

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10611 - L2 Version 3
Chandra X-Ray Center

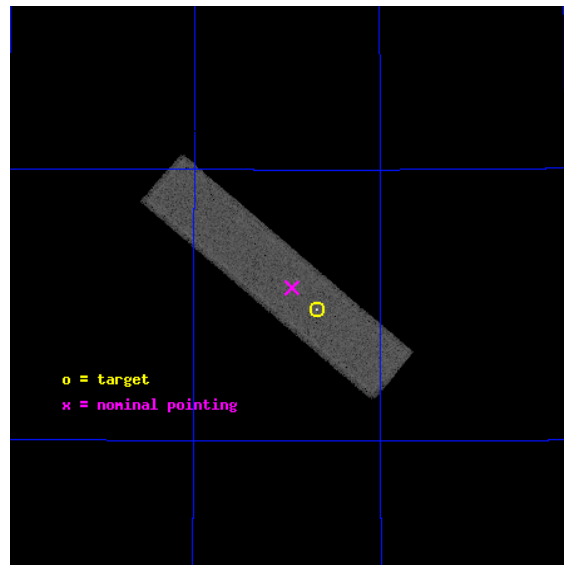
L2 Processing Date : Aug 13 2012

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1 Front

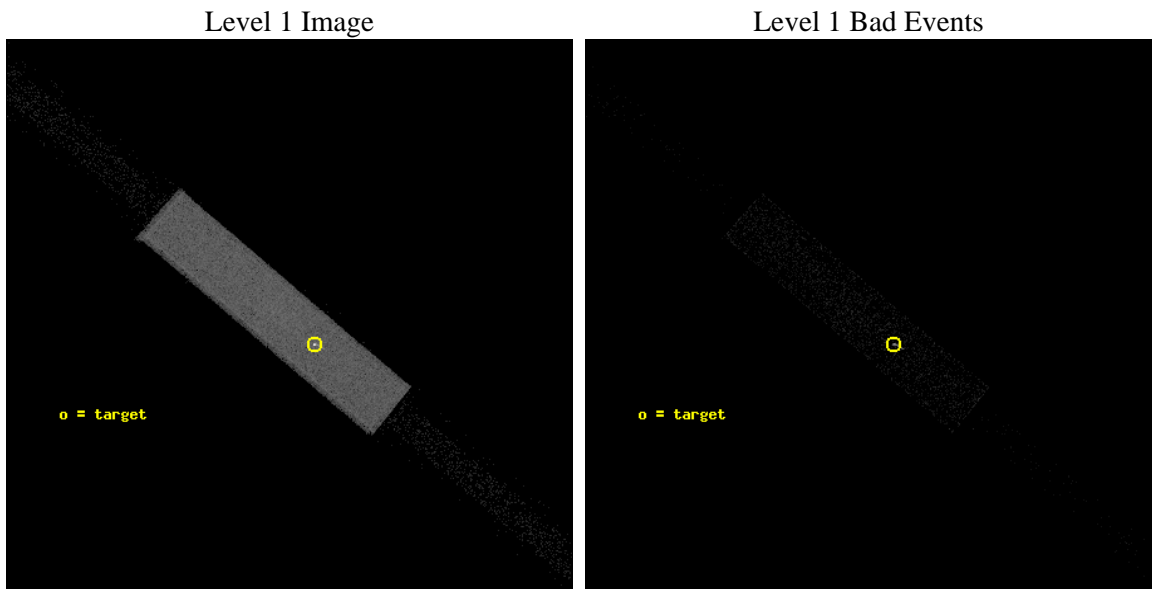
| | | |
|----------|------------------------------------------------------------------------------------|---------------------------------------|
| seq_num | 290847 | Sequence number |
| obs_id | 10611 | Observation id |
| title | AO-10 Calibration Observations to Monitor the Spatial Variations in the 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 | 332.23669220477 | Nominal RA [deg] |
| dec_nom | 45.782449665052 | Nominal Dec [deg] |
| roll_nom | 220.18947452632 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1182.0813094378 | [s] |
| livetime | 1170.6382206808 | Ontime multiplied by DTCOR |
| l2events | 82795 | 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 | 1182.0813094378 | [s] |
| caldbver | 4.5.1.1 | | l1events | 126779 | Number of level 1 events |
| date | 2012-08-13T16:36:25 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

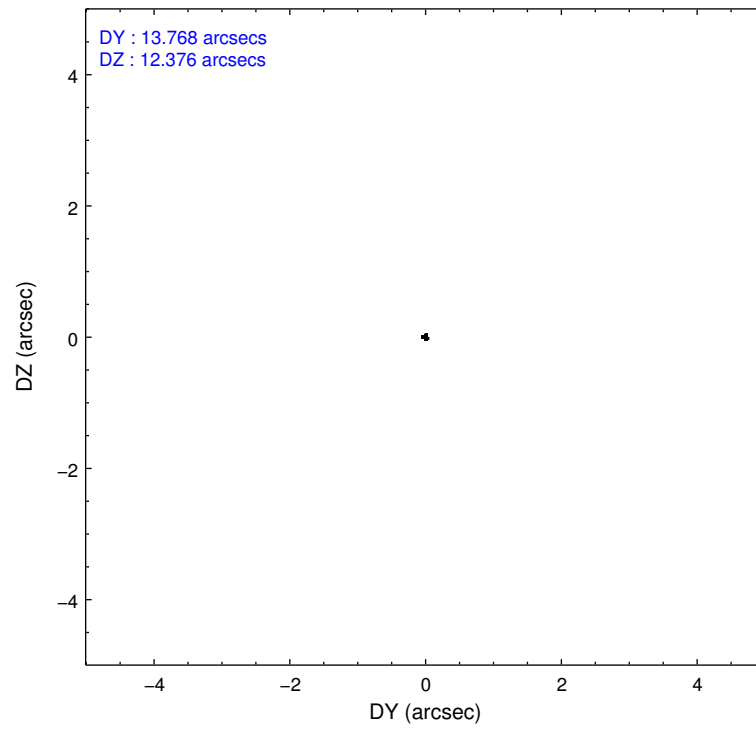
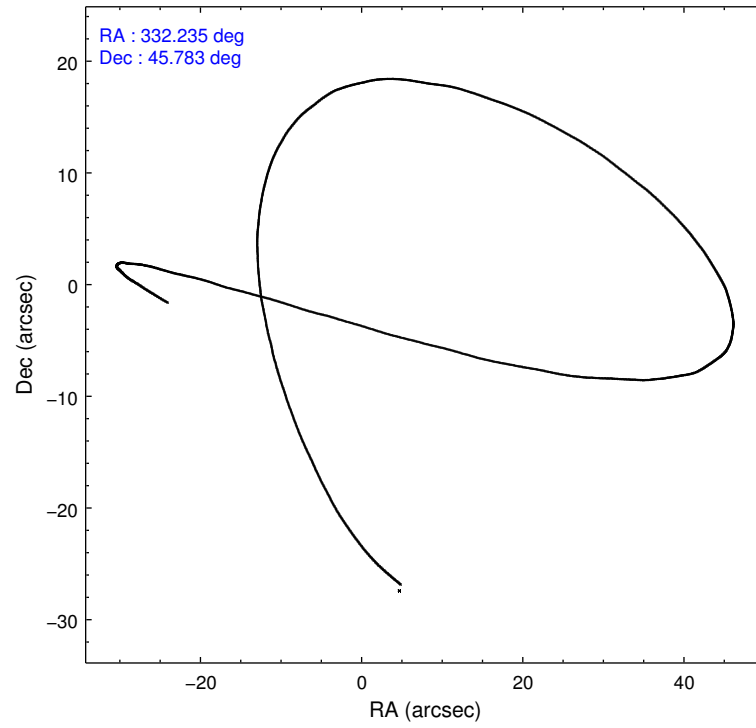
| | segment 1 | segment 2 | segment 3 |
|-----------------|--------------|--------------|--------------|
| level 1 events | 1221 | 124330 | 1228 |
| rejected events | 1221 | 26033 | 1228 |
| rejected % | 100% | 20% | 100% |

