

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17365 - L2 Version 1
Chandra X-Ray Center

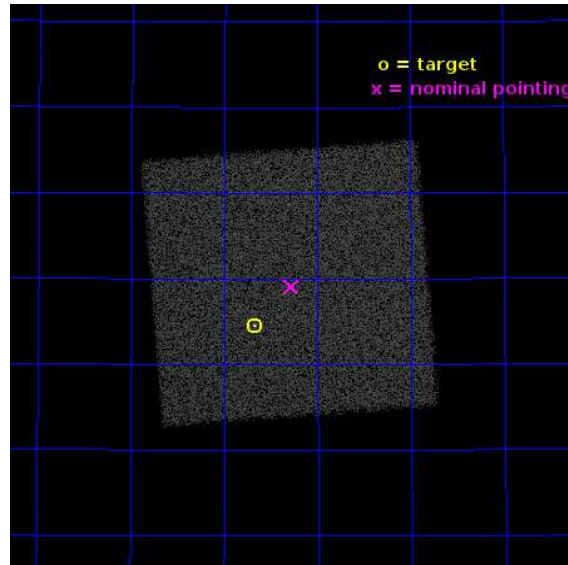
L2 Processing Date : Sep 27 2015

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1 Front

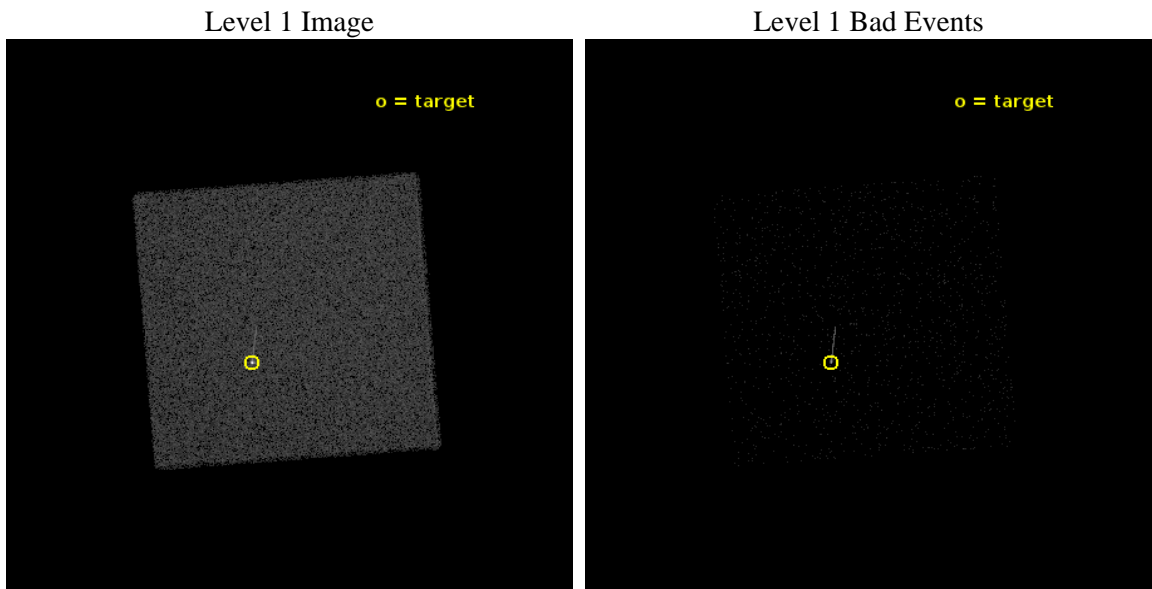
| | | |
|----------|--|---------------------------------------|
| seq_num | 291238 | Sequence number |
| obs_id | 17365 | Observation id |
