

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8352 - L2 Version 5
Chandra X-Ray Center

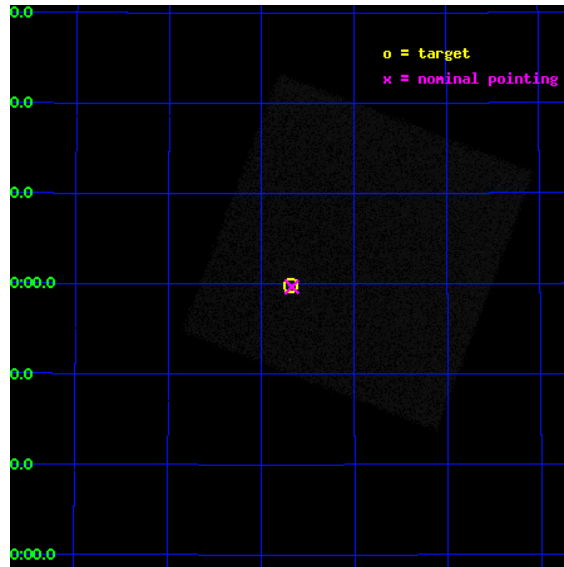
L2 Processing Date : Aug 11 2012

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1 Front

| | | |
|----------|--|---------------------------------------|
| seq_num | 290731 | Sequence number |
| obs_id | 8352 | Observation id |
| title | Improving the De-Gap Corrections for the HRC-I | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | Capella | Source name |
| ra_targ | 79.1725 | Observer's specified target RA [deg] |
| dec_targ | 45.998 | Observer's specified target Dec [deg] |
| ra_nom | 79.167793155798 | Nominal RA [deg] |
| dec_nom | 45.994896407756 | Nominal Dec [deg] |
| roll_nom | 245.84316150447 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 5183.6814956069 | [s] |
| livetime | 5129.4931854892 | Ontime multiplied by DTCOR |
| l2events | 368360 | Number of level 2 events |

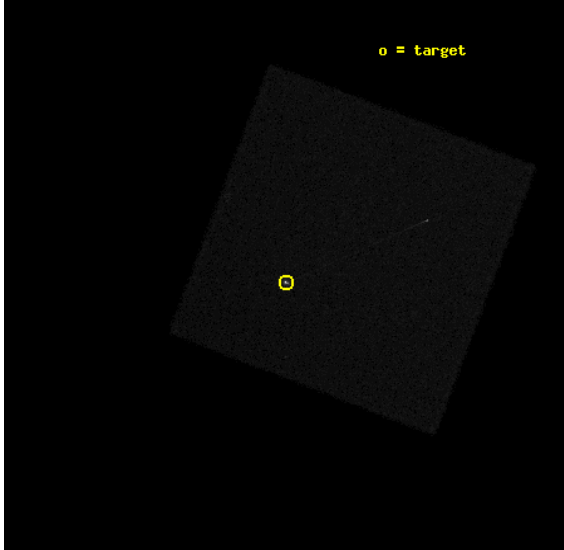


2 OBI

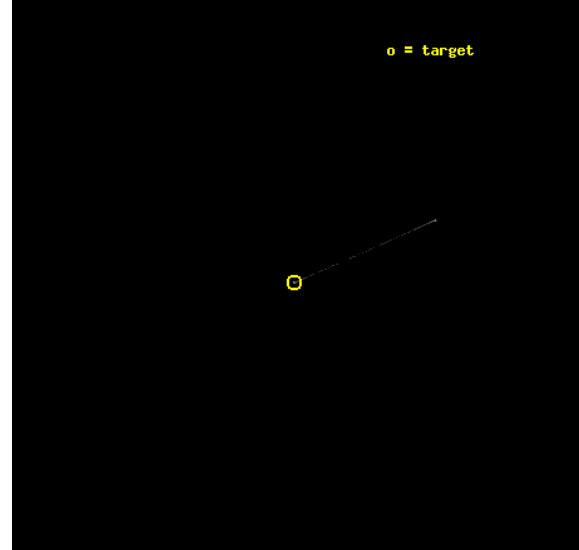
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 5183.6814956069 | [s] |
| caldbver | 4.5.1.1 | | l1events | 529975 | Number of level 1 events |
| date | 2012-08-11T16:51:28 | Date and time of file creation | | | |
| revision | 5 | Processing version of data | | | |

2.1.3 Events

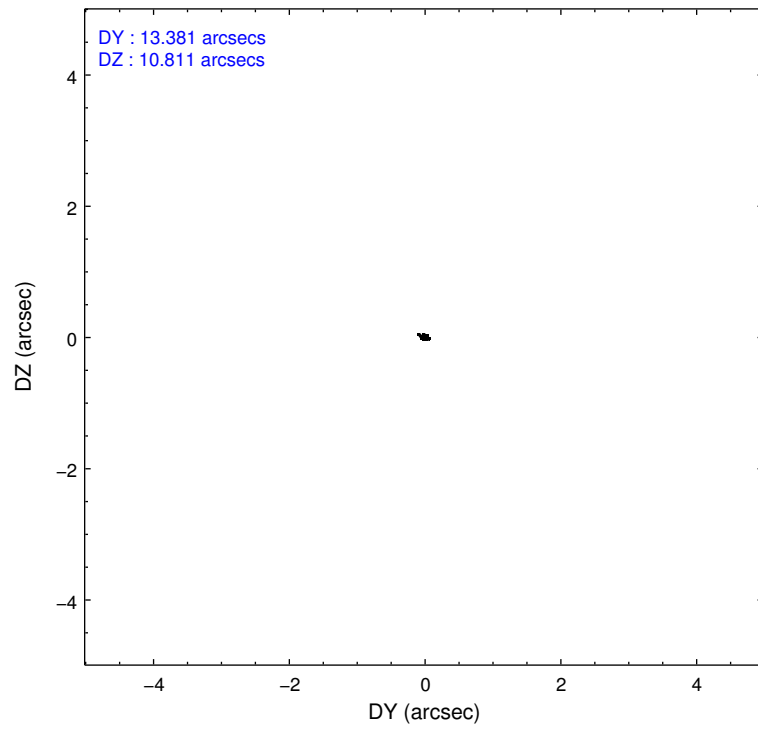
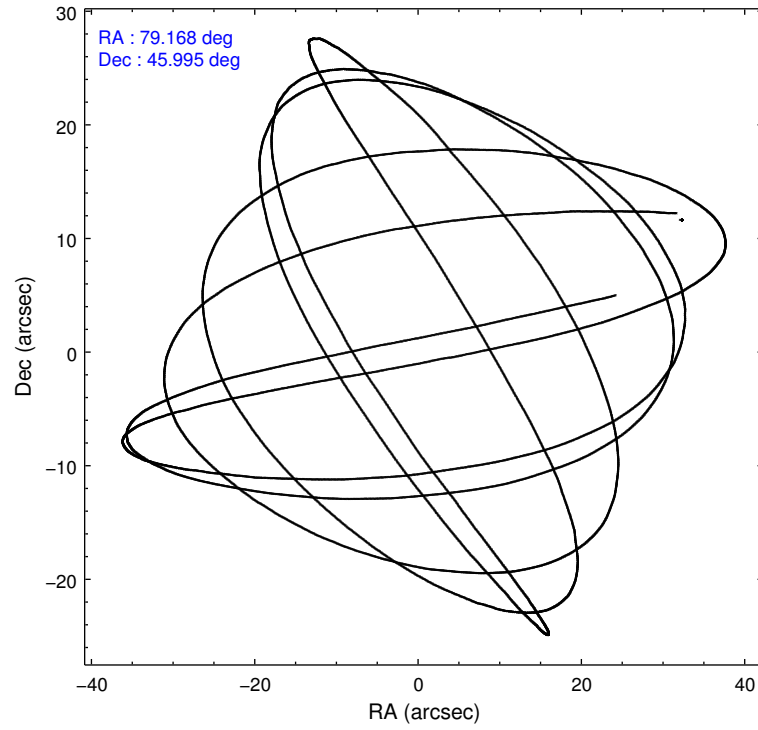
Level 1 Events

