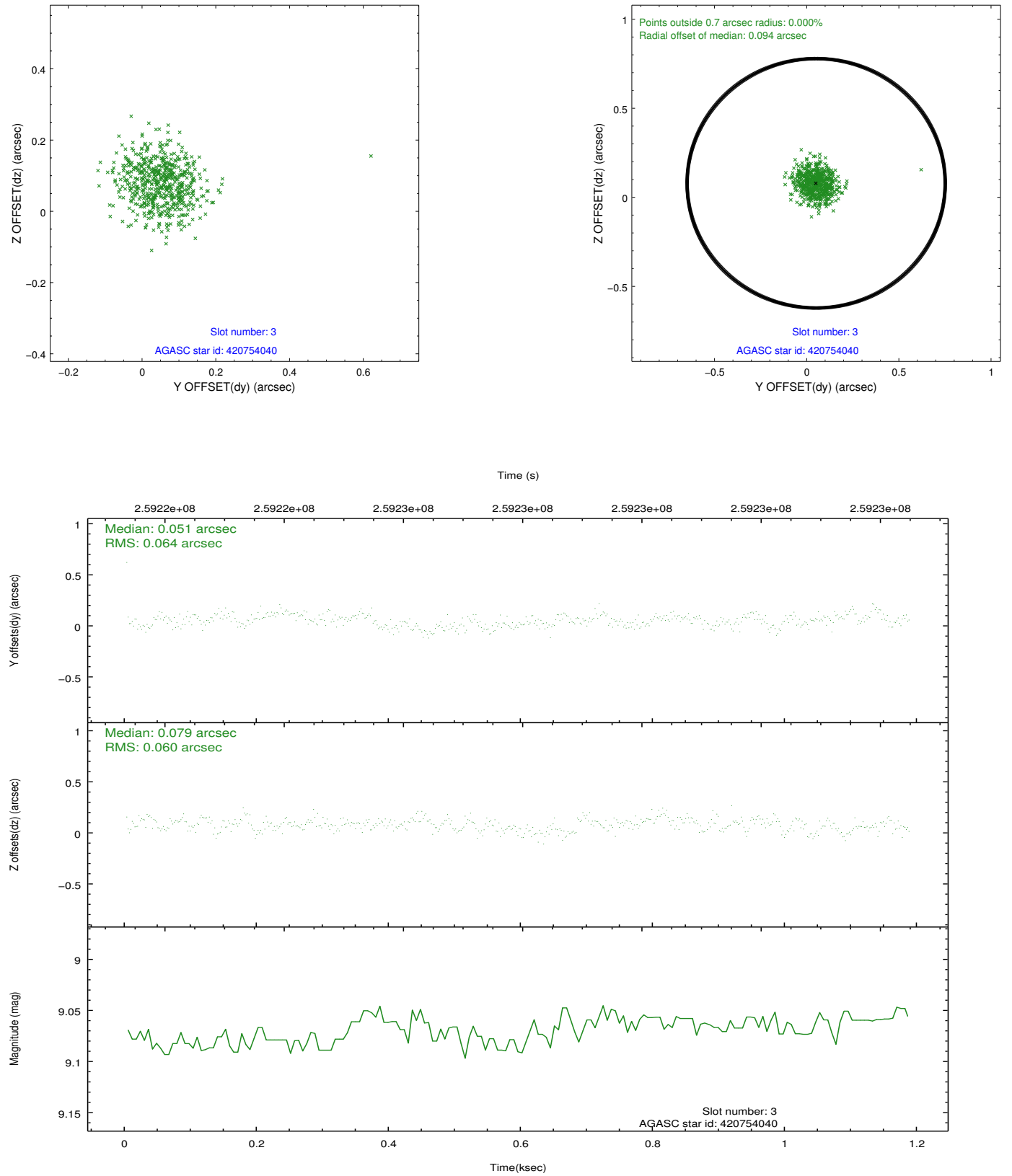


Slot Statistics

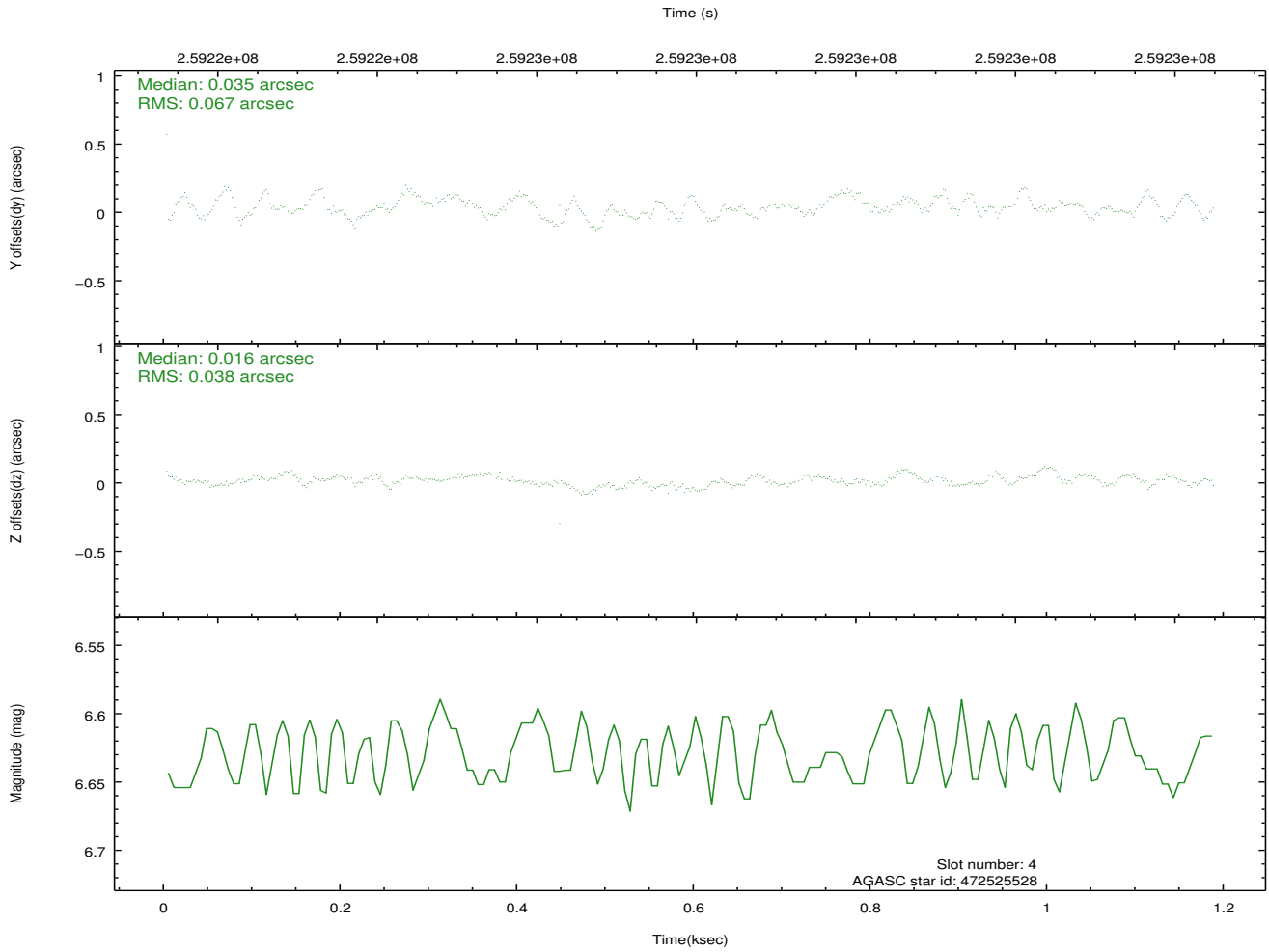
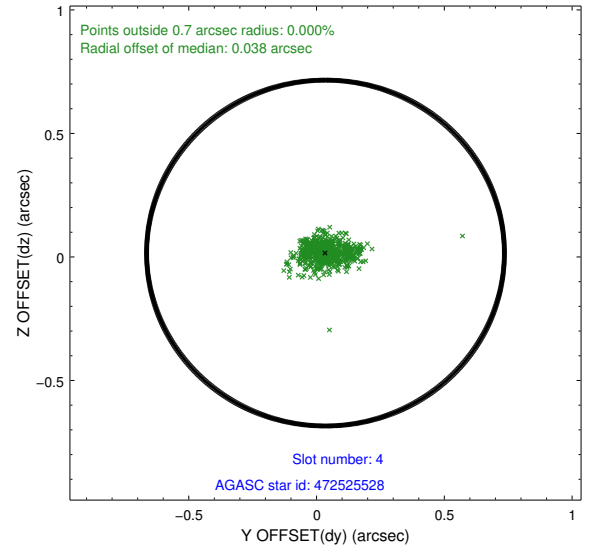
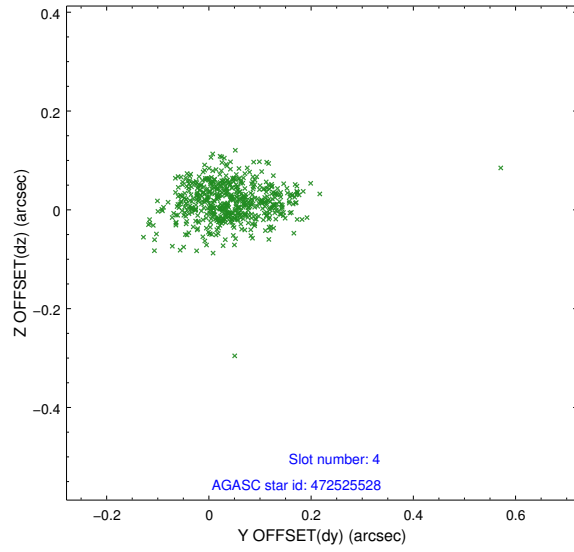
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.06 | 290 | 0.098 | -0.195 