| title | AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.07022898562 | Nominal RA [deg] |
| dec_nom | 45.817736289276 | Nominal Dec [deg] |
| roll_nom | 220.52118032329 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 1184.1313169003 | [s] |
| livetime | 1173.5418187959 | Ontime multiplied by DTCOR |
| l2events | 87165 | 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 | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.4.1 | Processing system revision | ontime | 1184.1313169003 | [s] |
| caldbver | 4.6.8 | | l1events | 147263 | Number of level 1 events |
| date | 2015-09-27T05:24:37 | Date and time of file creation | | | |
| revision | 1 | Processing version of data | | | |

2.1.3 Events

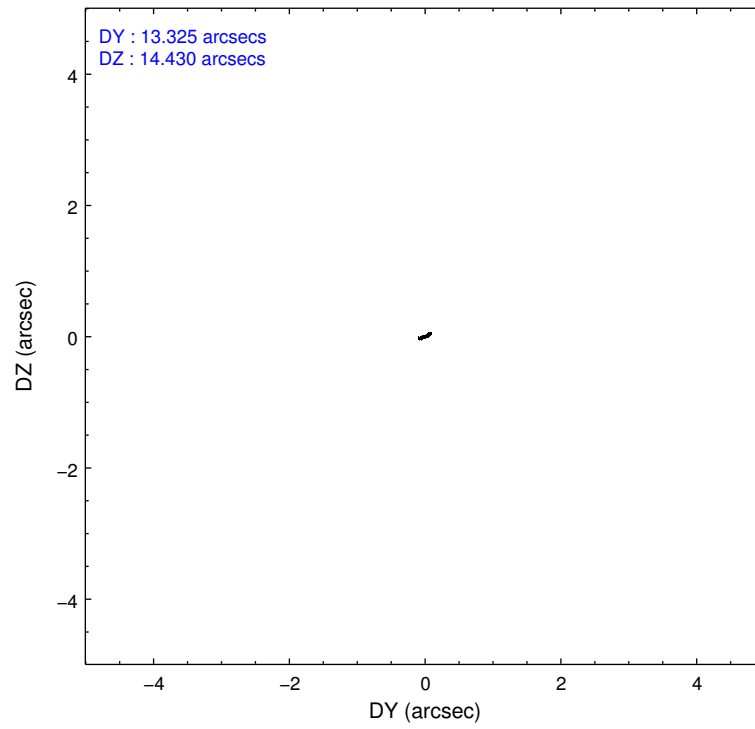
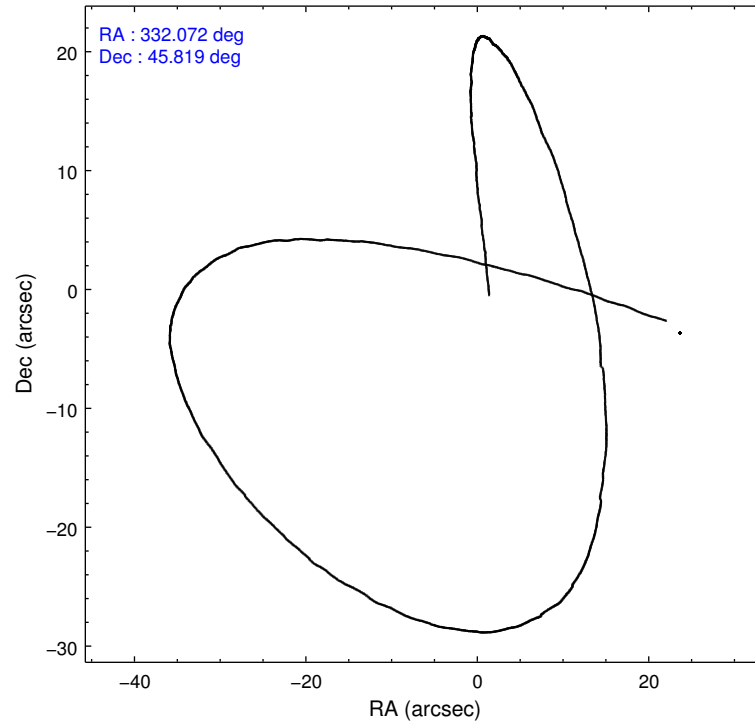
Level 1 Events

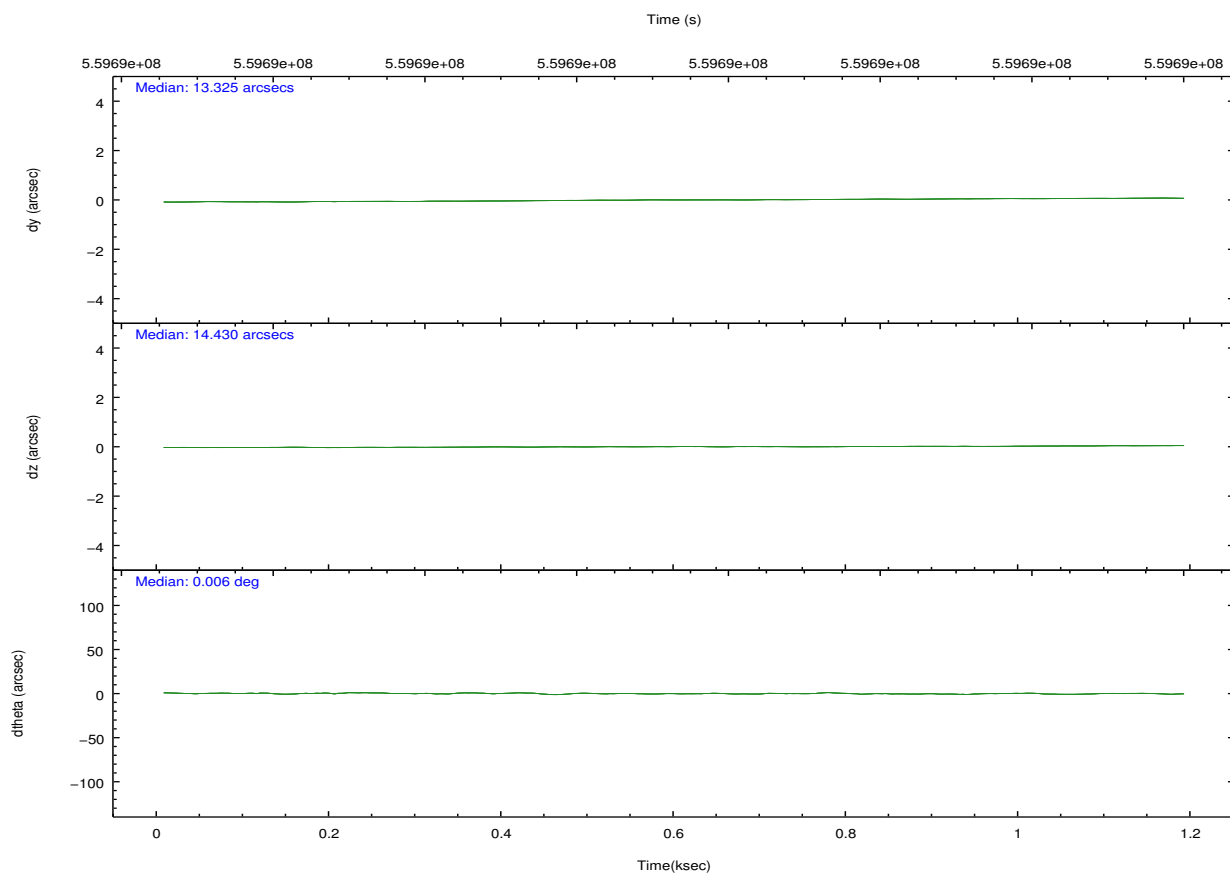
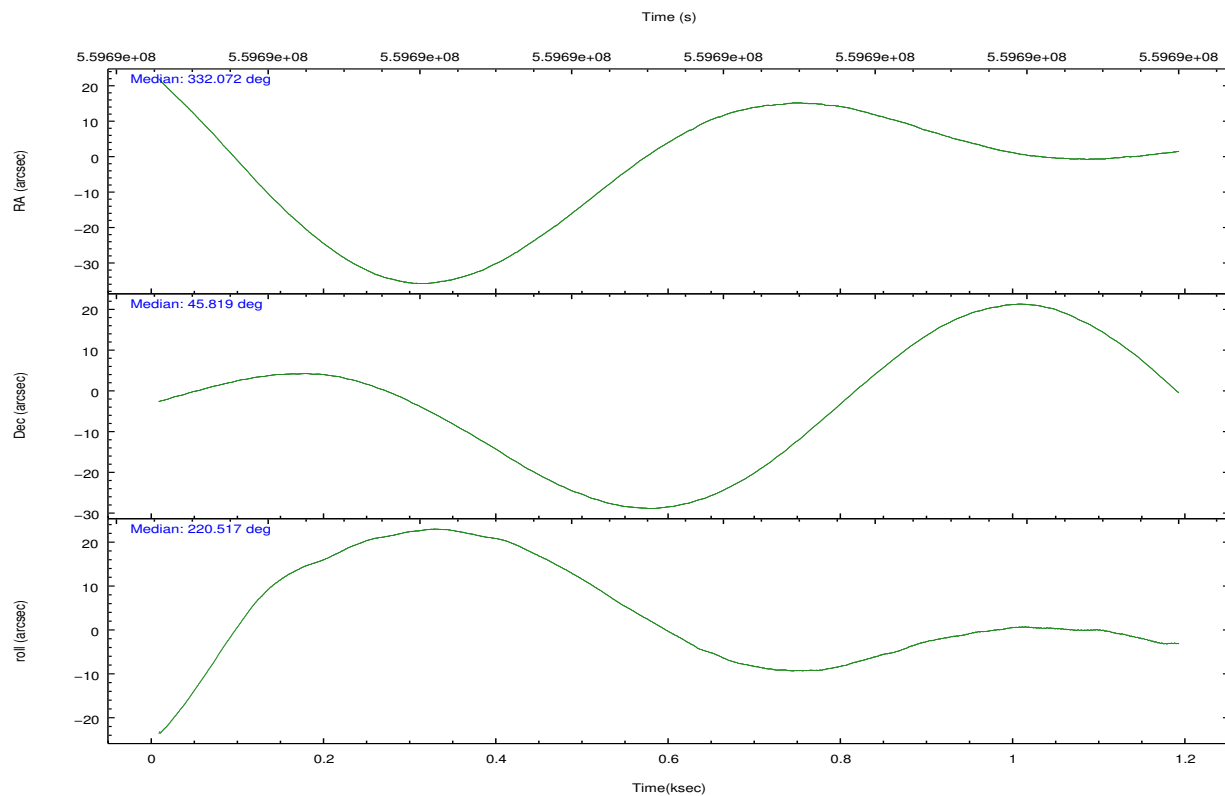