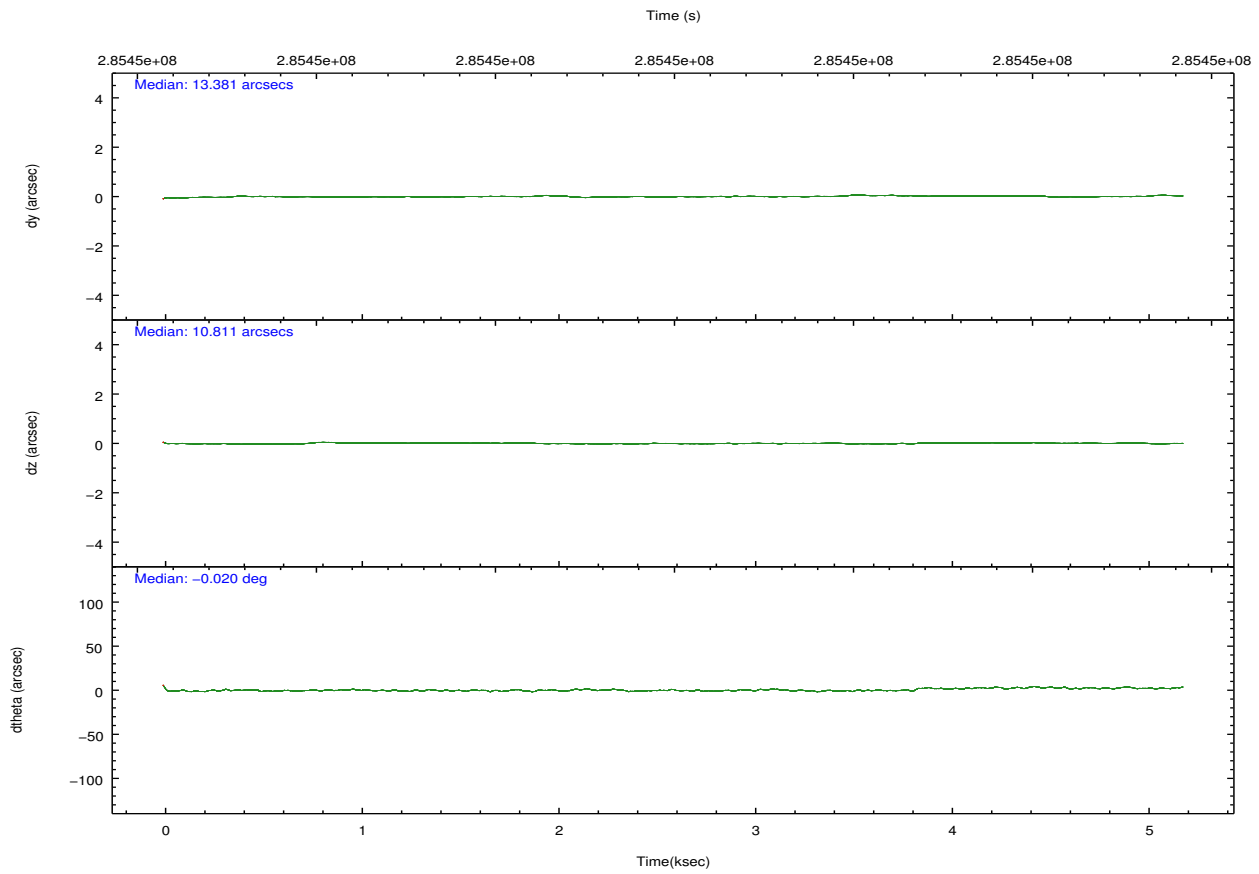
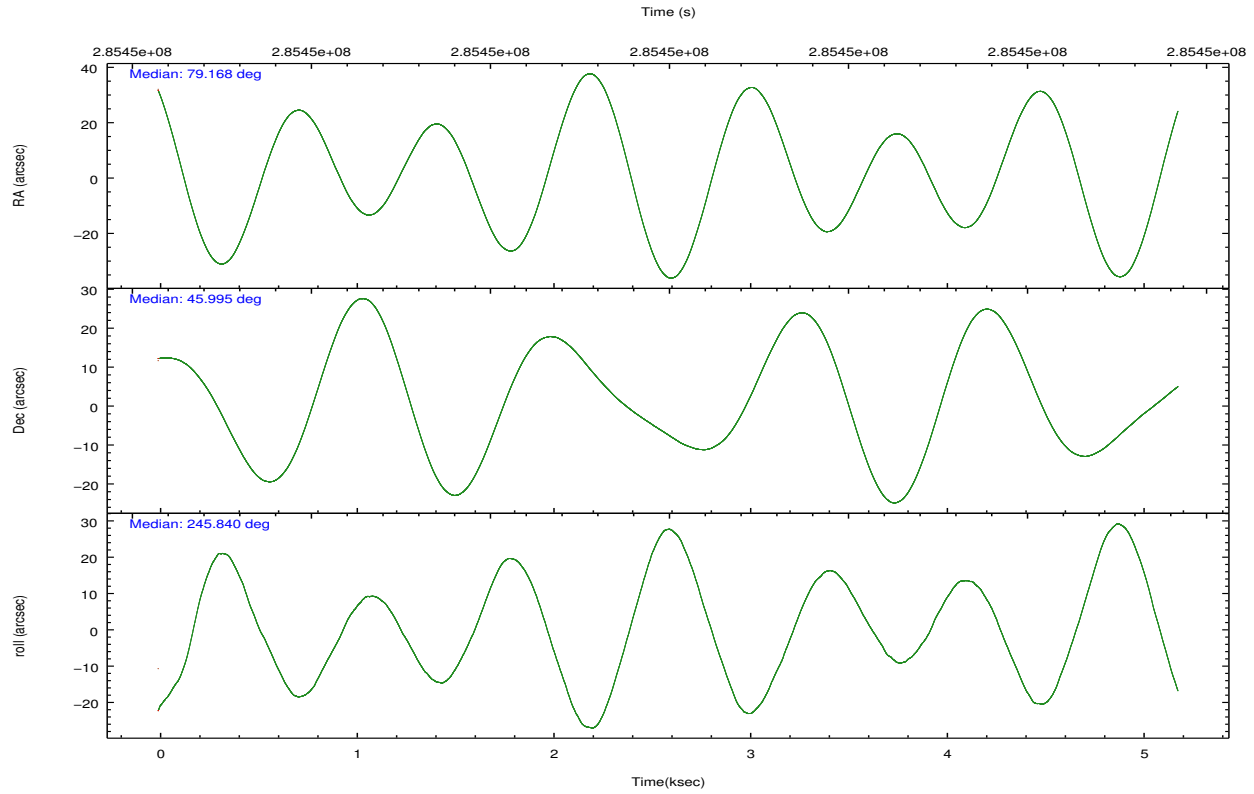
| | segment 0 |
|-----------------|----------------------|
| level 1 events | 529975 |
| rejected events | 31275 |
| rejected % | 5% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-I | HRC-I | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 79.163252 | 79.16779315579809 | | | |
| [deg] Pointing Dec | 46.022045 | 45.99489640775623 | | | |
| [deg] Pointing Roll | 245.941902 | 245.8431615044741 | | | |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0 | 0.001426264420575141 | | | |
| [mm] SIM translation stage pos | 150.985494 | 150.9821195433765 | | | |
| [mm] SIM translation stage offset | -24 | -23.99663065177489 | | | |
| [s] Observation start time (MET) | 285446572.184000 | 285446196.09876 | | | |
| Observation start date | 2007-01-17T18:41:47 | 2007-01-17T18:36:36 | | | |
| [s] Observation end time (MET) | 285451572.184000 | 285451705.98652 | | | |
| Observation end date | 2007-01-17T20:05:07 | 2007-01-17T20:08:25 | | | |