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1164.38 | -462.60 |
| 1 | FID | HRC-S-3 | 7.06 | 290 | 0.109 | -0.015 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1171.12 | 565.50 |
| 2 | FID | HRC-S-4 | 7.02 | 290 | 0.180 | -0.086 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1229.88 | 571.58 |
| 3 | GUIDE | 420754040 | 9.07 | 578 | 0.051 | 0.079 | 0.090 | 0.148 | 331.917939 | 44.882543 | -2257.04 | -1959.87 |
| 4 | GUIDE | 472525528 | 6.63 | 579 | 0.035 | 0.016 | 0.079 | 0.134 | 331.551102 | 45.248694 | -2241.04 | -348.37 |
| 5 | GUIDE | 472655152 | 9.42 | 578 | 0.147 | -0.107 | 0.119 | 0.190 | 332.504239 | 45.862991 | 1001.43 | 42.03 |
| 6 | GUIDE | 472665256 | 9.02 | 579 | -0.251 | 0.074 | 0.086 | 0.149 | 332.808125 | 46.195041 | 2317.80 | 578.38 |
| 7 | GUIDE | 472659832 | 9.48 | 575 | 0.022 | -0.042 | 0.100 | 0.164 | 332.780399 | 46.098139 | 2062.51 | 334.21 |

2.4 Star Slots

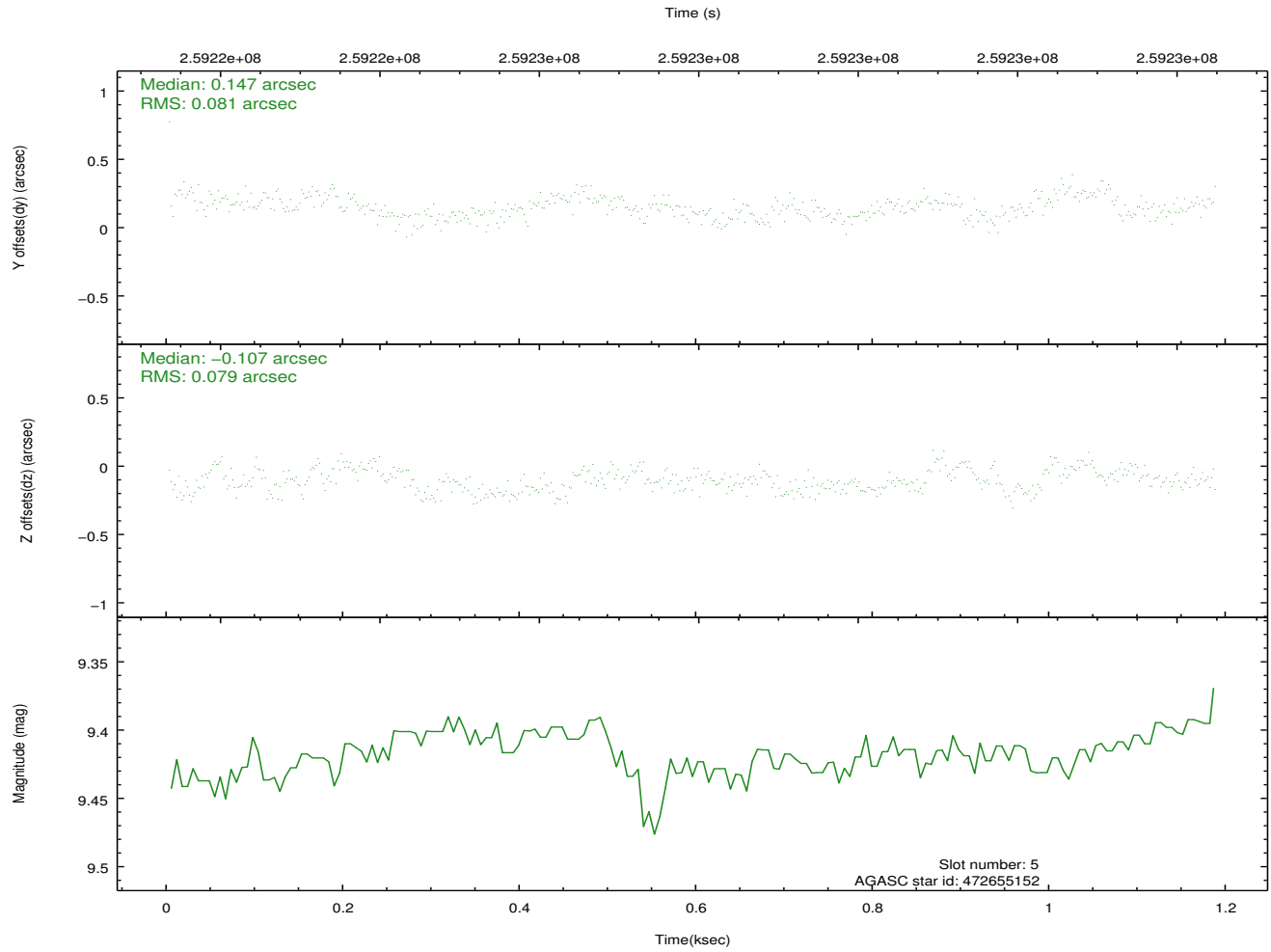
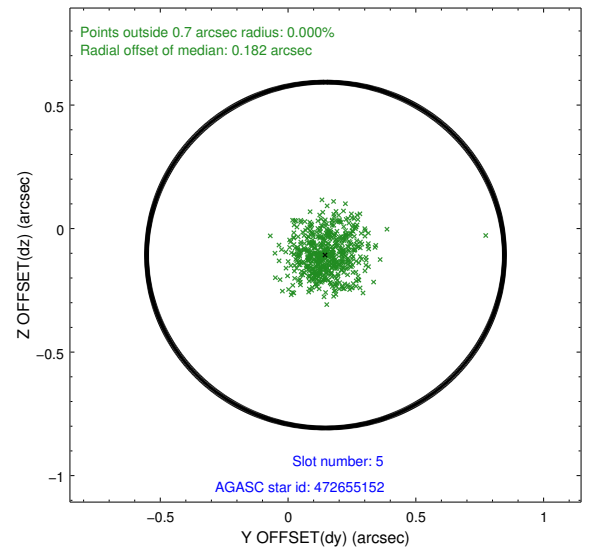
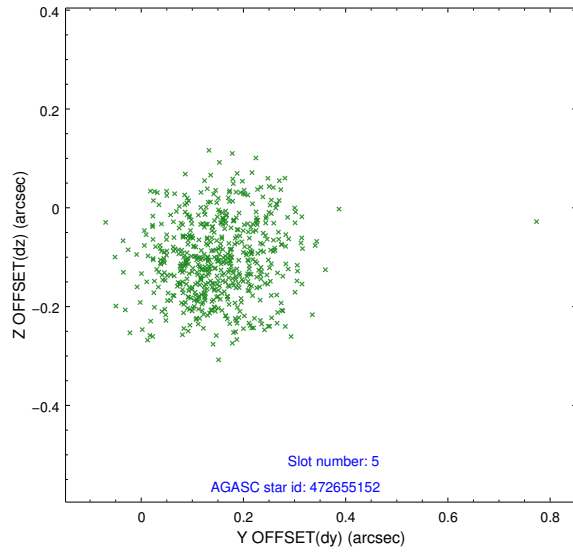