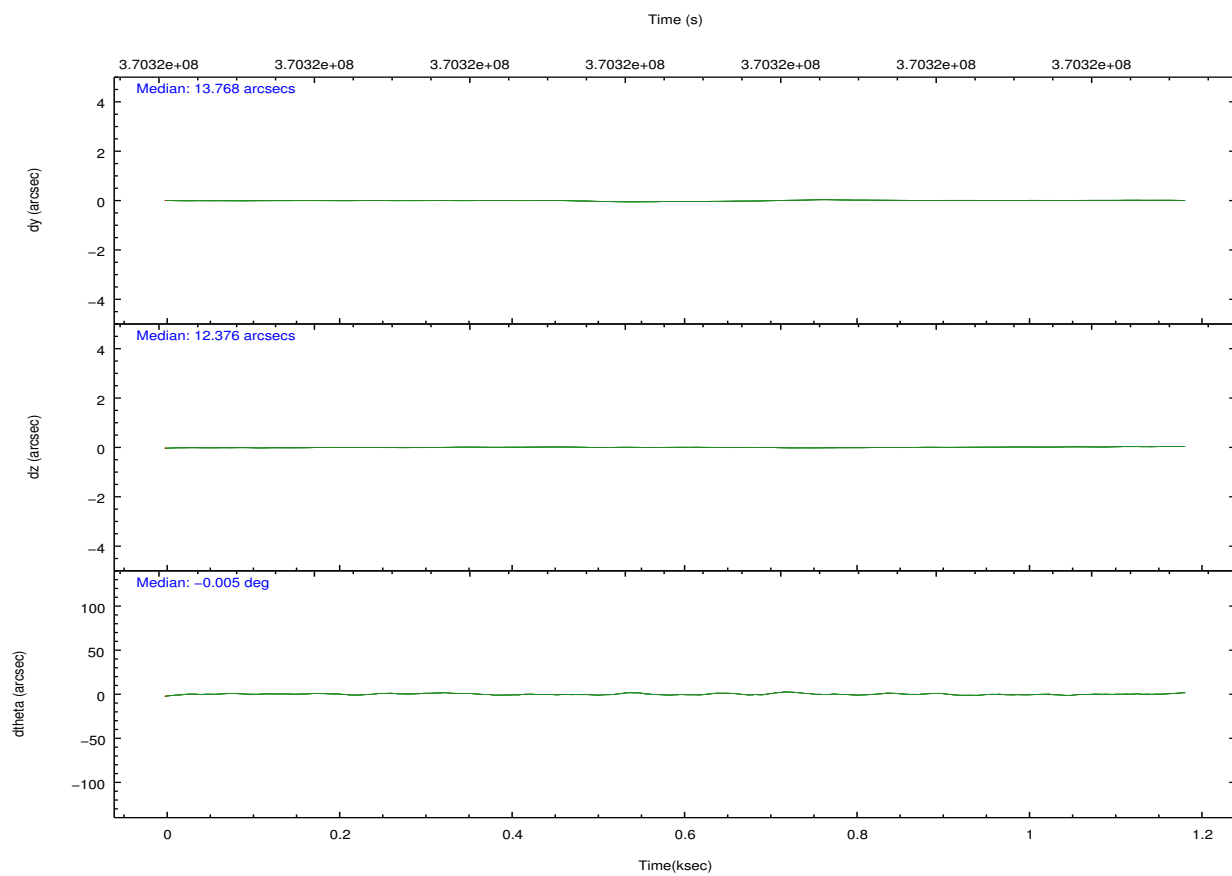
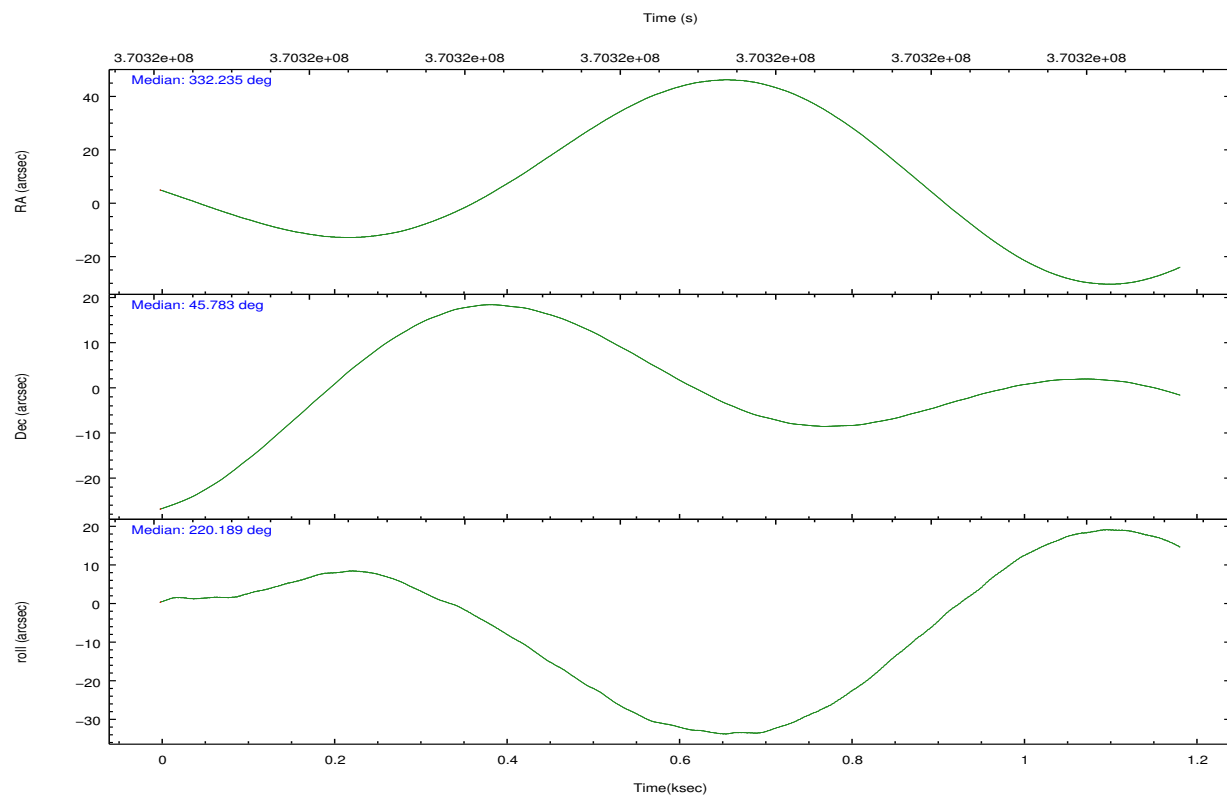
2.2 Compared Parameters

| 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 | 332.249777 | 332.2366922047691 |
| [deg] Pointing Dec | 45.809727 | 45.78244966505206 |
| [deg] Pointing Roll | 220.112668 | 220.1894745263201 |
| [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) | 370320853.184000 | 370320477.33974 |
| Observation start date | 2009-09-26T02:53:07 | 2009-09-26T02:47:57 |
| [s] Observation end time (MET) | 370321853.184000 | 370321987.16481 |
| Observation end date | 2009-09-26T03:09:47 | 2009-09-26T03:13:07 |