2.3 Aspect



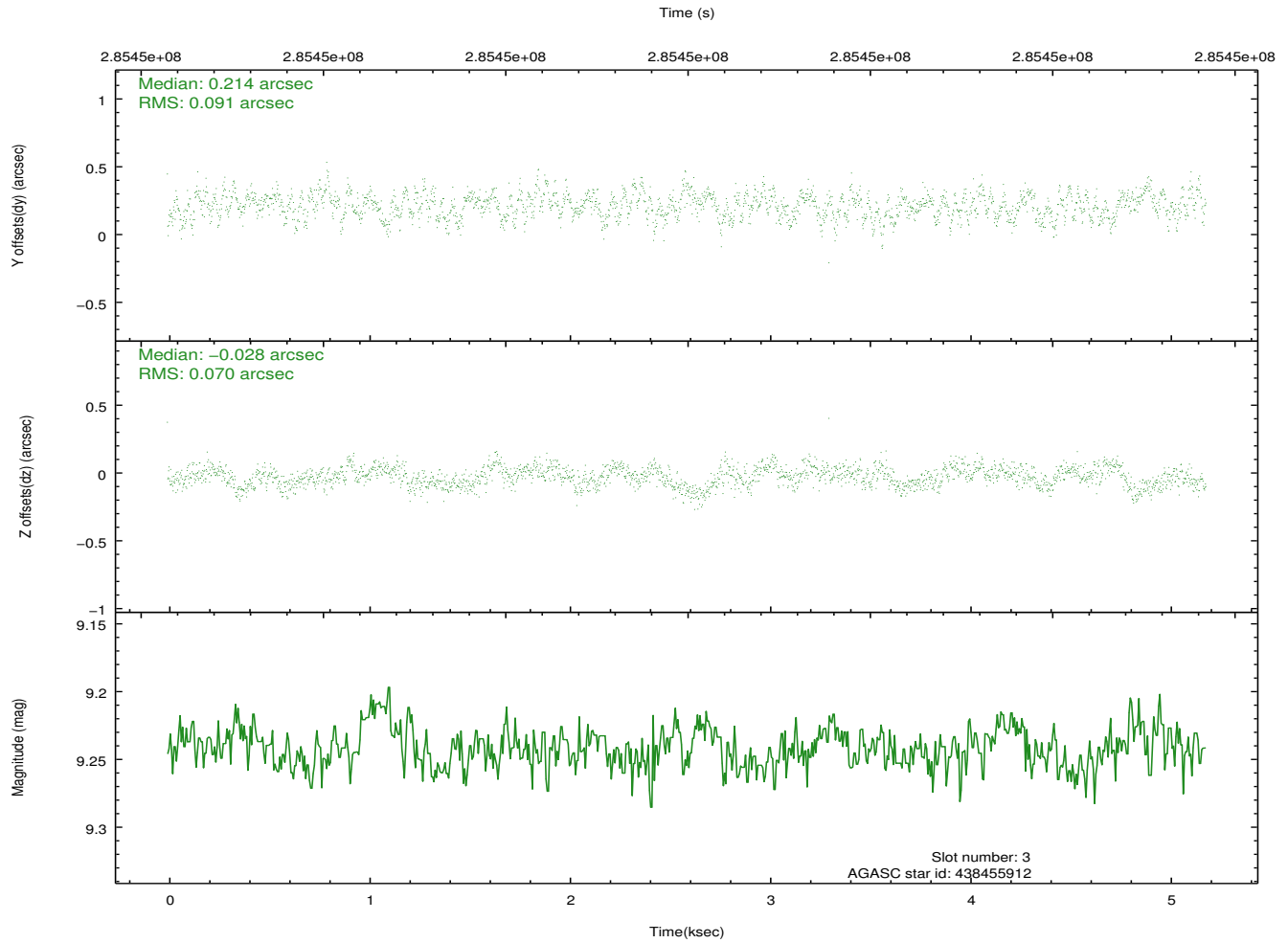
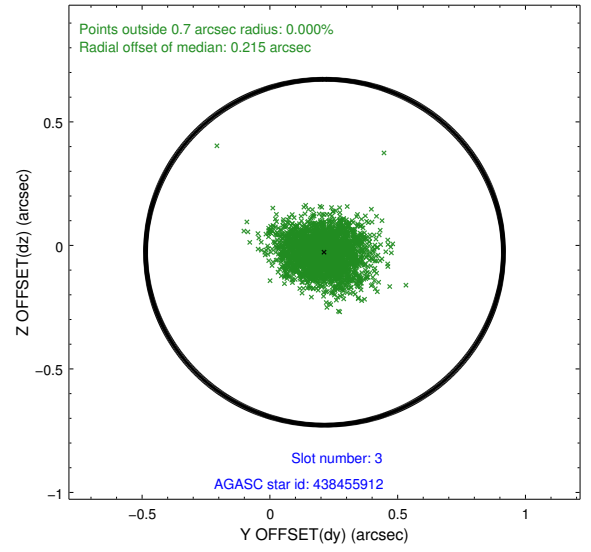
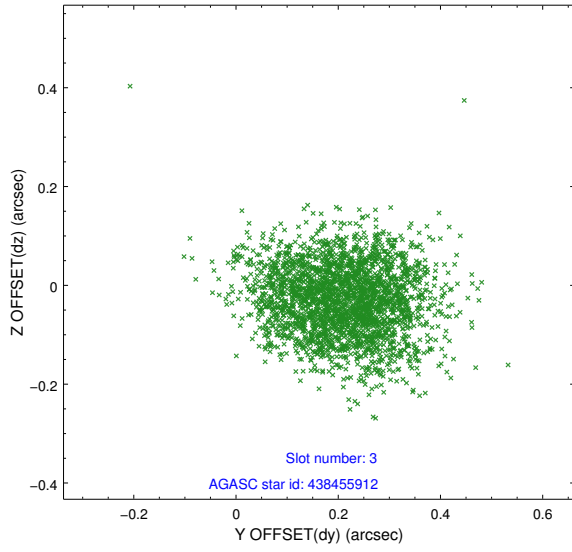