2.4.1 Slot 3



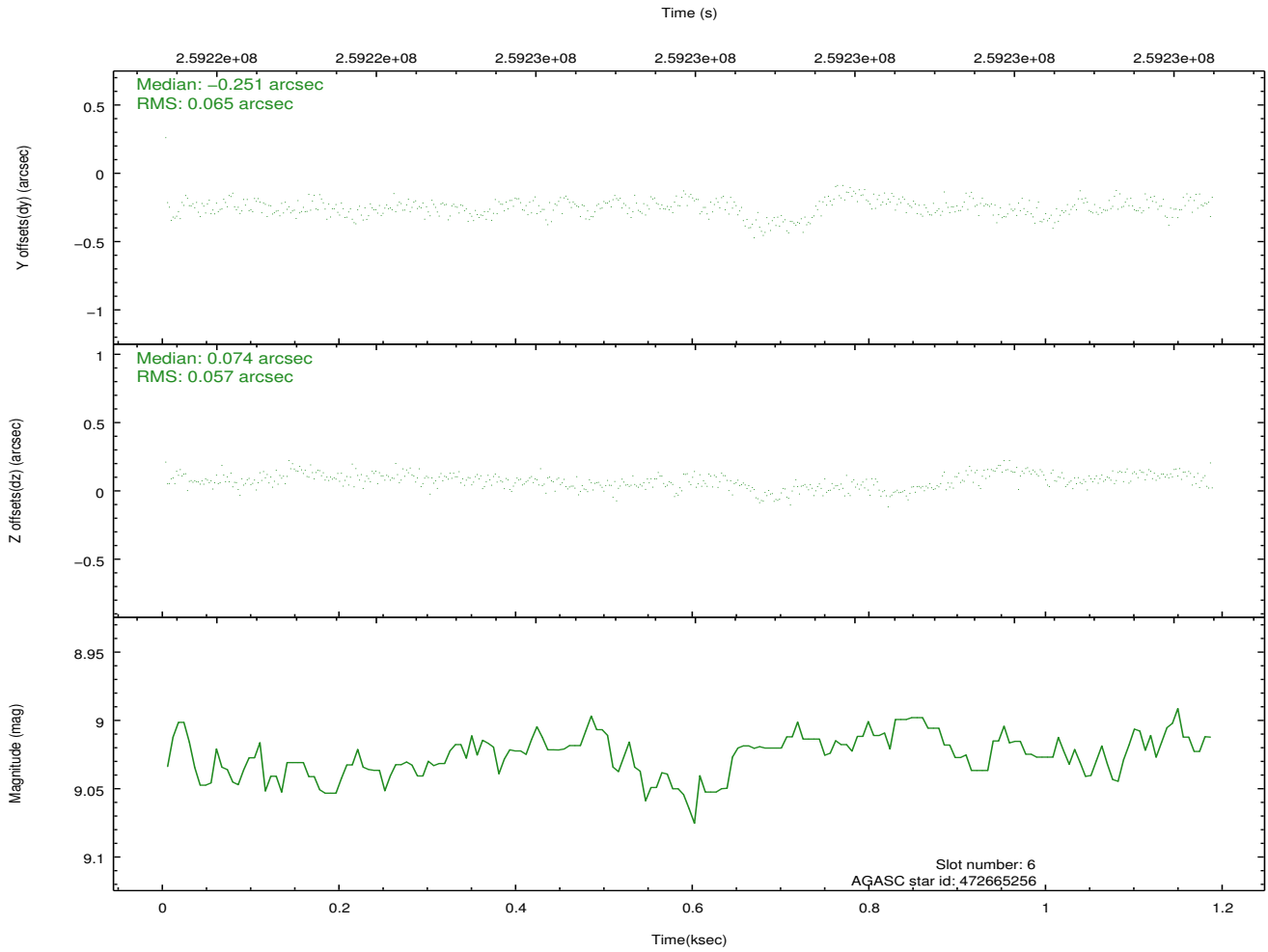
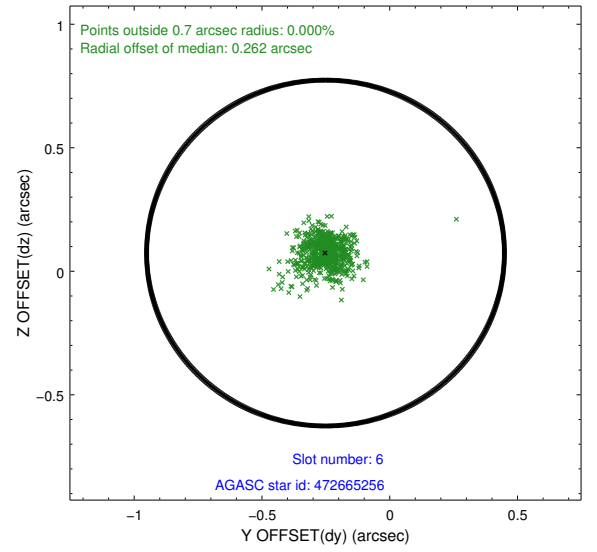
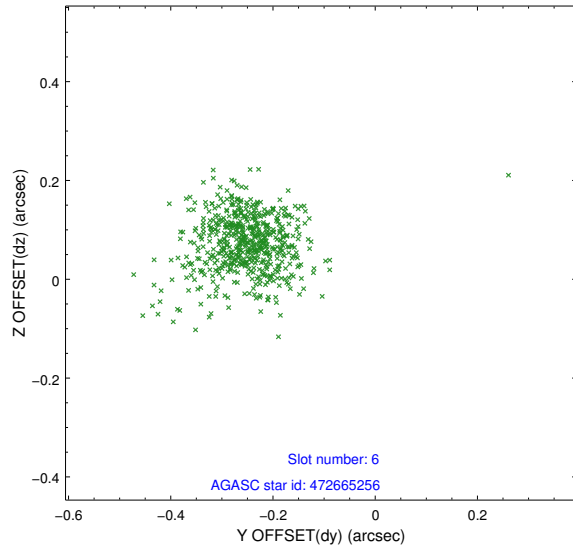
2.4.2 Slot 4



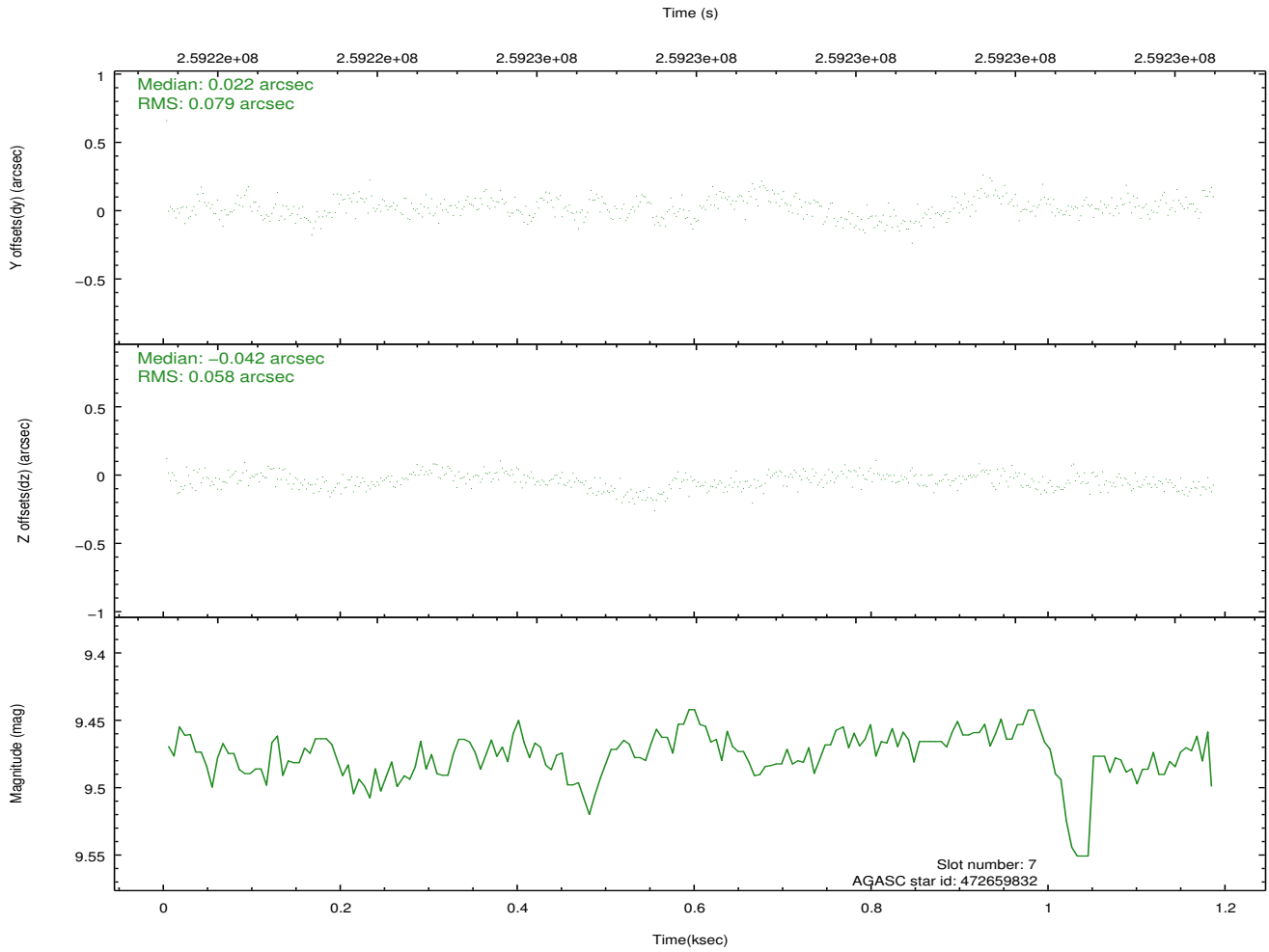
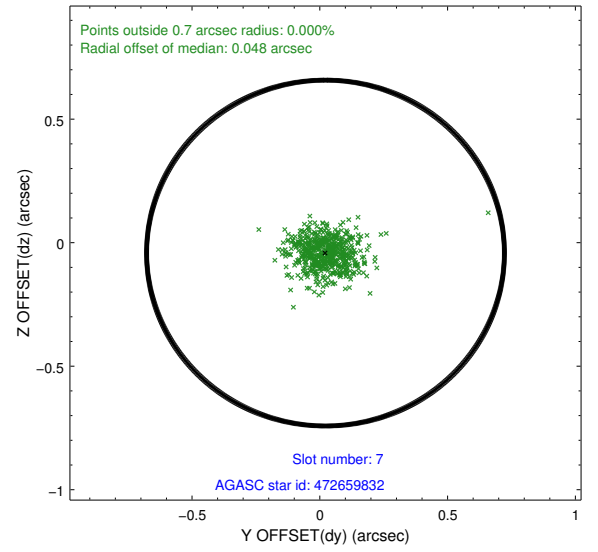
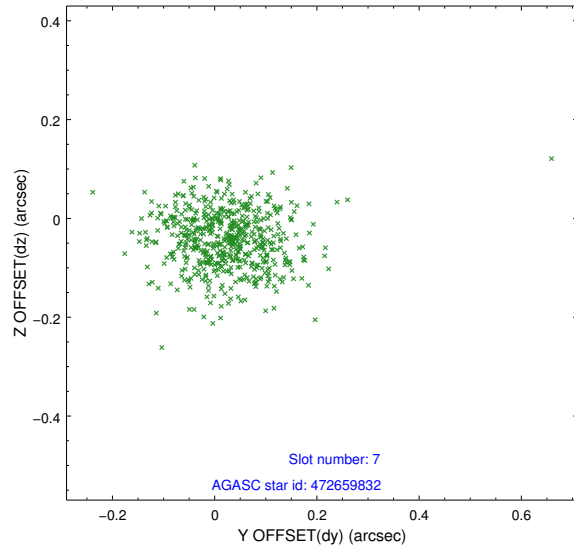