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

2.3 Aspect



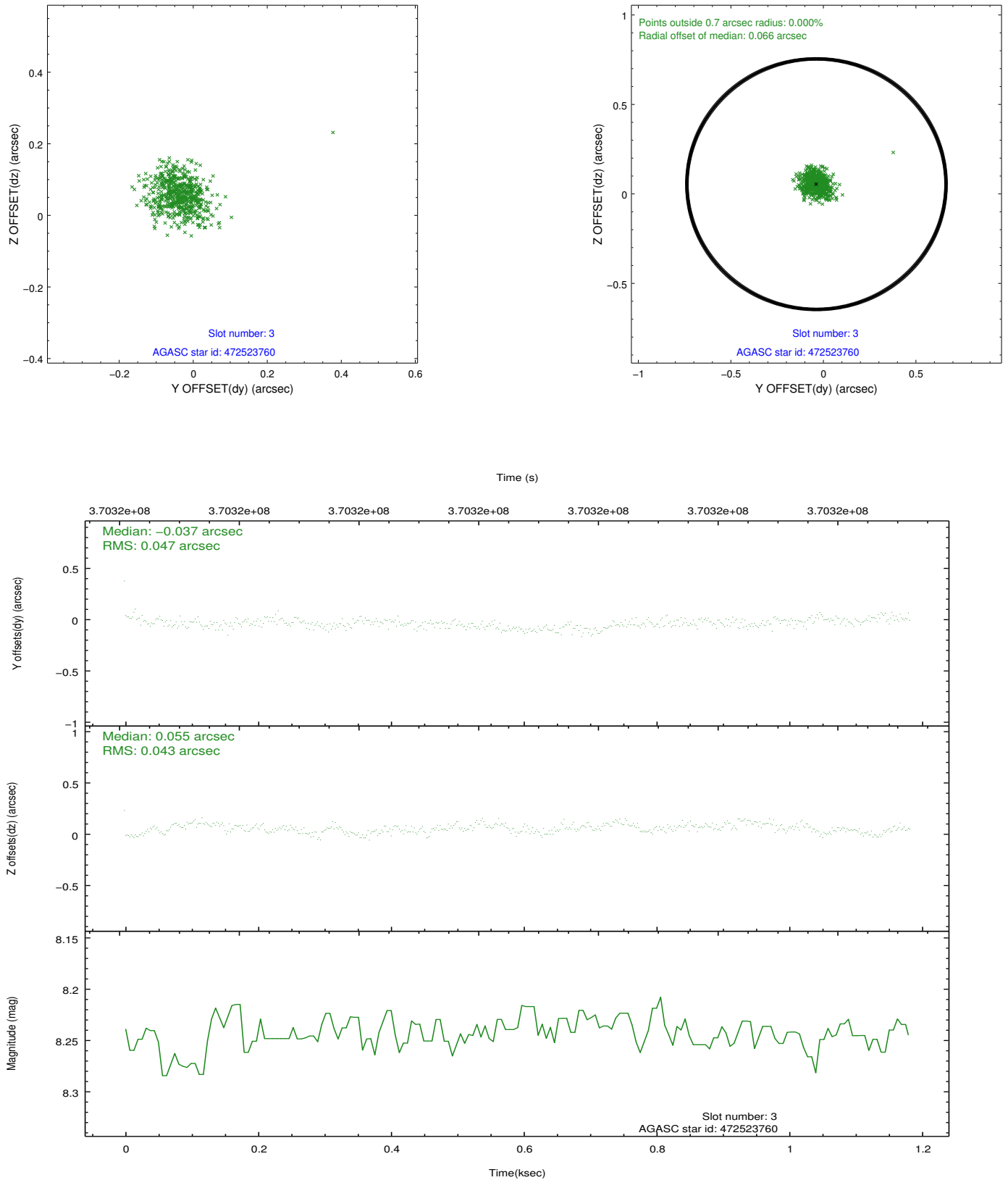


Slot Statistics

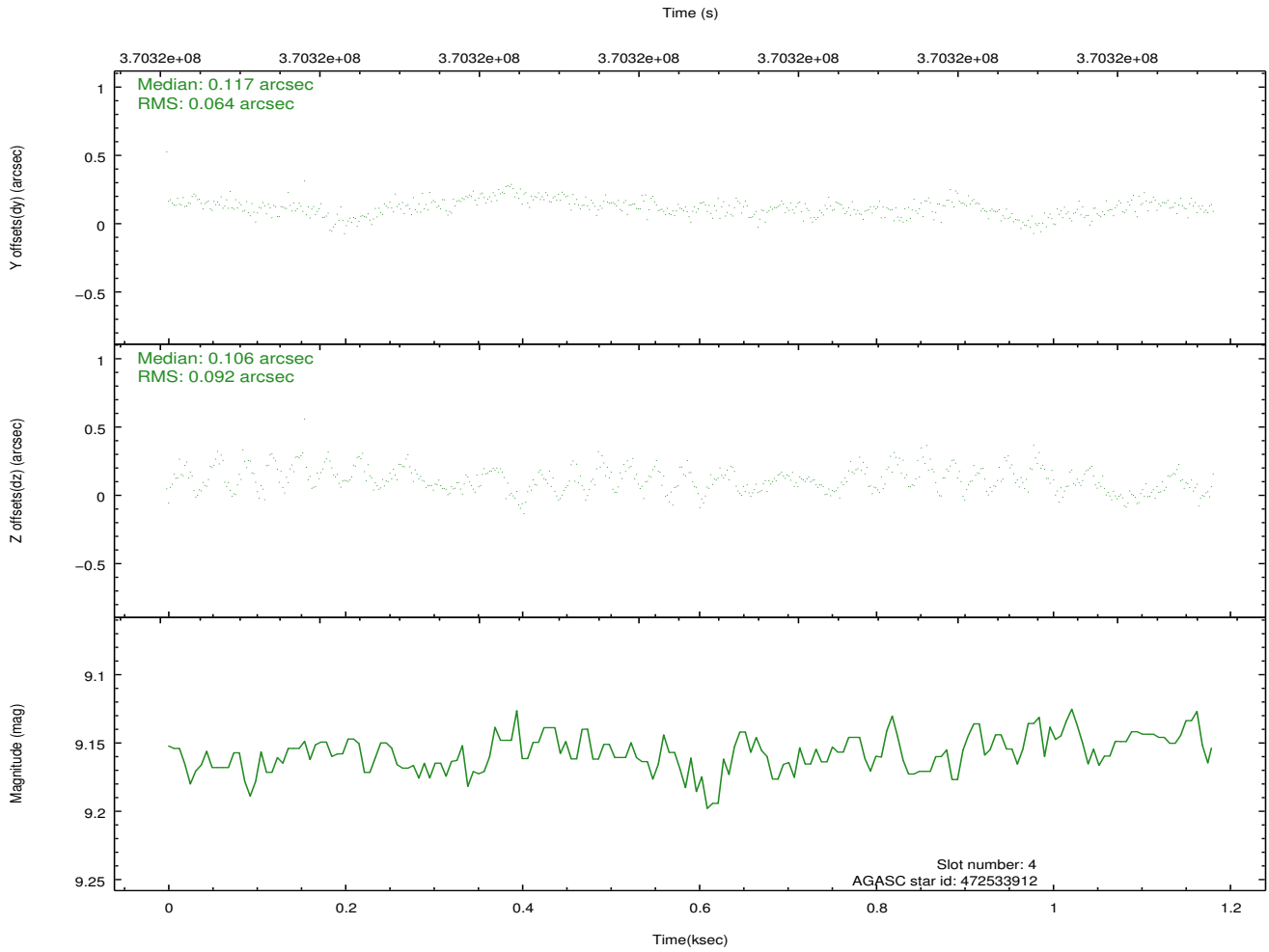
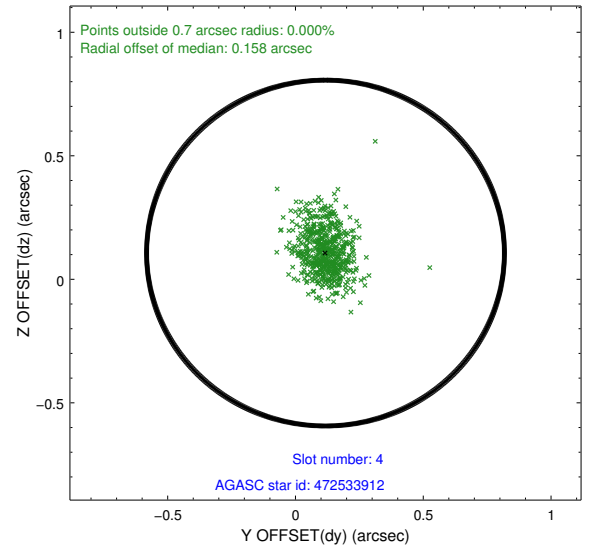
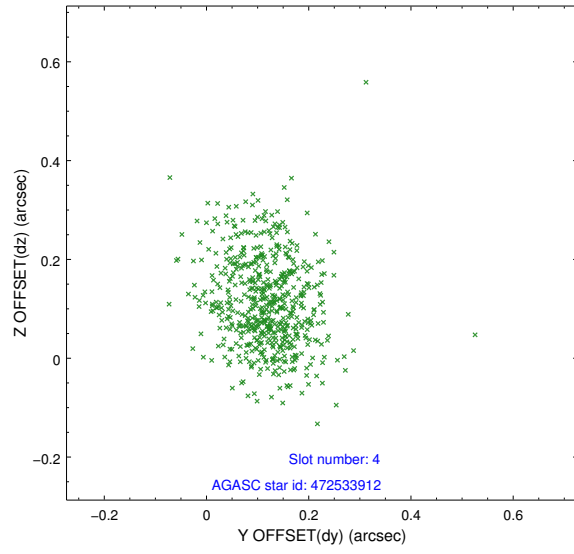
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 6.99 | 289 | 0.073 | -0.125 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1168.13 | -461.14 |
| 1 | FID | HRC-S-2 | 6.97 | 288 | 0.212 | -0.111 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1227.61 | -455.32 |
| 2 | FID | HRC-S-3 | 6.99 | 289 | 0.105 | -0.066 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1166.59 | 566.86 |
| 3 | GUIDE | 472523760 | 8.24 | 578 | -0.037 | 0.055 | 0.064 | 0.105 | 331.645363 | 45.403260 | 2106.27 | 133.08 |
| 4 | GUIDE | 472533912 | 9.16 | 578 | 0.117 | 0.106 | 0.114 | 0.192 | 331.791136 | 46.368695 | -424.70 | -2272.61 |
| 5 | GUIDE | 472651904 | 6.08 | 578 | -0.168 | -0.265 | 0.077 | 0.121 | 332.170077 | 45.742257 | 307.50 | 54.37 |
| 6 | GUIDE | 472655152 | 9.42 | 578 | 0.026 | -0.034 | 0.132 | 0.240 | 332.504239 | 45.862991 | -612.76 | 266.30 |
| 7 | GUIDE | 472665256 | 9.02 | 577 | 0.079 | 0.162 | 0.088 | 0.151 | 332.808125 | 46.195041 | -1963.13 | -165.05 |