Slot Statistics

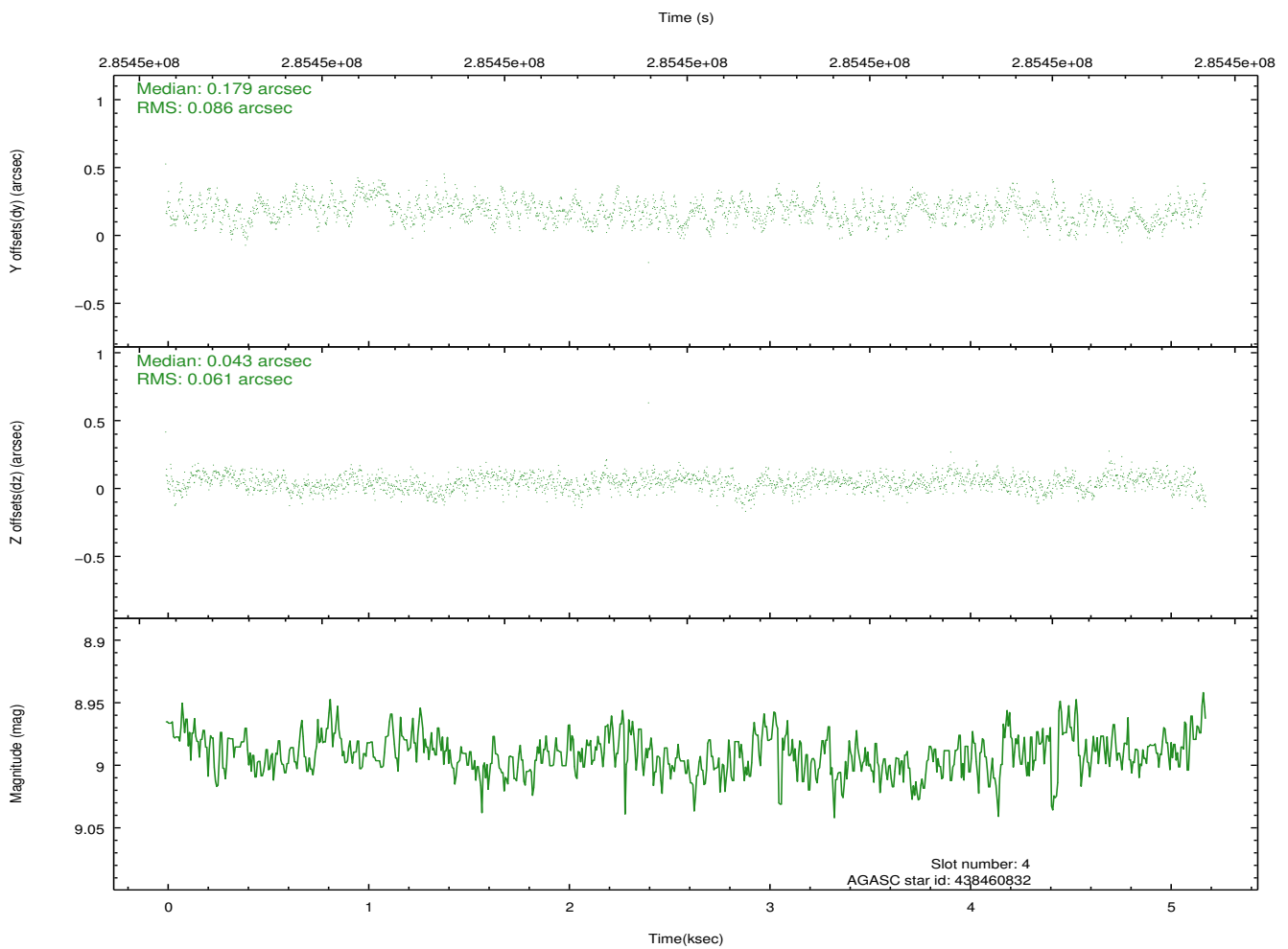
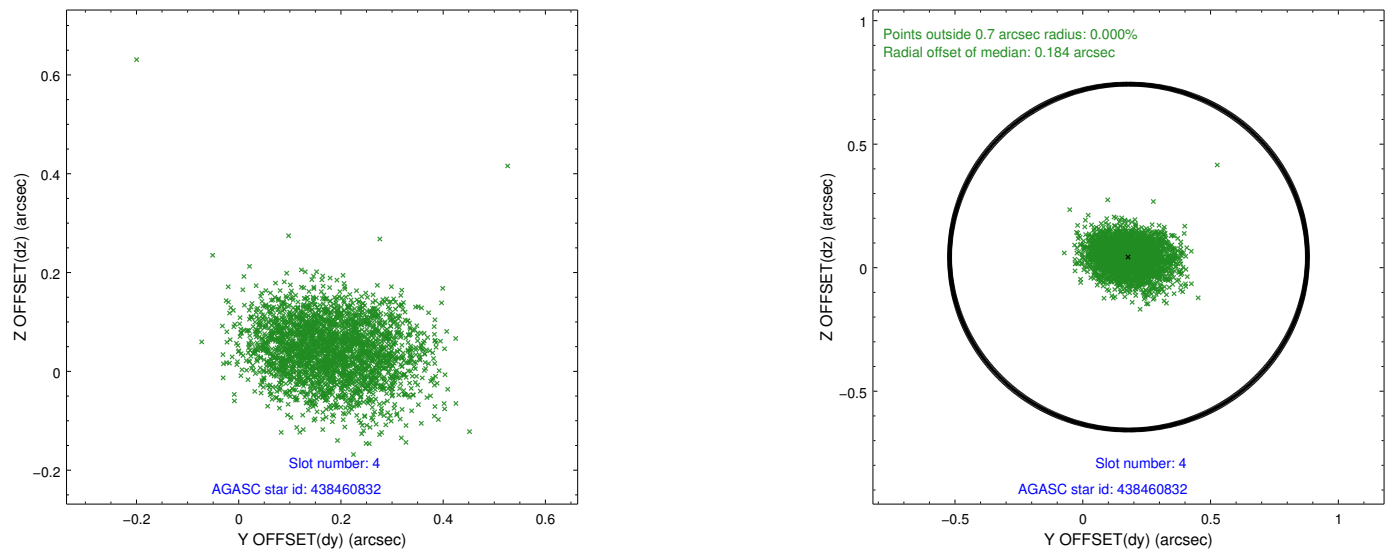
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | HRC-I-2 | 7.05 | 1265 | -0.189 | -1.082 | 0.021 | 0.050 | 0.000000 | 0.000000 | 844.67 | -1794.42 |
| 1 | FID | HRC-I-3 | 7.13 | 1265 | 0.556 | -0.062 | 0.011 | 0.018 | 0.000000 | 0.000000 | -1196.17 | 510.27 |
| 2 | FID | HRC-I-4 | 6.96 | 1264 | -0.248 | 1.058 | 0.018 | 0.050 | 0.000000 | 0.000000 | 1272.69 | 512.03 |
| 3 | GUIDE | 438455912 | 9.24 | 2529 | 0.214 | -0.028 | 0.122 | 0.194 | 78.251946 | 45.690923 | 2010.71 | -1611.18 |
| 4 | GUIDE | 438460832 | 8.99 | 2528 | 0.179 | 0.043 | 0.111 | 0.178 | 78.414614 | 45.554782 | 2298.11 | -1040.72 |
| 5 | GUIDE | 440140240 | 9.98 | 2530 | -0.173 | 0.078 | 0.143 | 0.231 | 78.889349 | 46.726437 | -2040.64 | -1651.22 |
| 6 | GUIDE | 440150048 | 7.14 | 2529 | -0.203 | -0.027 | 0.075 | 0.123 | 79.112838 | 46.416060 | -1245.62 | -692.54 |
| 7 | GUIDE | 440163960 | 8.88 | 2527 | -0.026 | -0.066 | 0.085 | 0.134 | 79.298370 | 45.827072 | 501.43 | 596.04 |

2.4 Star Slots

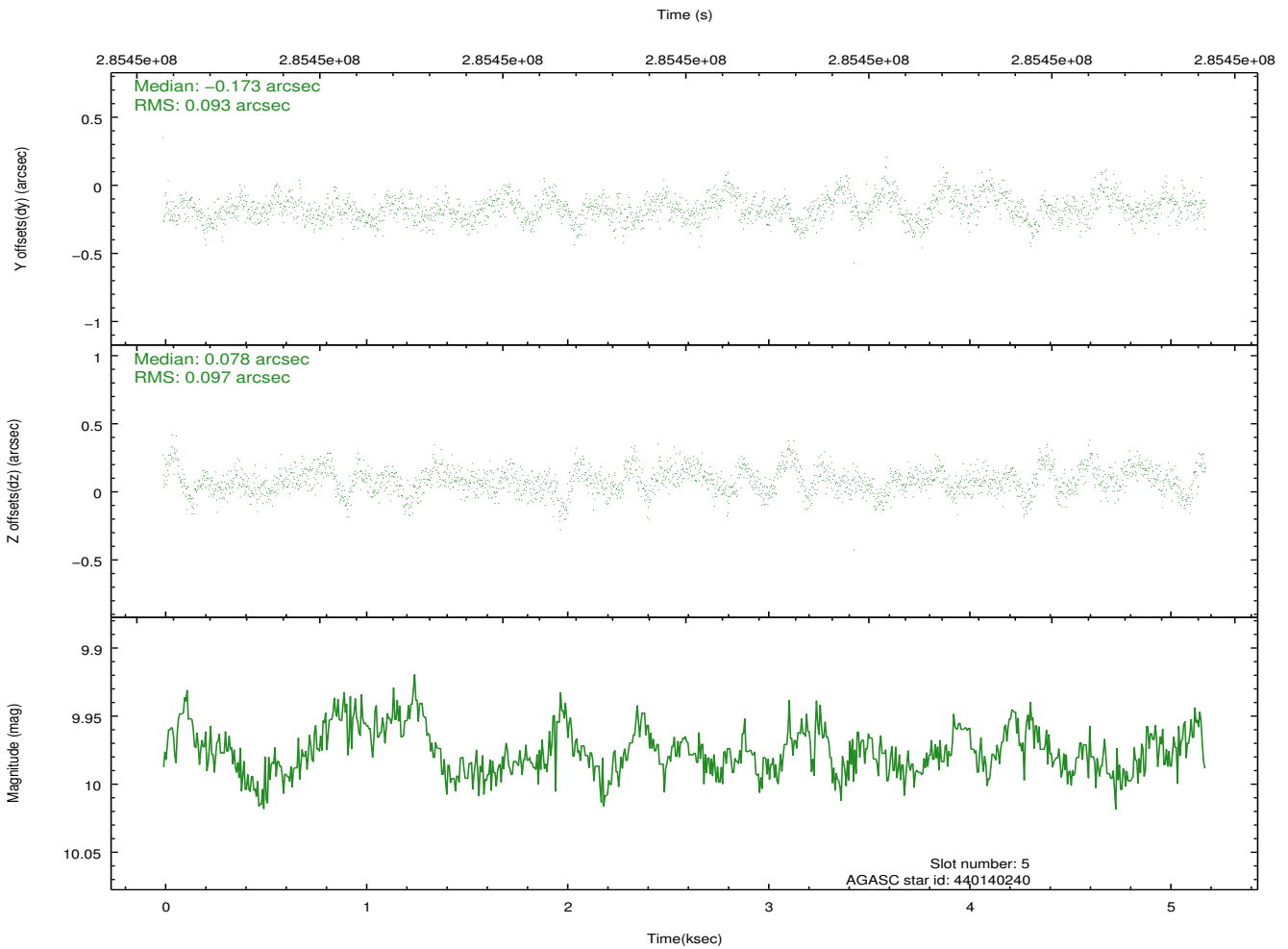
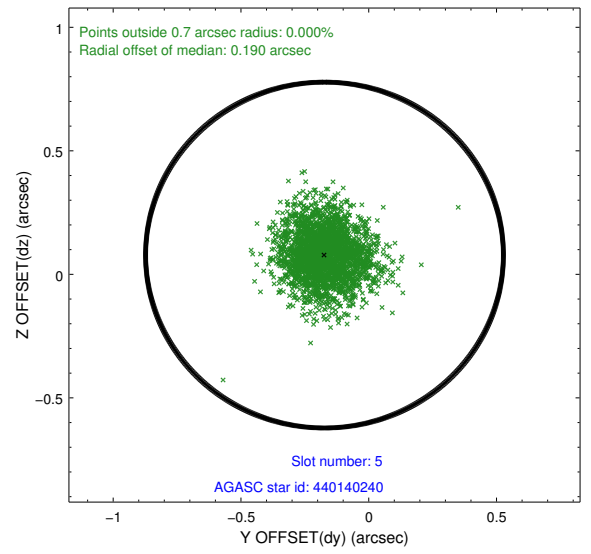
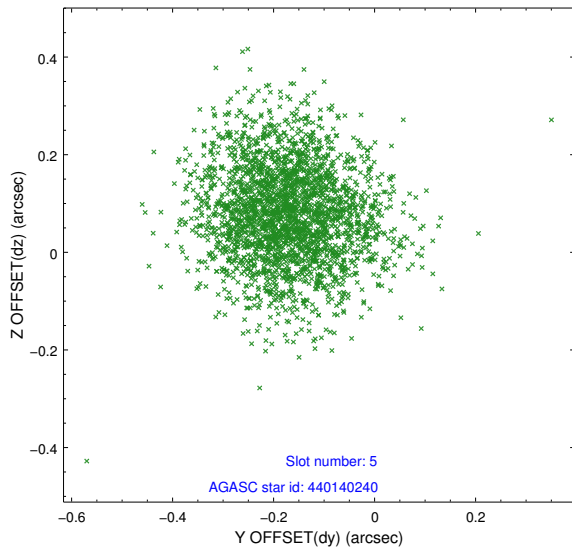
2.4.1 Slot 3