2.4.3 Slot 5



2.4.4 Slot 6

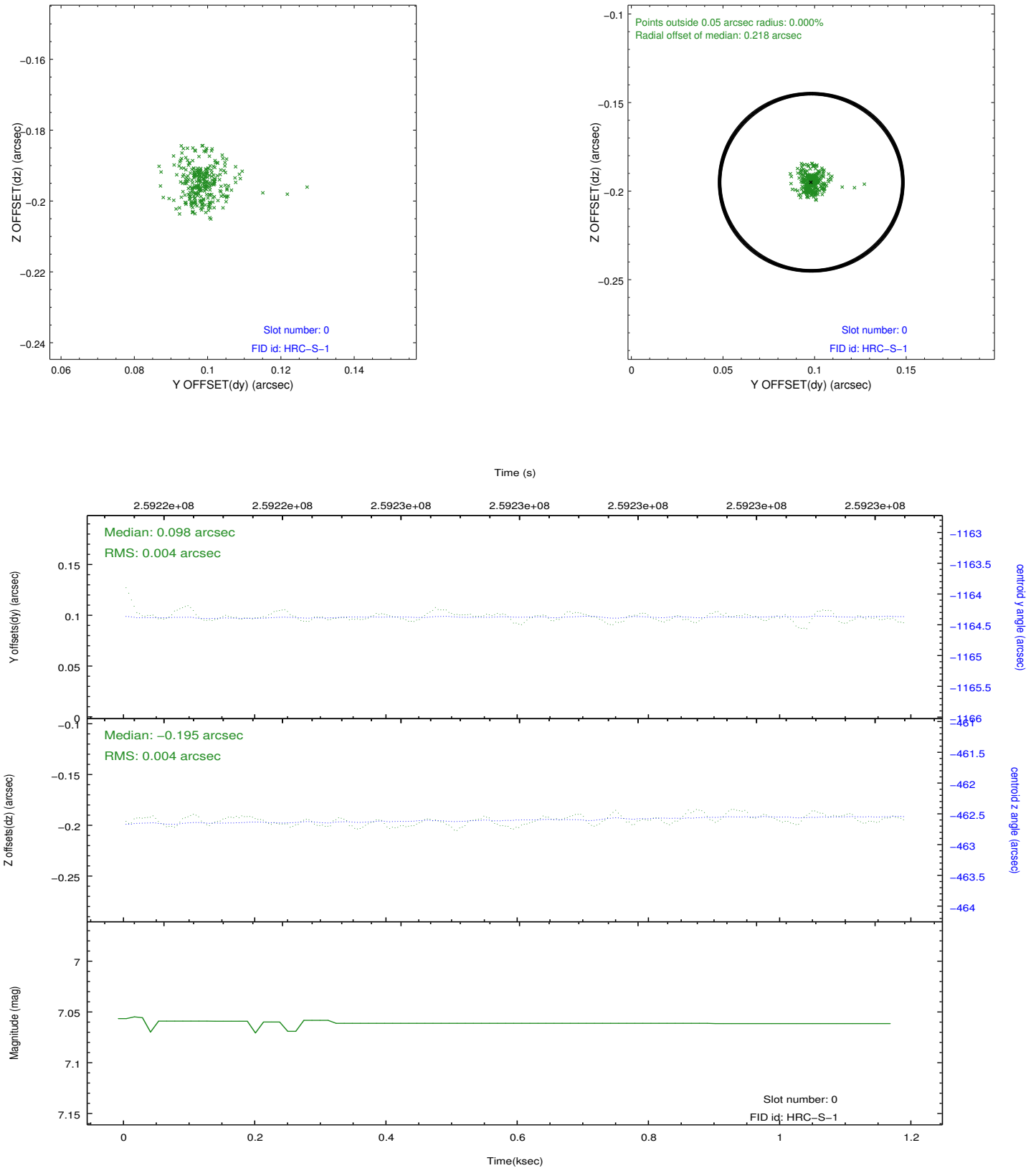


2.4.5 Slot 7

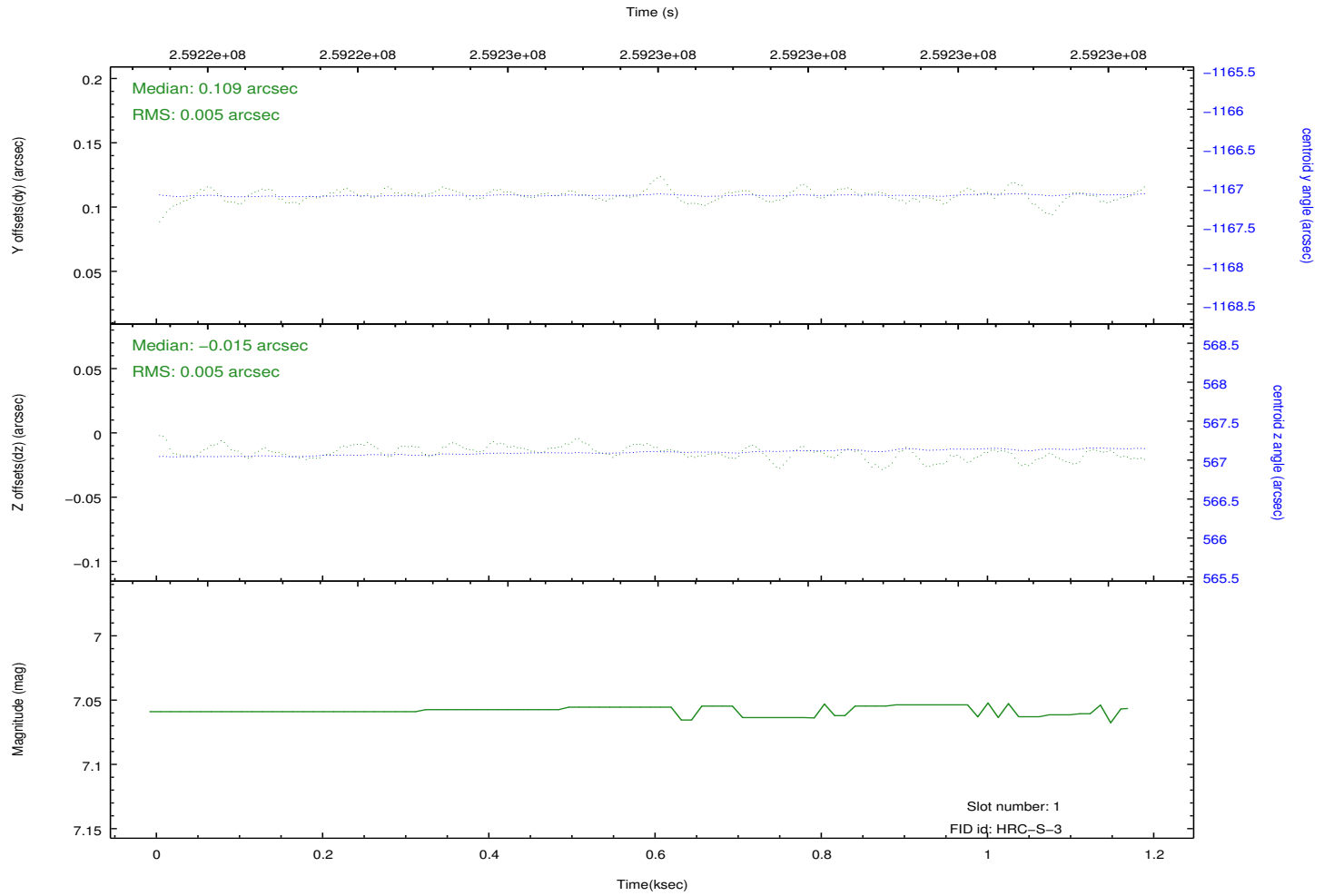
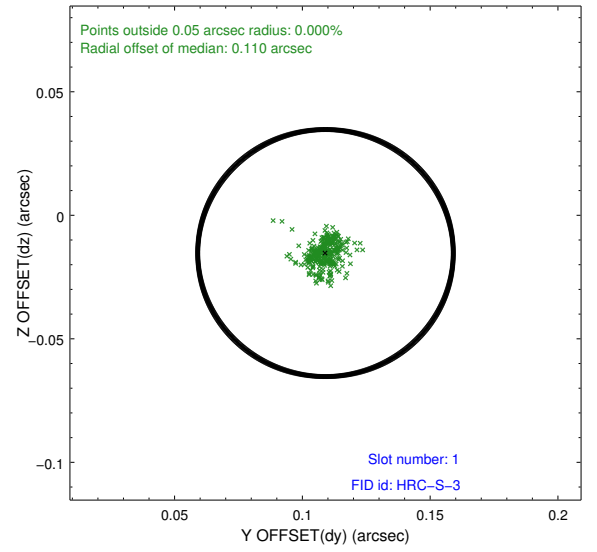
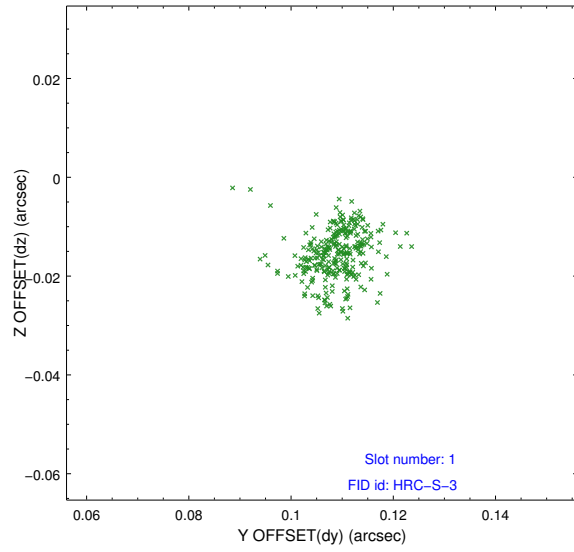


2.5 FID Slots