2.4 Star Slots

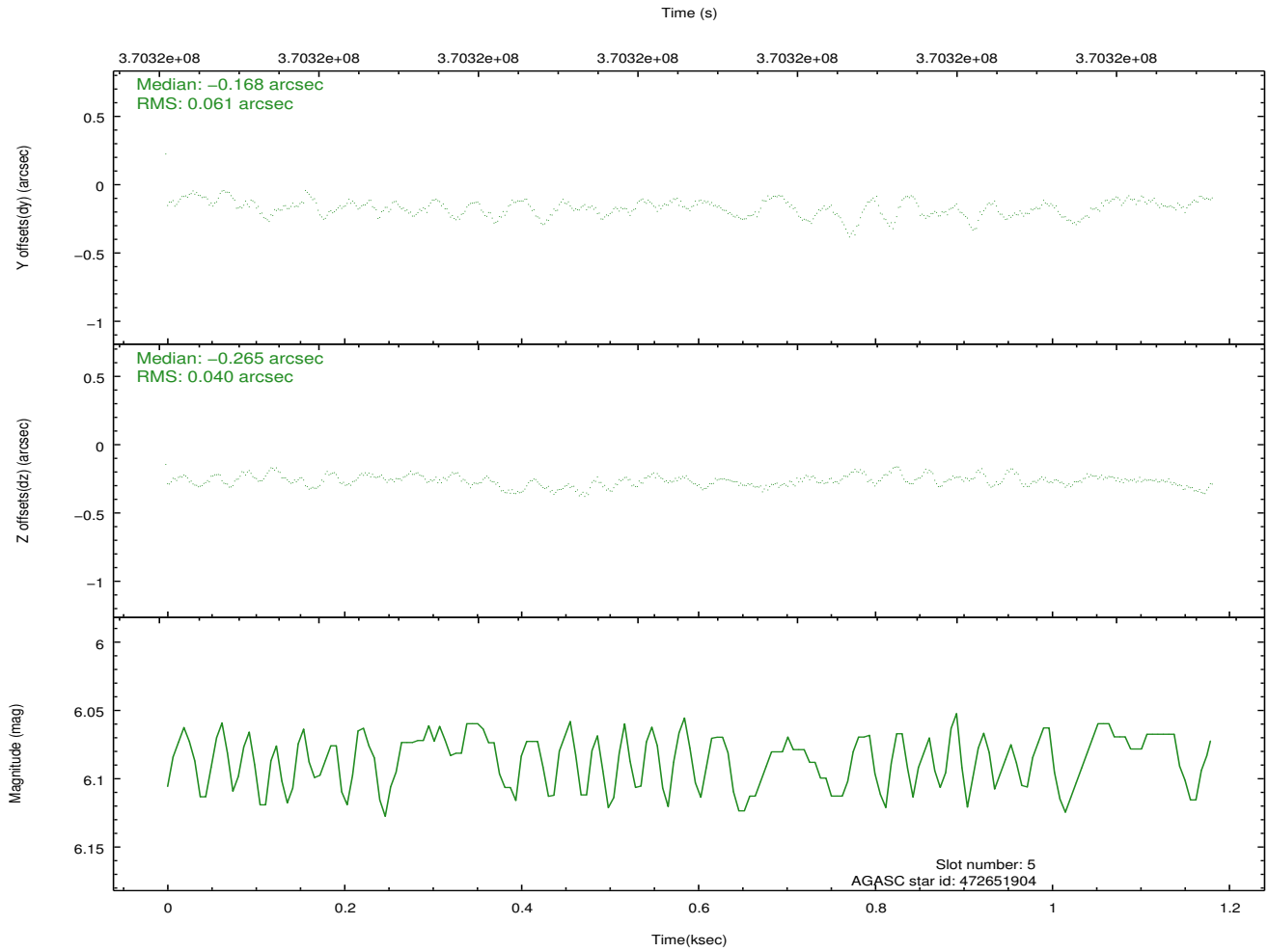
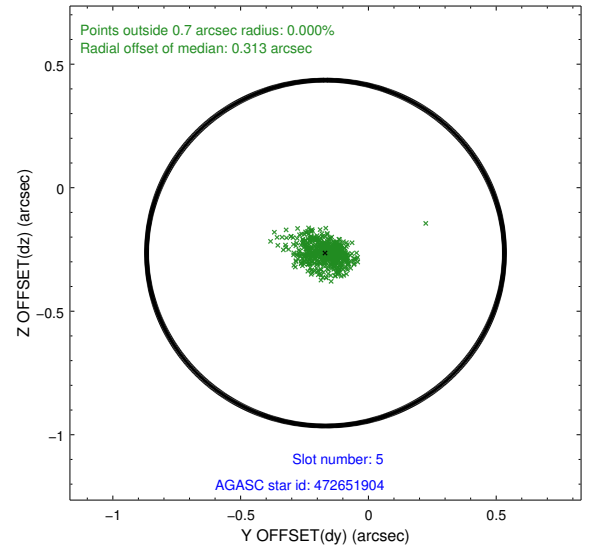
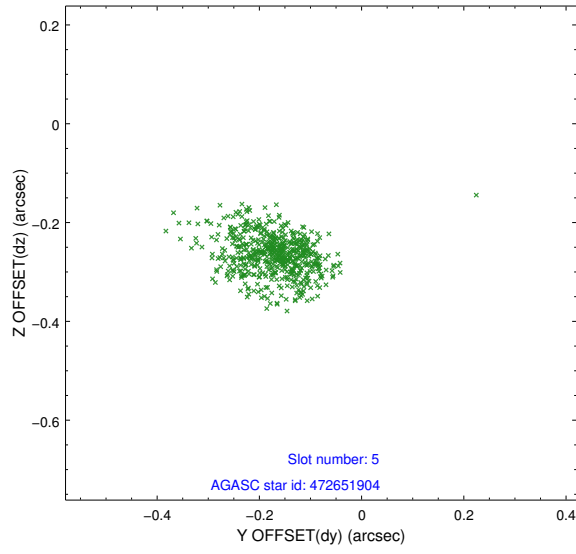