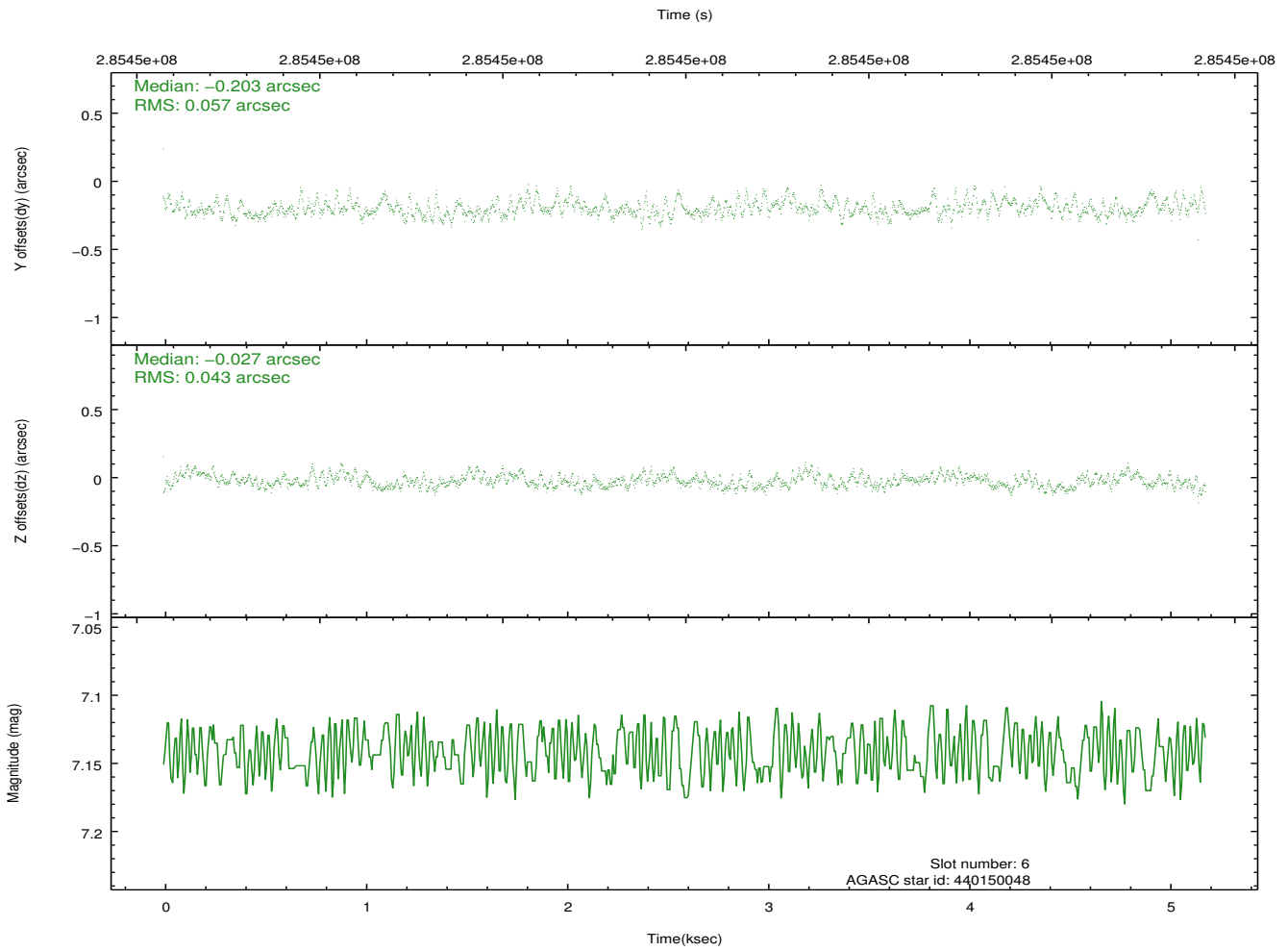
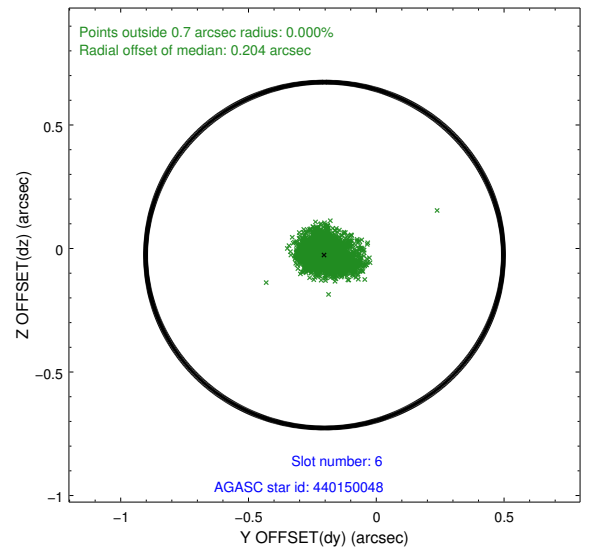
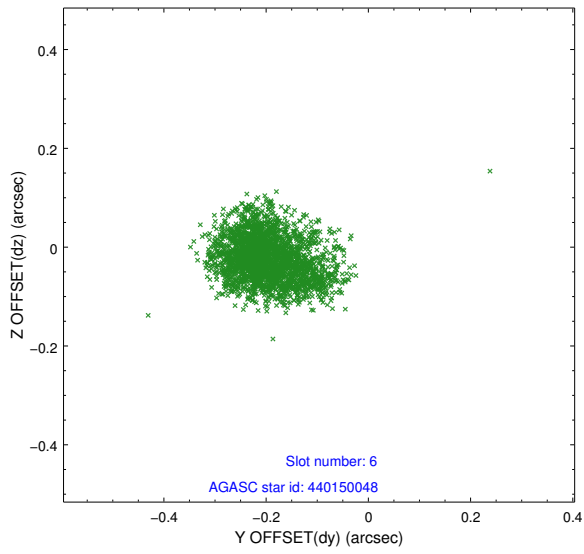
2.4.2 Slot 4