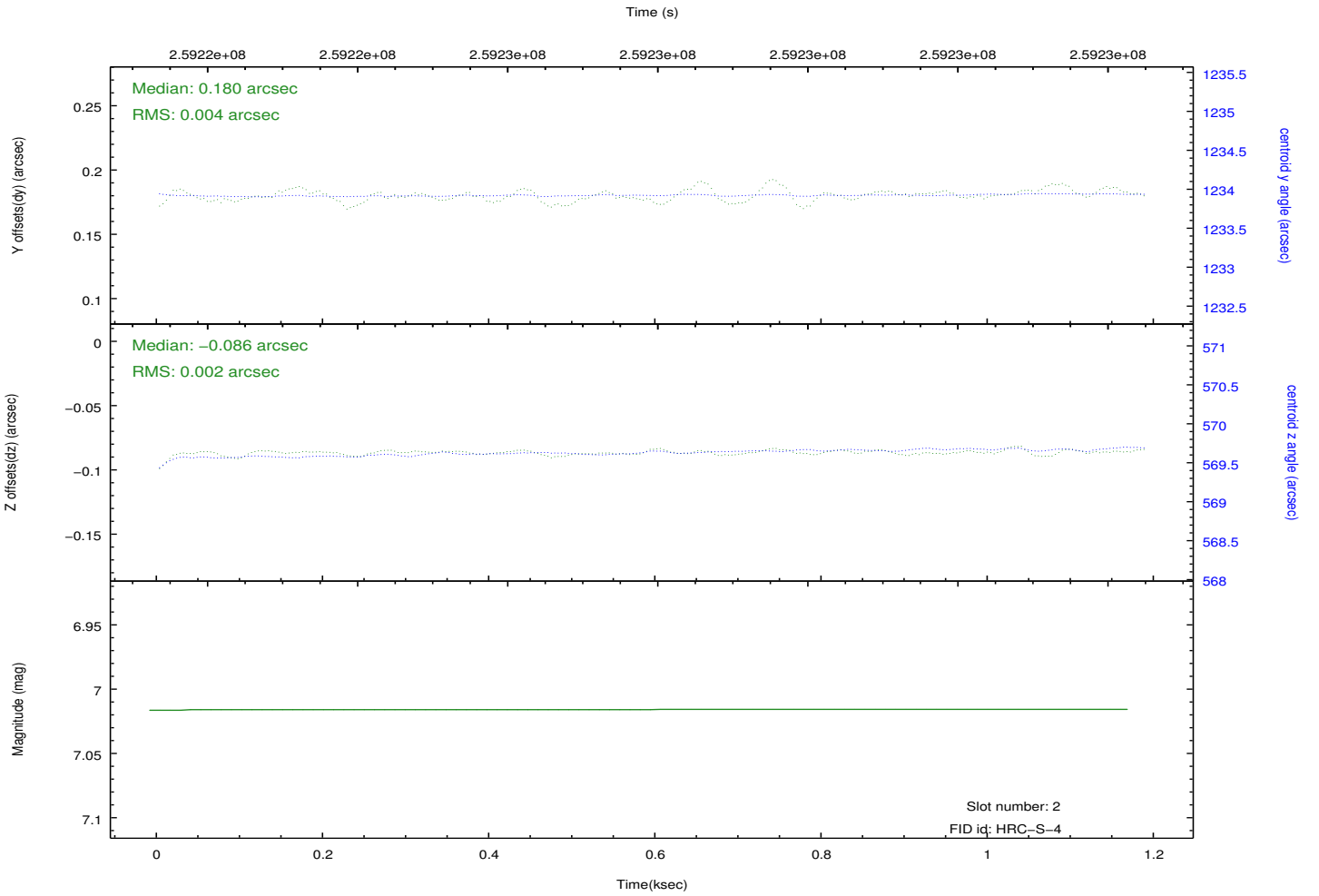
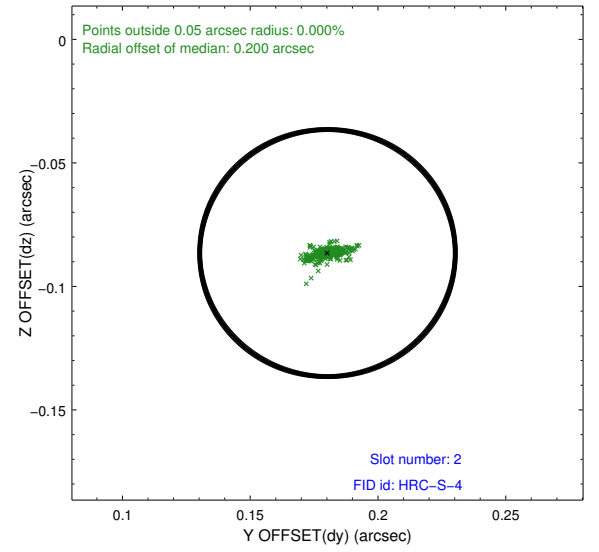
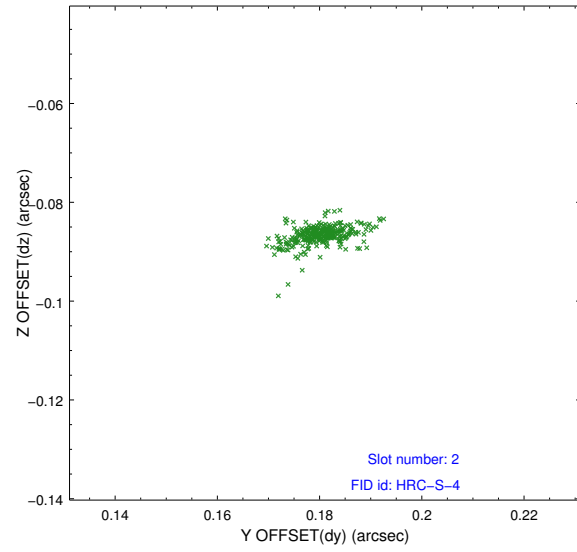
2.5.1 Slot 0



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) | 2012.08.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1554313 |

A.2 Comments