2.4.1 Slot 3



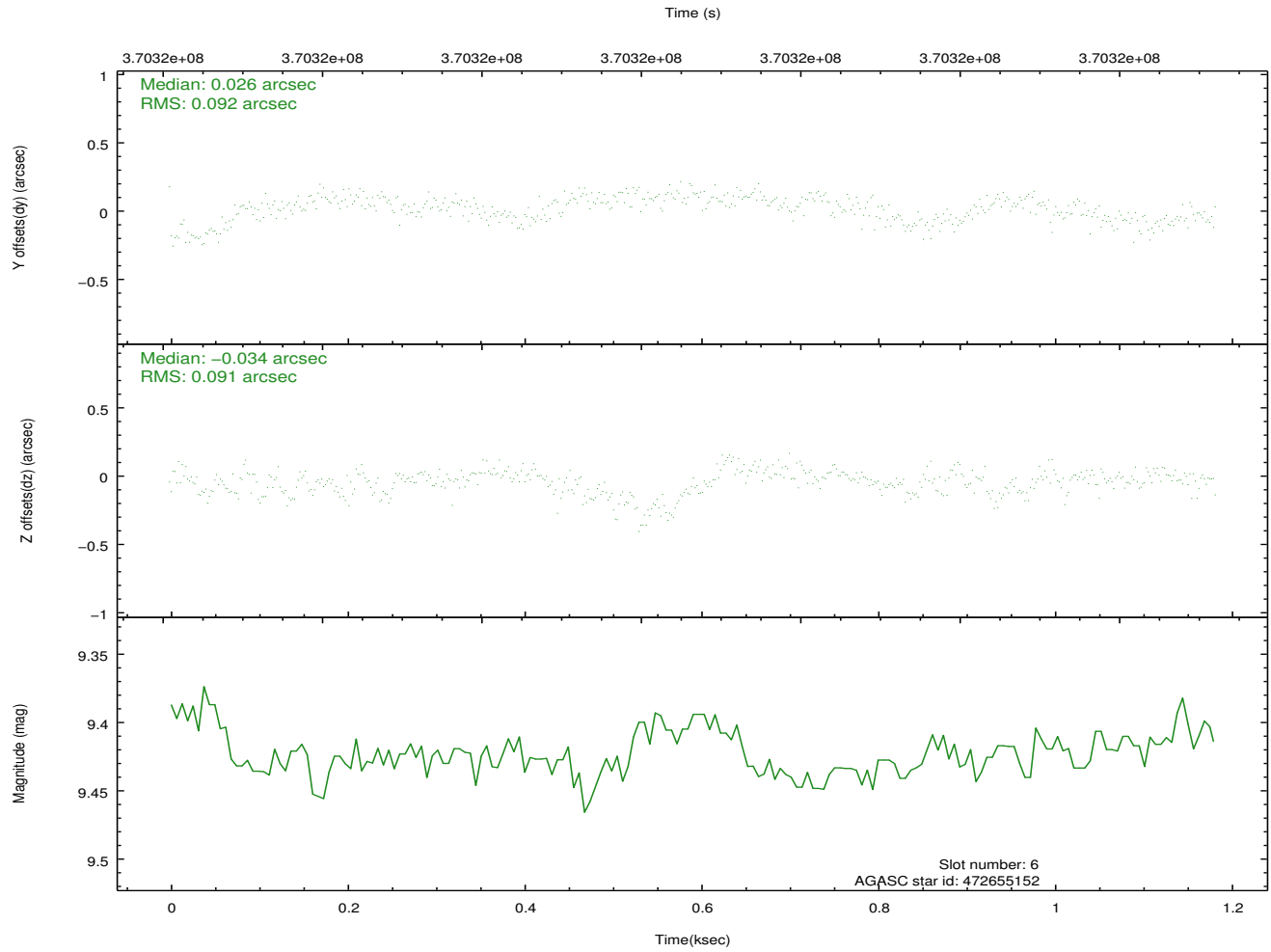
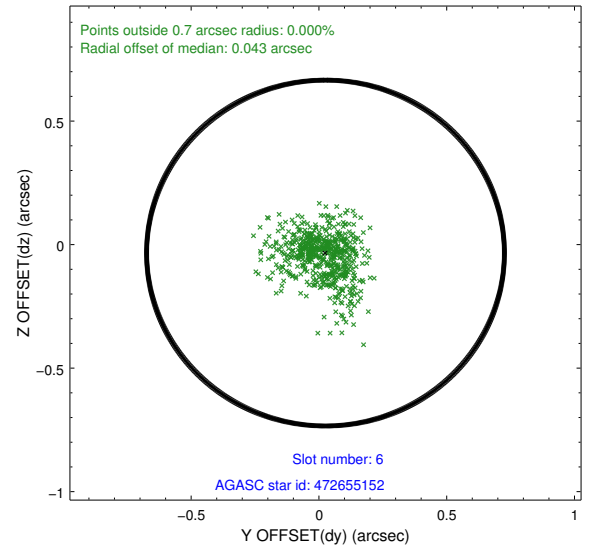
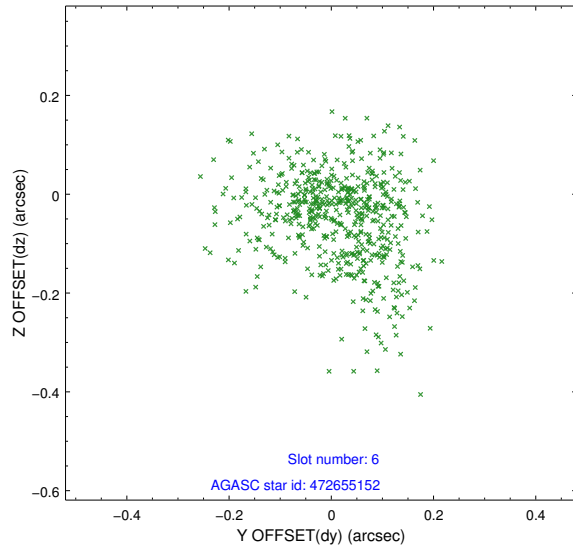
2.4.2 Slot 4