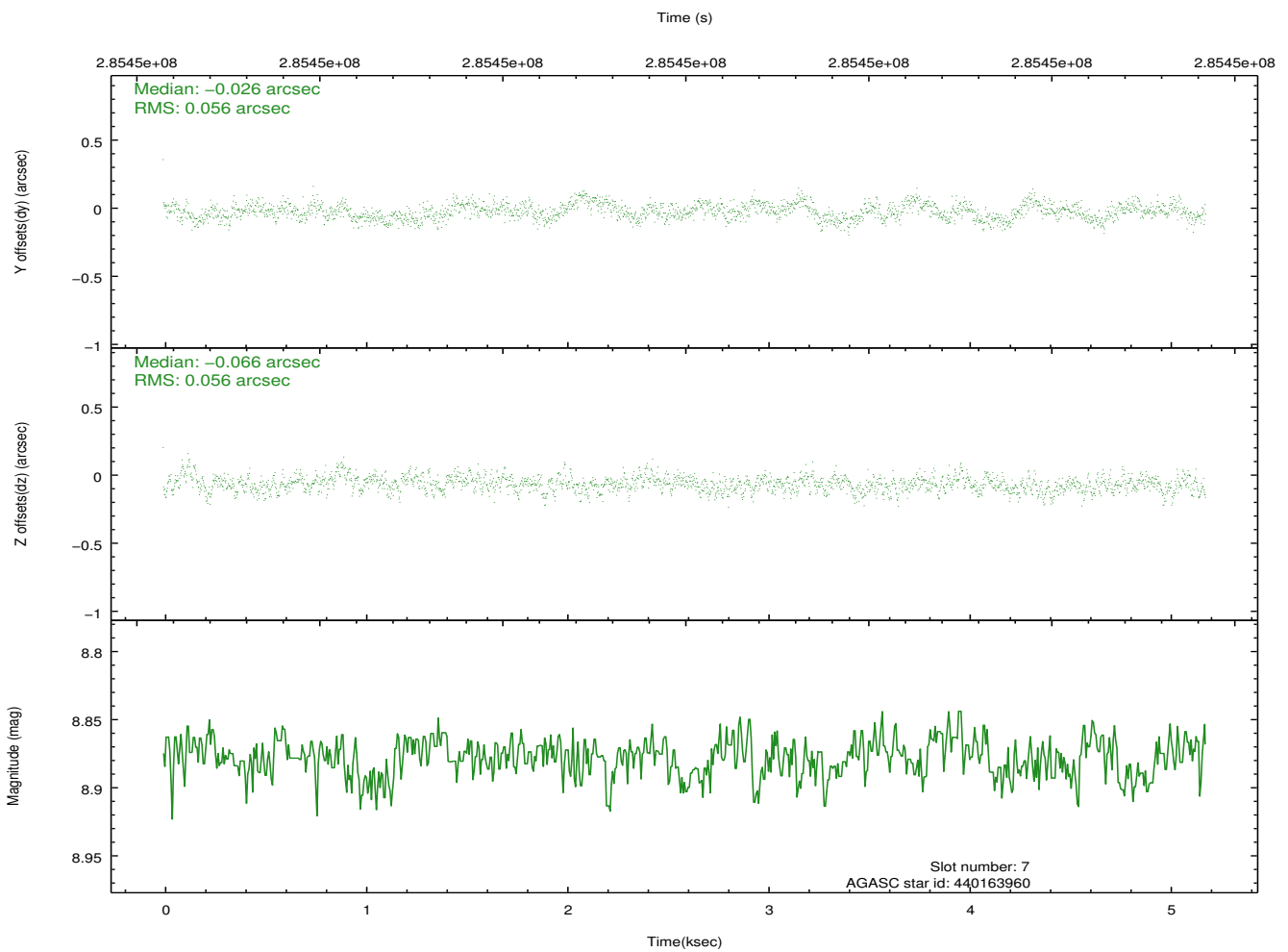
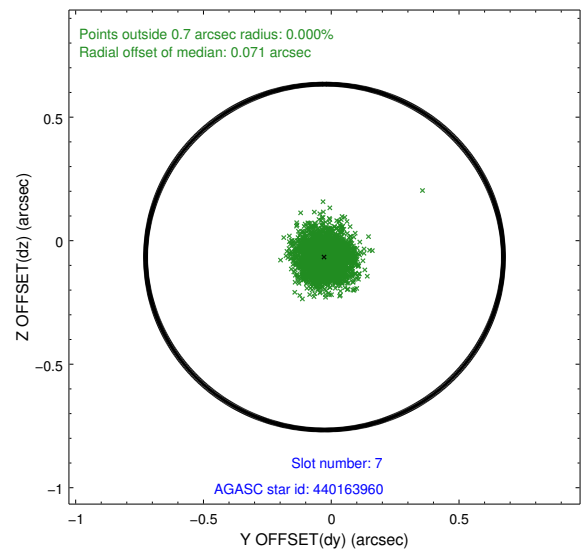
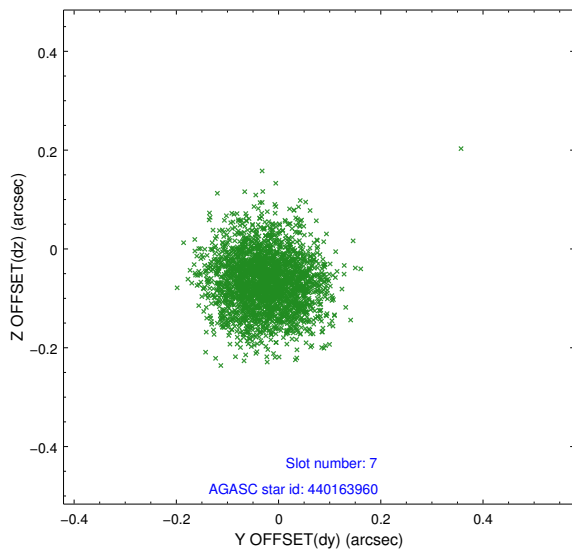
2.4.3 Slot 5