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 147263 |
| rejected events | 31846 |
| rejected % | 21% |

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 | 332.083159 | 332.0702289856237 | | | |
| [deg] Pointing Dec | 45.842744 | 45.81773628927609 | | | |
| [deg] Pointing Roll | 220.607380 | 220.5211803232874 | | | |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 | | | |
| [mm] SIM defocus | 0 | 0.001426264420575141 | | | |
| [mm] SIM translation stage pos | 126.985494 | 126.9829799899862 | | | |
| [mm] SIM translation stage offset | 0 | 0.002508901615314585 | | | |
| [s] Observation start time (MET) | 559690112.184000 | 559689736.84462 | | | |
| Observation start date | 2015-09-26T21:27:24 | 2015-09-26T21:22:16 | | | |
| [s] Observation end time (MET) | 559691112.184000 | 559691246.66971 | | | |
| Observation end date | 2015-09-26T21:44:04 | 2015-09-26T21:47:26 | | | |

2.3 Aspect



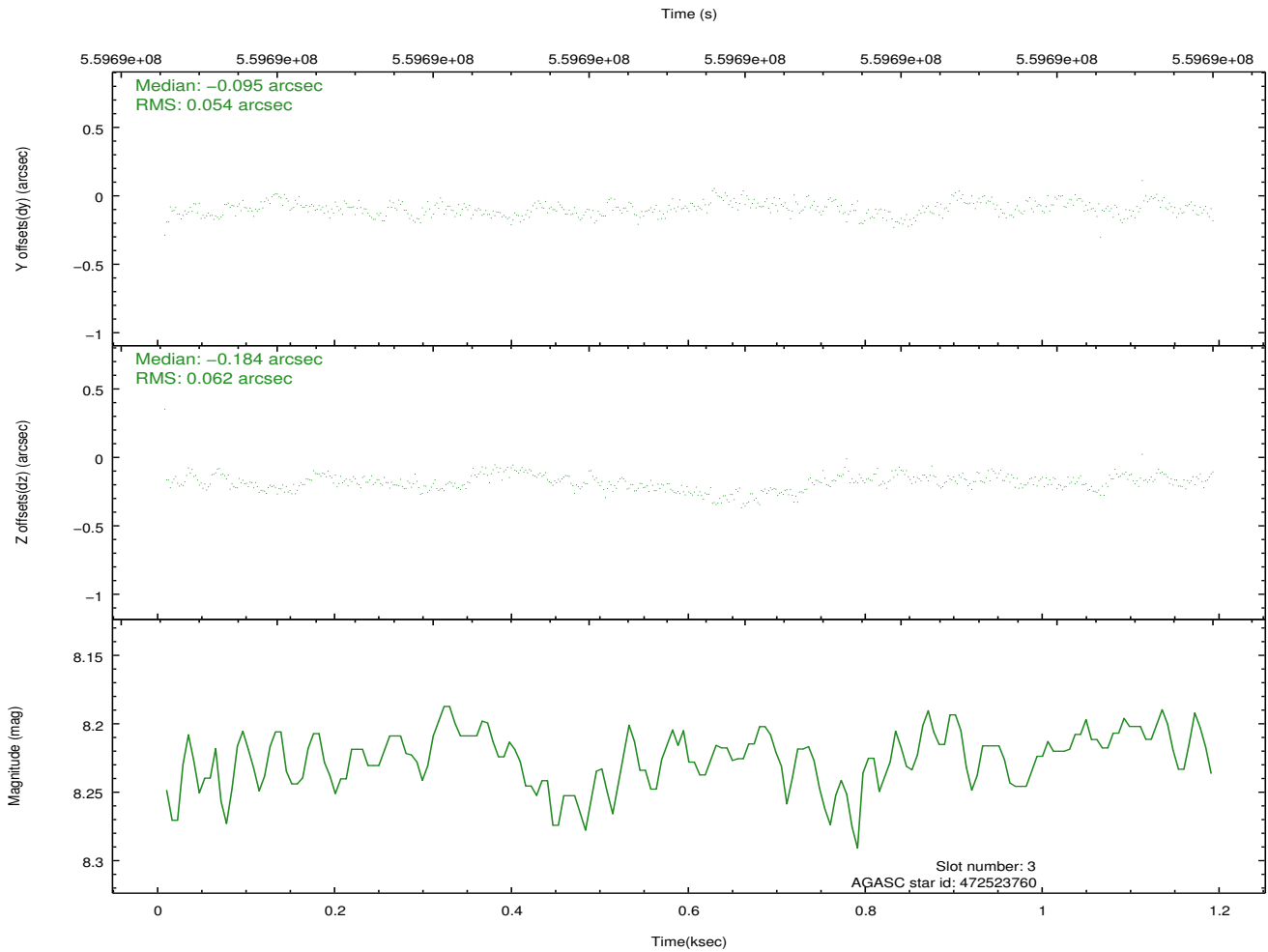
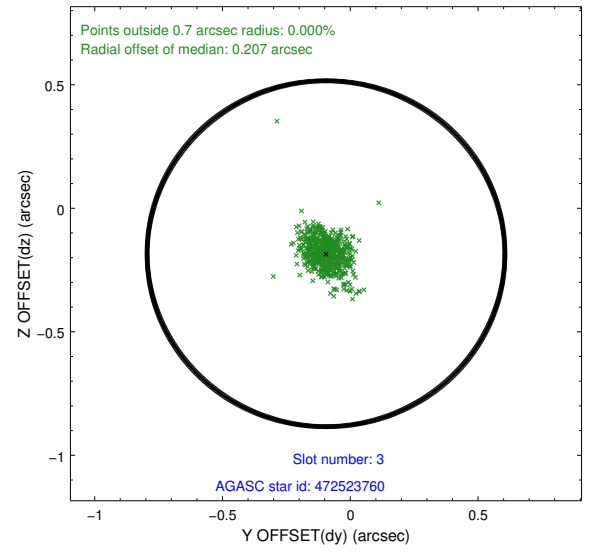
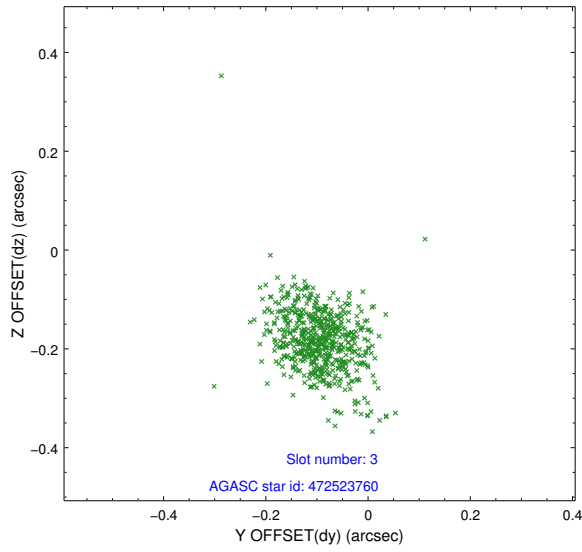


Slot Statistics

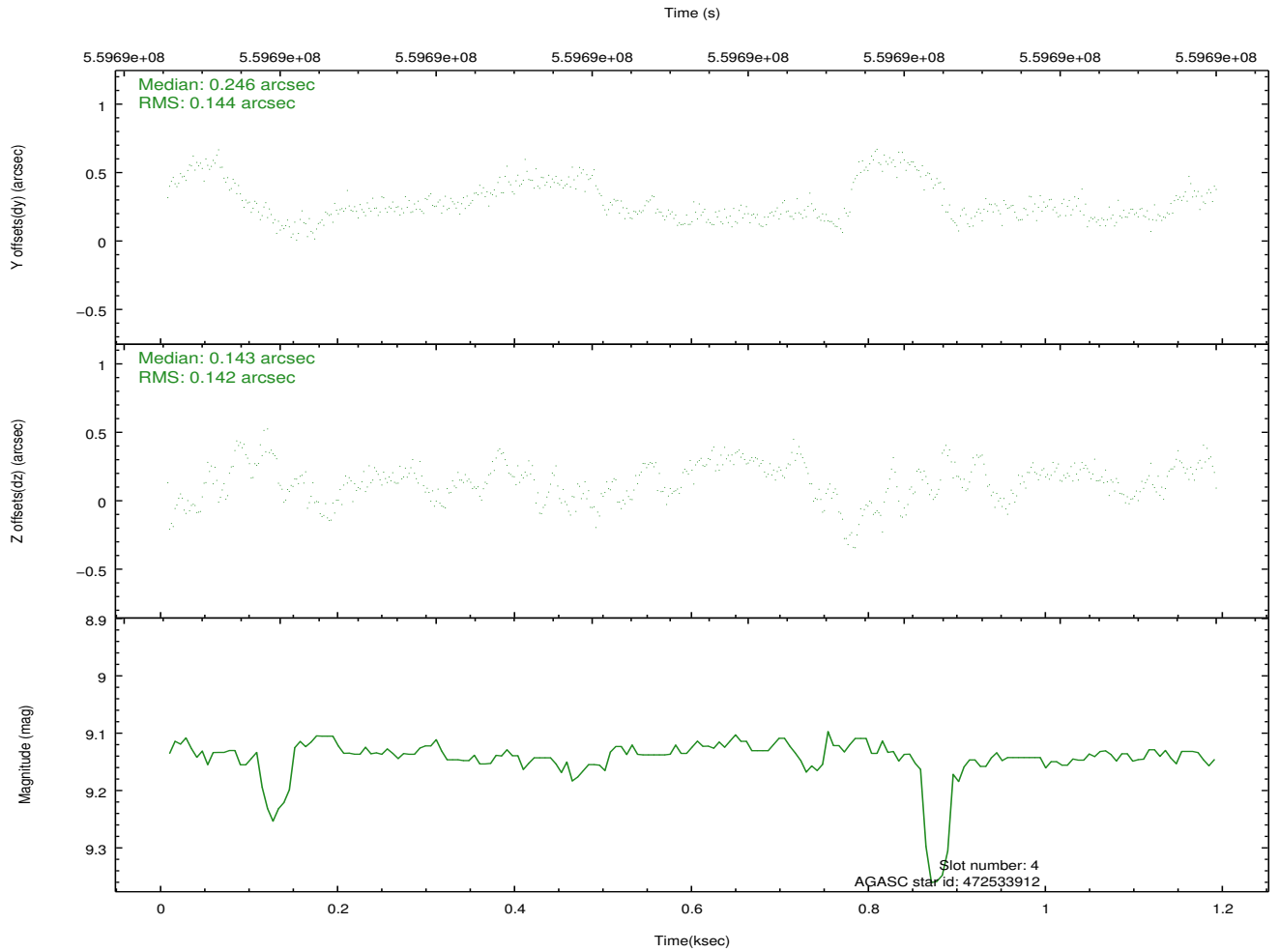
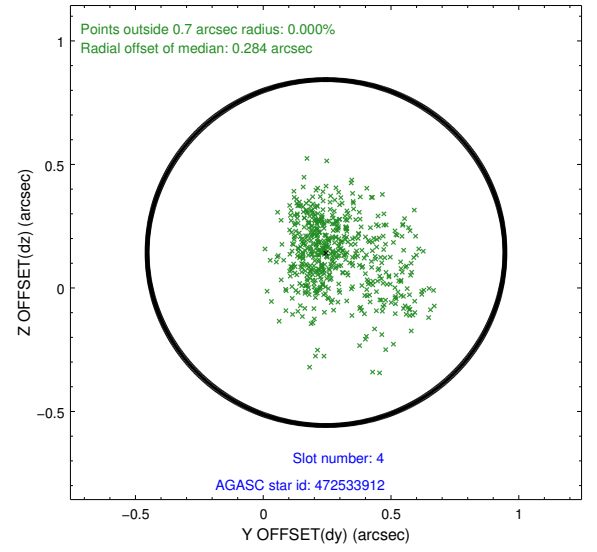
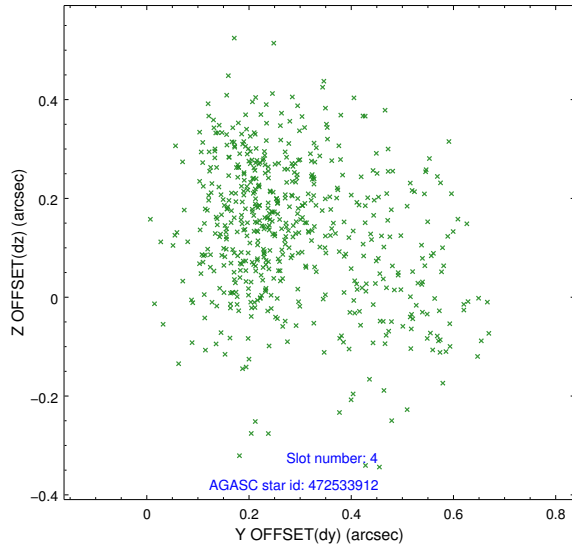
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | | HRC-I-2 | 7.03 | 289 | 0.127 | -0.132 | 0.007 | 0.011 | 0.000000 | 0.000000 | 843.74 | -1304.16 |