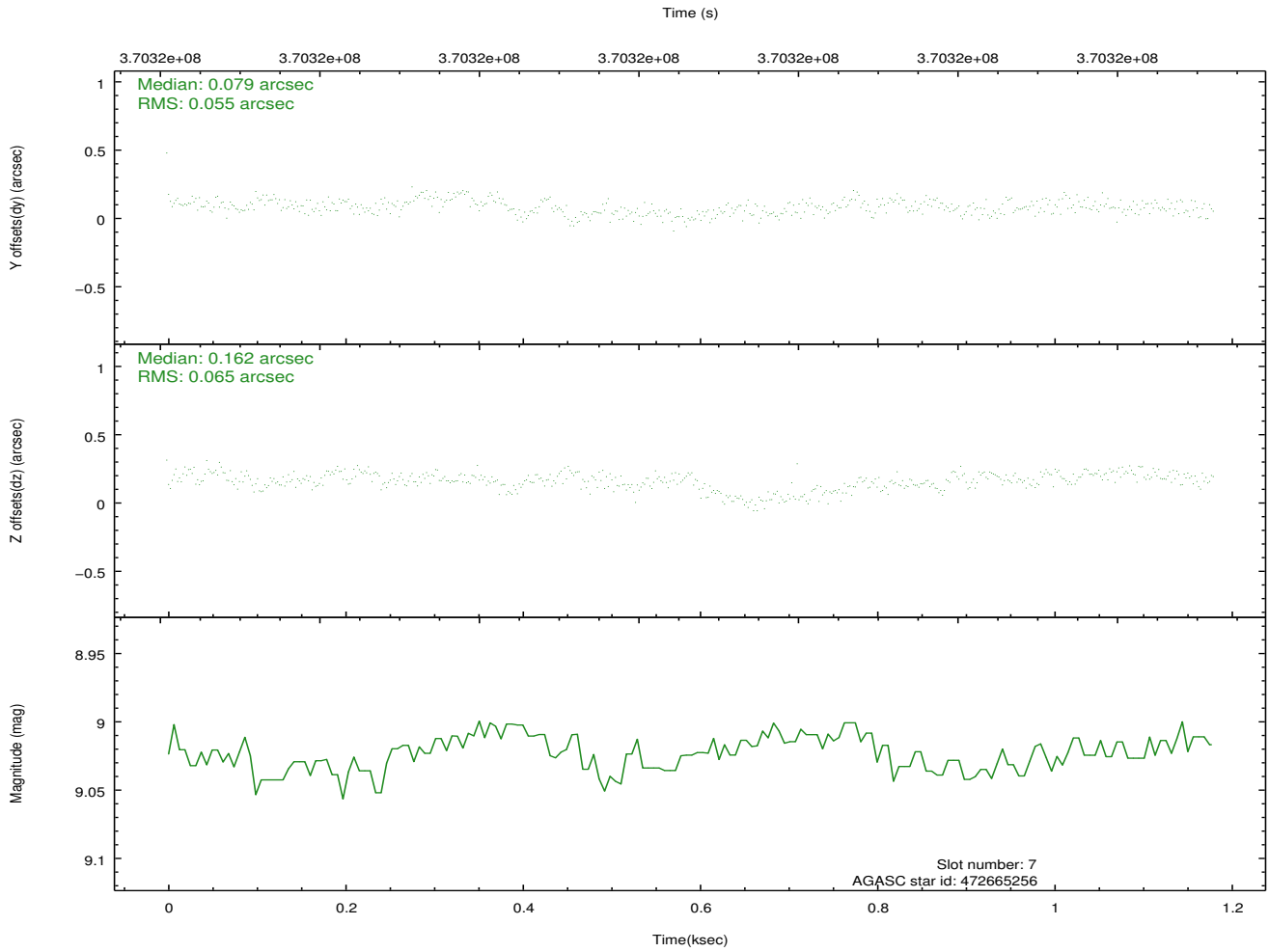
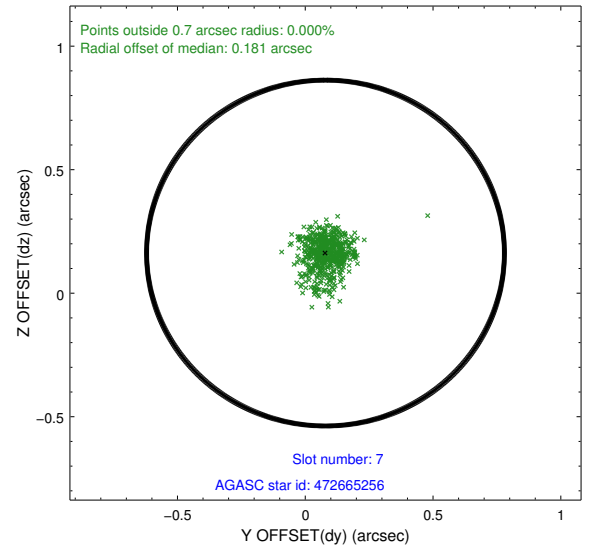
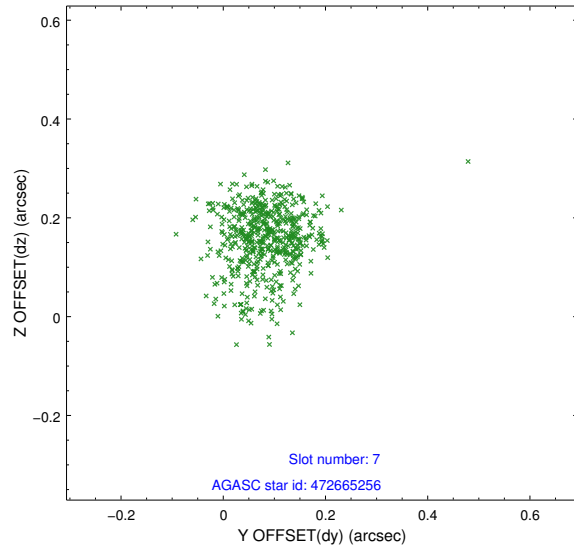
2.4.3 Slot 5