2.4.4 Slot 6

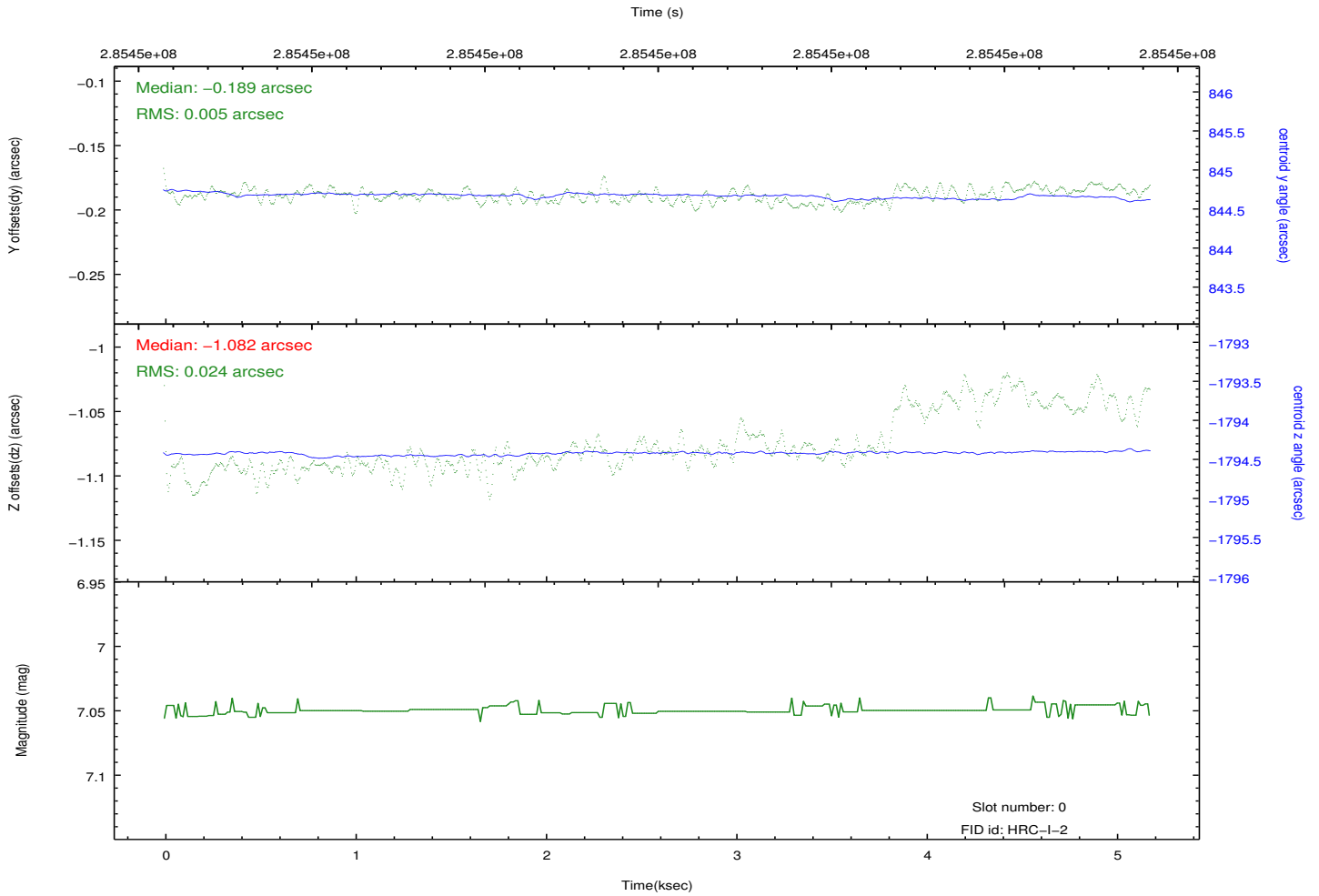
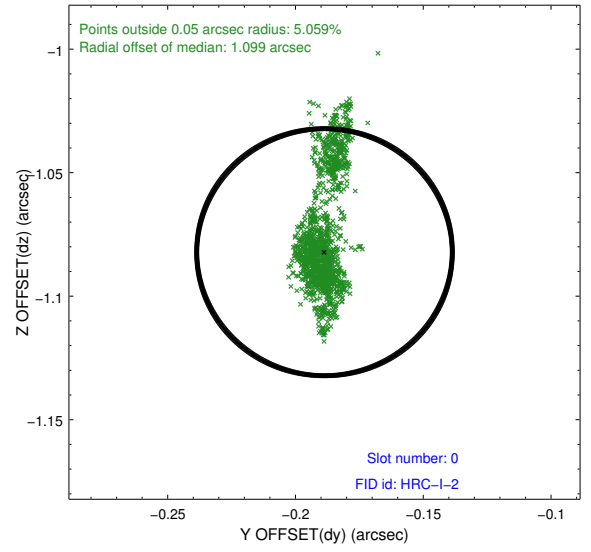
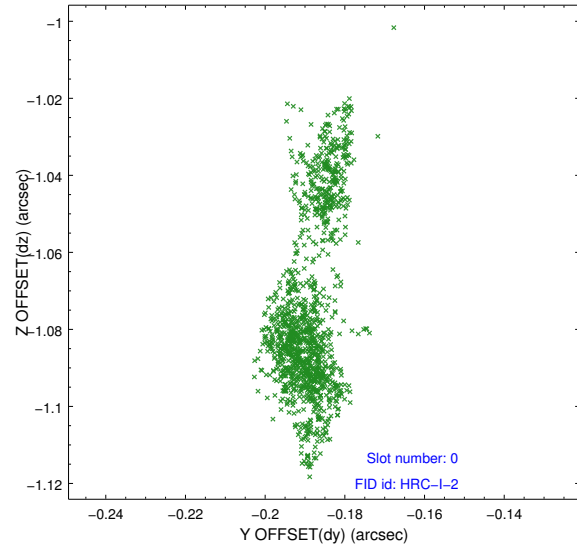


2.4.5 Slot 7

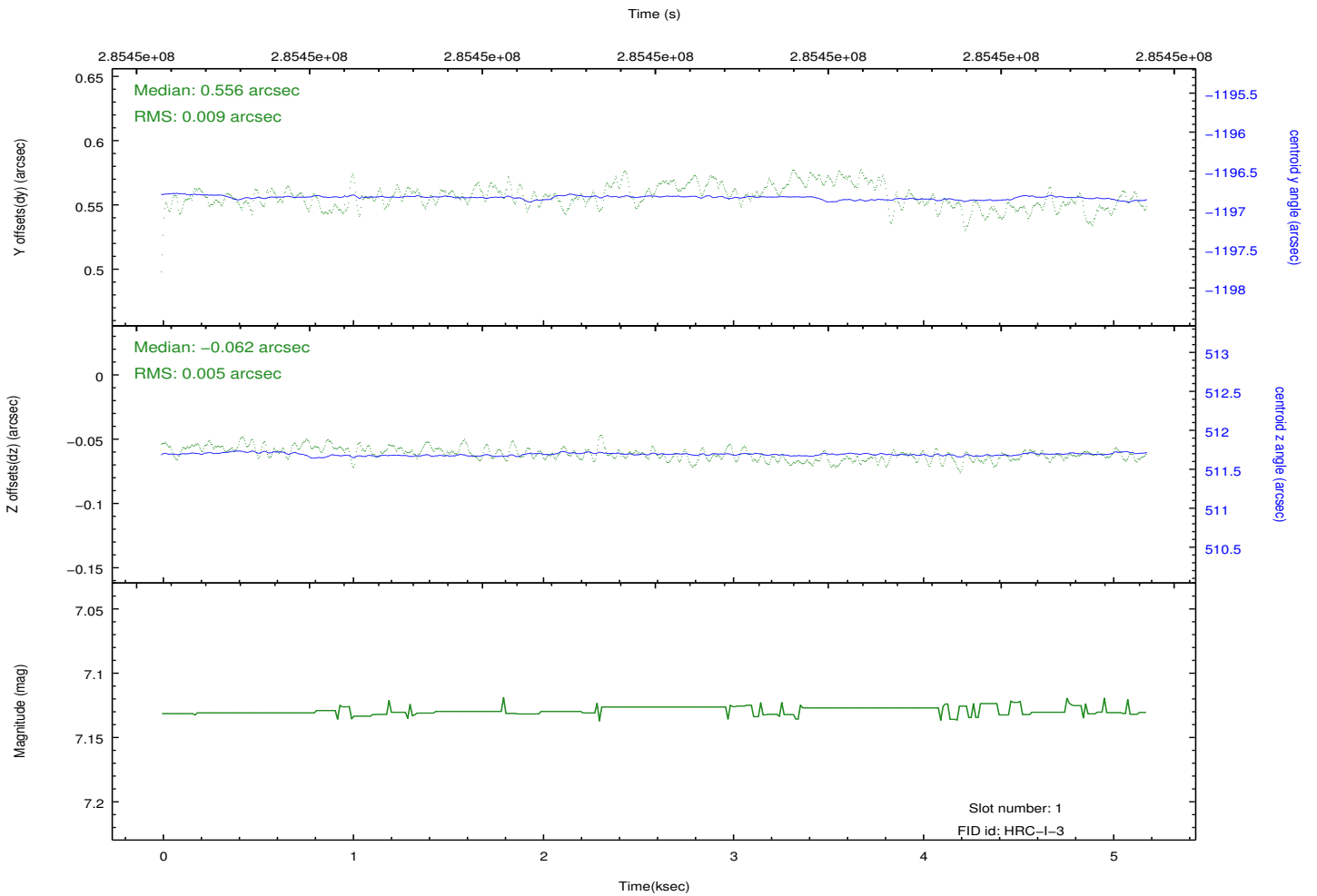
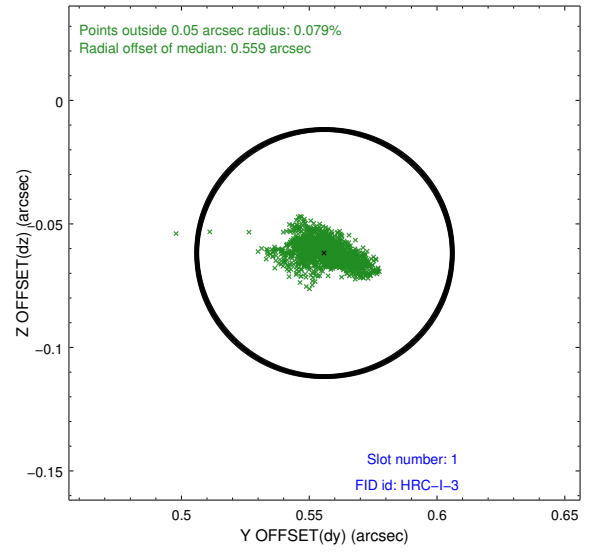
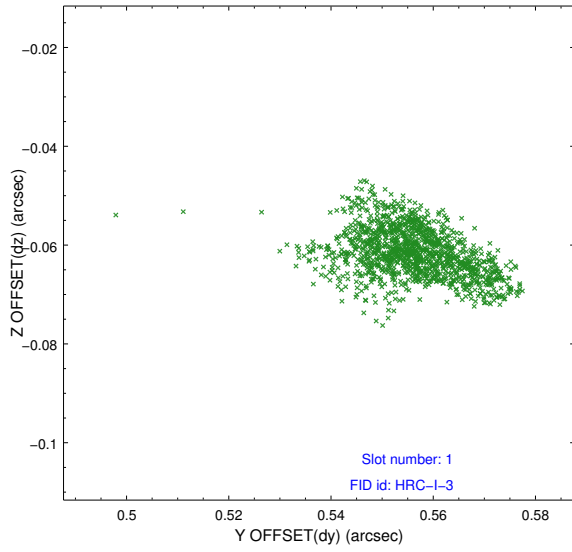


2.5 FID Slots

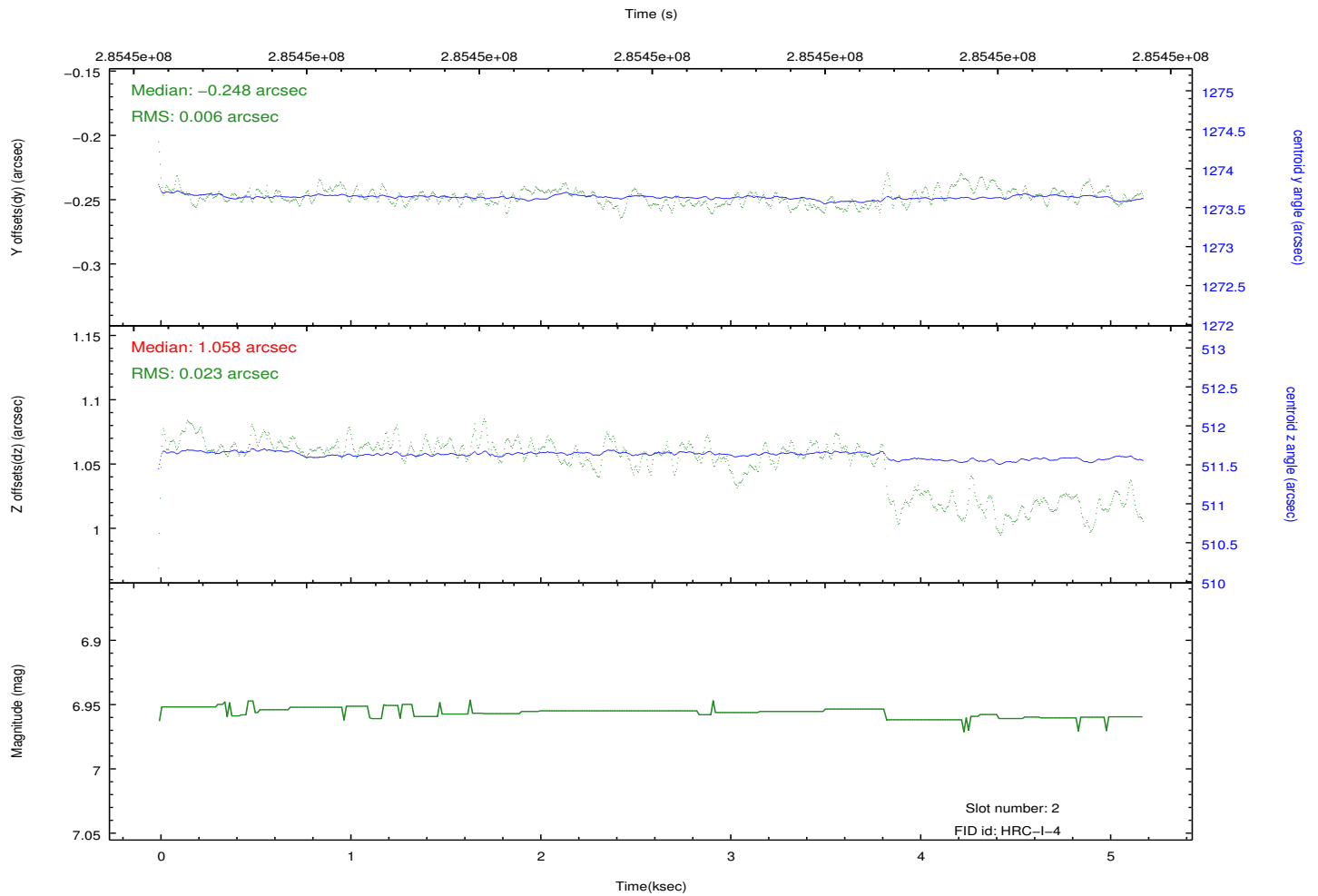
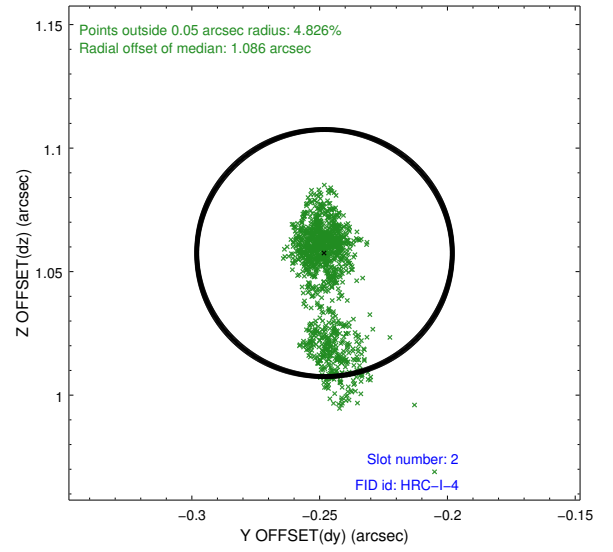
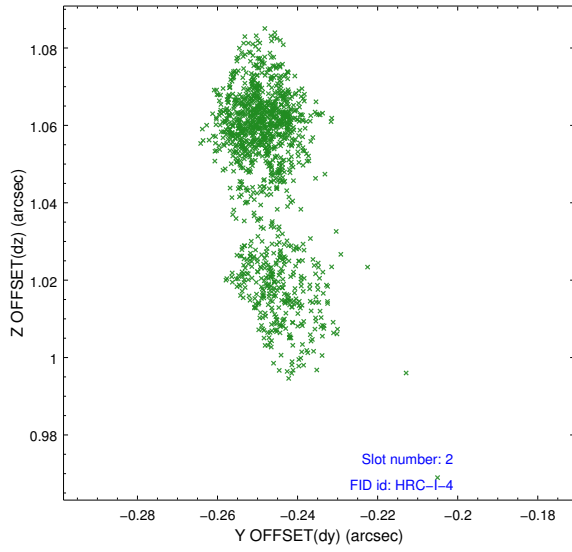
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.08.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.18368149 |

A.2 Comments

This observation has a `sim_z_offset` of -23.99 [mm], and the fid radial offsets of 1.099 arcsec (slot 0), 0.559 arcsec (slot 1), and 1.086 arcsec (slot 2) are ok for Aspect.