2.4.4 Slot 6

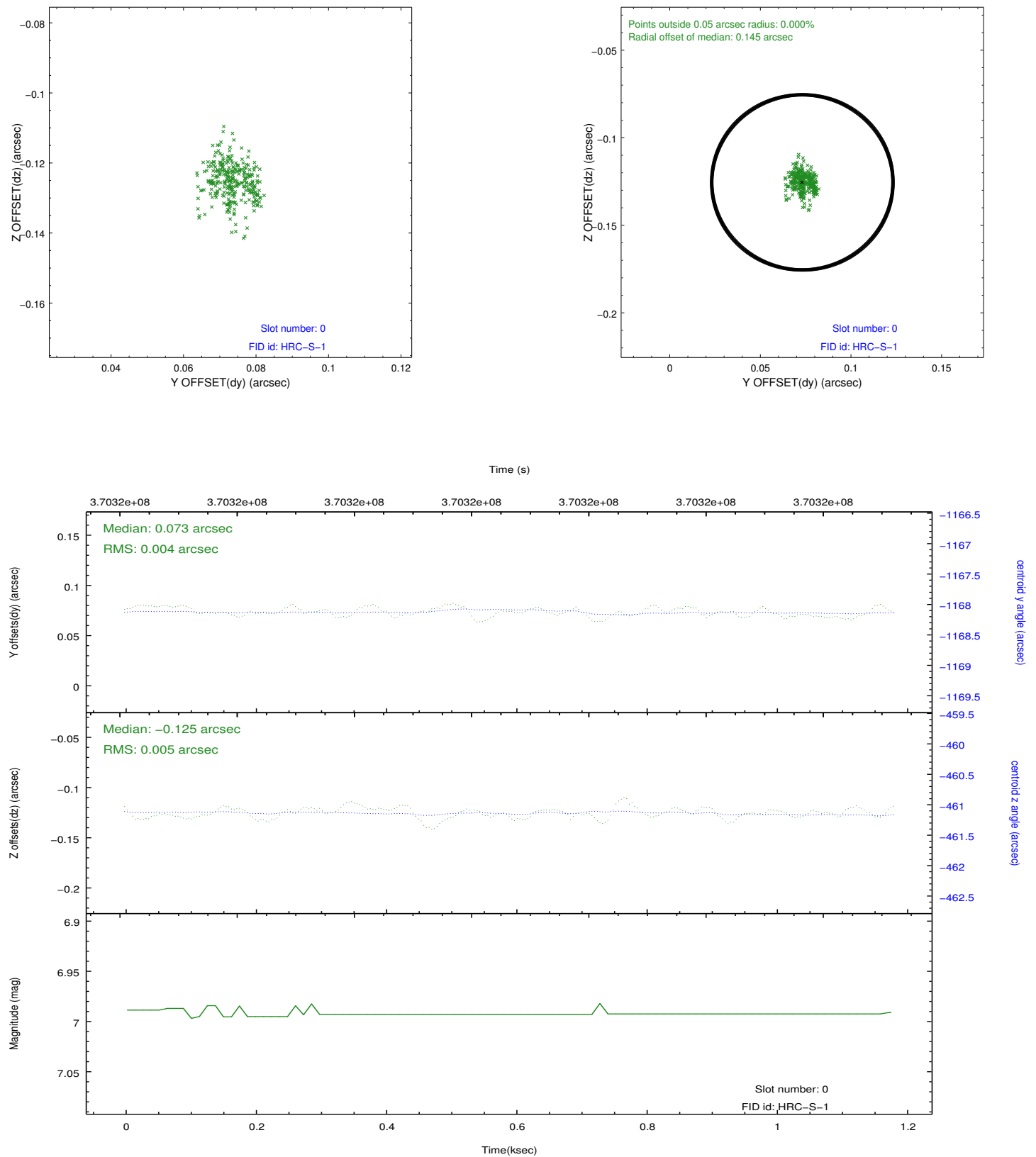


2.4.5 Slot 7

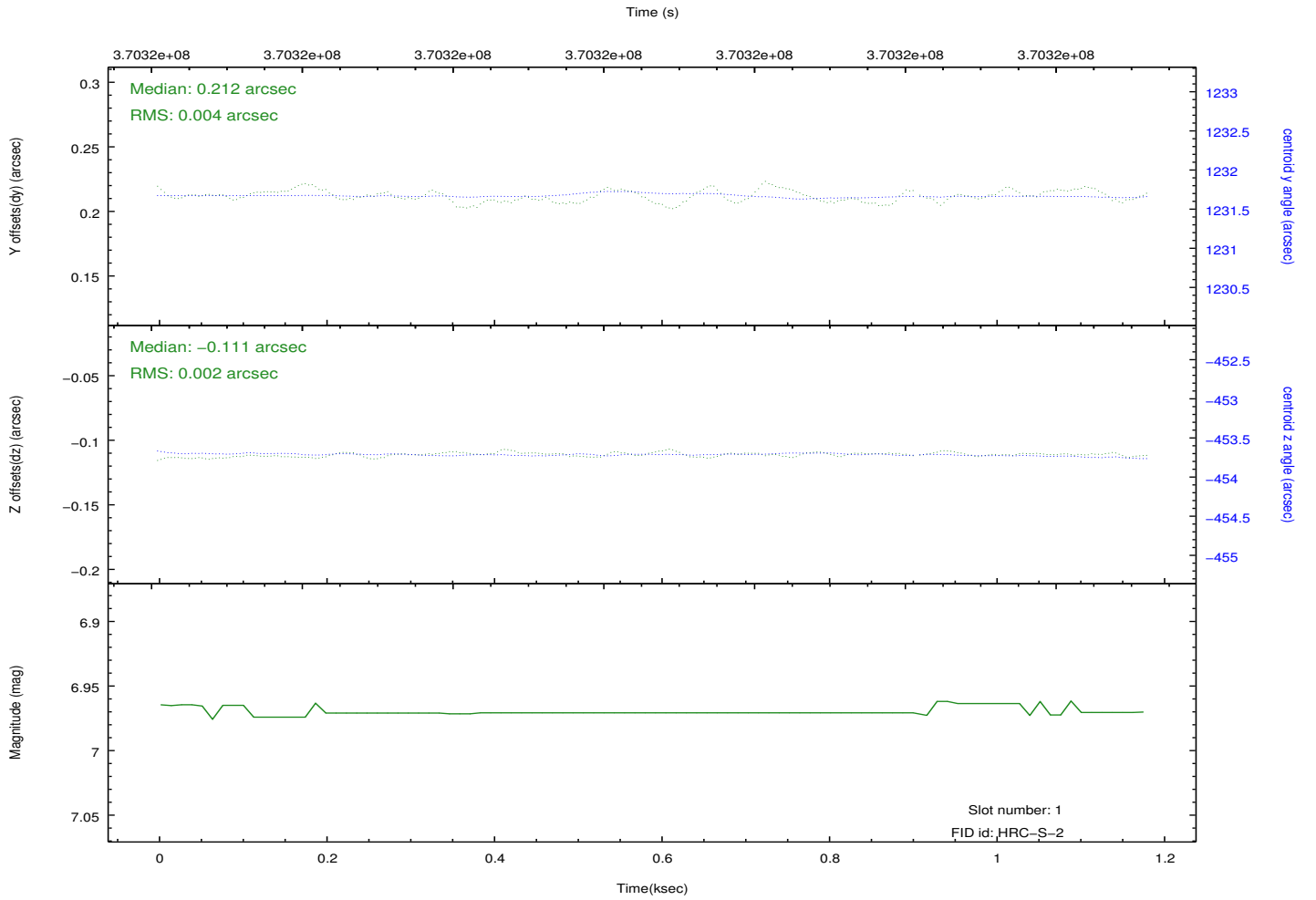
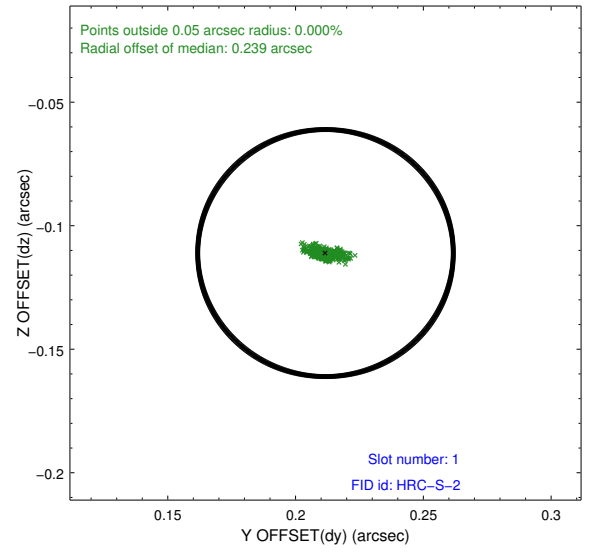
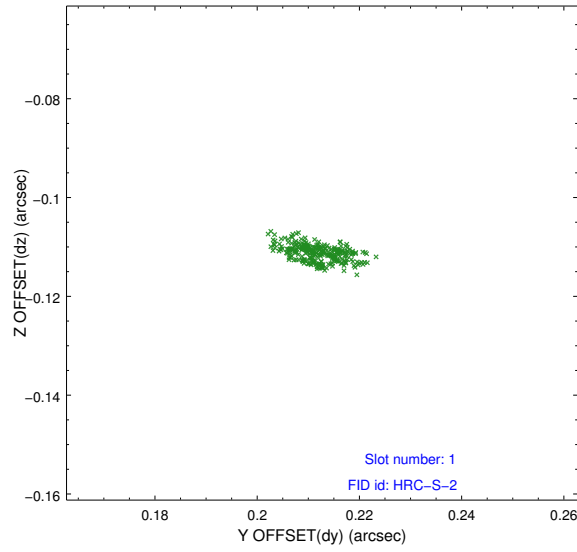


2.5 FID Slots

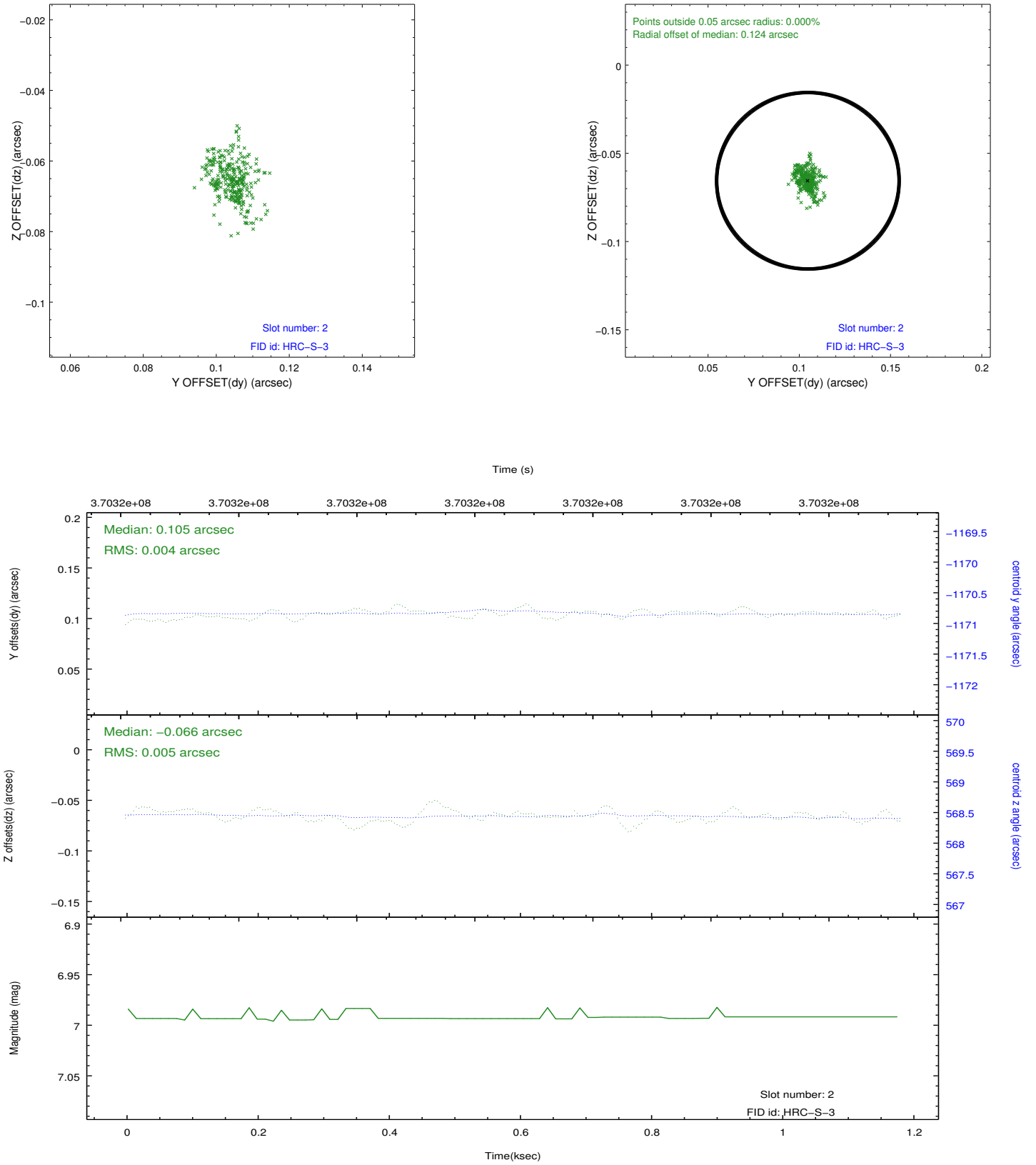
2.5.1 Slot 0



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) | 2012.08.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1820813093781 |

A.2 Comments