| 1 | FID | | HRC-I-3 | 7.09 | 289 | -0.273 | 0.070 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1194.95 | 997.58 |
| 2 | FID | | HRC-I-4 | 7.01 | 289 | 0.265 | -0.025 | 0.006 | 0.009 | 0.000000 | 0.000000 | 1269.81 | 1003.15 |
| 3 | GUIDE | used | 472523760 | 8.22 | 579 | -0.095 | -0.184 | 0.080 | 0.140 | 331.645363 | 45.403260 | 1869.30 | 482.53 |
| 4 | GUIDE | used | 472533912 | 9.14 | 579 | 0.246 | 0.143 | 0.206 | 0.386 | 331.791136 | 46.368695 | -677.58 | -1905.70 |
| 5 | GUIDE | used | 472535576 | 7.86 | 579 | -0.184 | 0.188 | 0.090 | 0.143 | 331.438373 | 46.291802 | 161.38 | -2275.28 |
| 6 | GUIDE | used | 472655152 | 9.40 | 578 | -0.065 | -0.059 | 0.160 | 0.278 | 332.504239 | 45.862991 | -849.13 | 629.83 |
| 7 | GUIDE | used | 472665256 | 9.00 | 578 | 0.052 | -0.075 | 0.113 | 0.180 | 332.808125 | 46.195041 | -2202.45 | 211.65 |

2.4 Star Slots

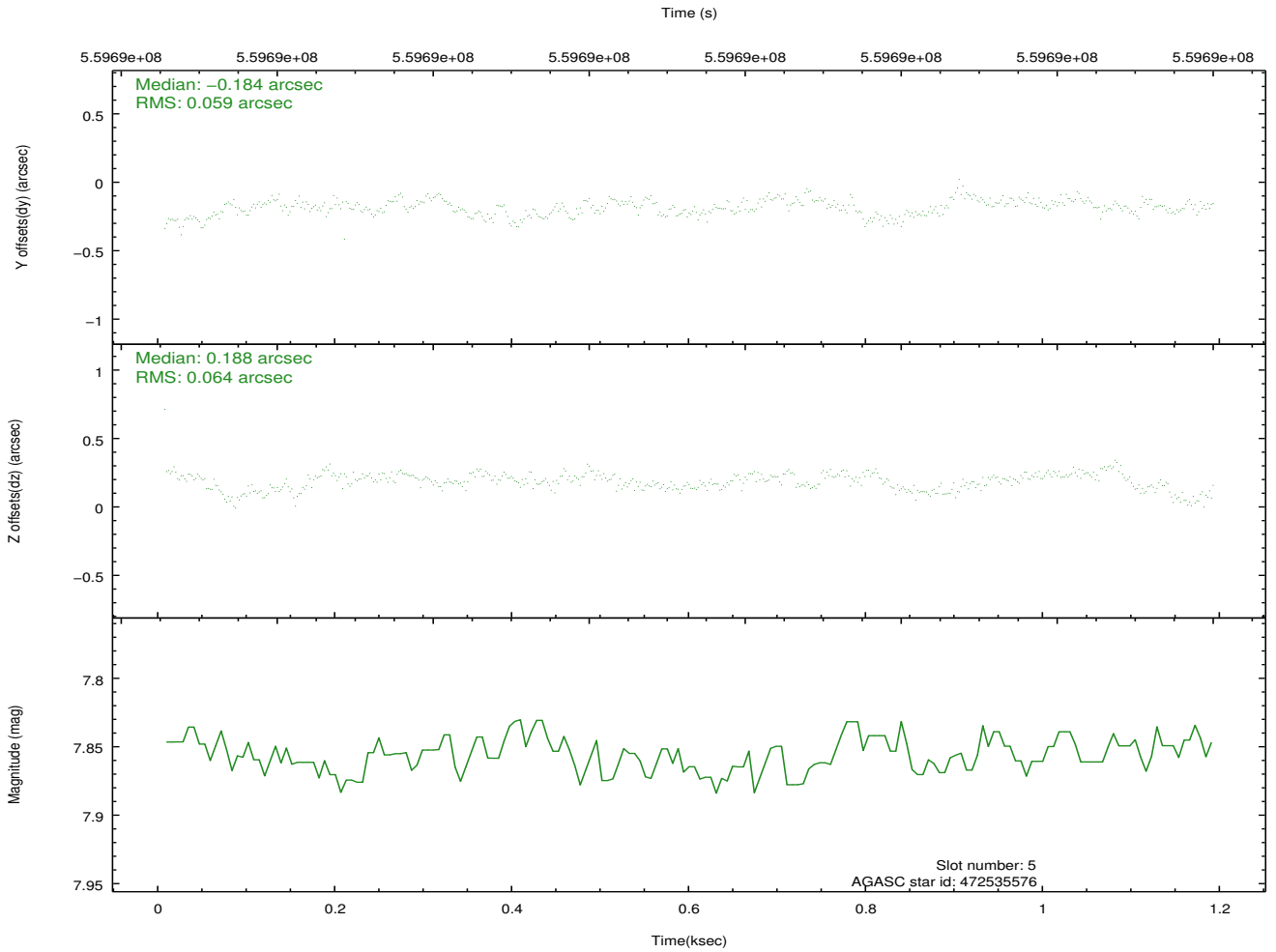
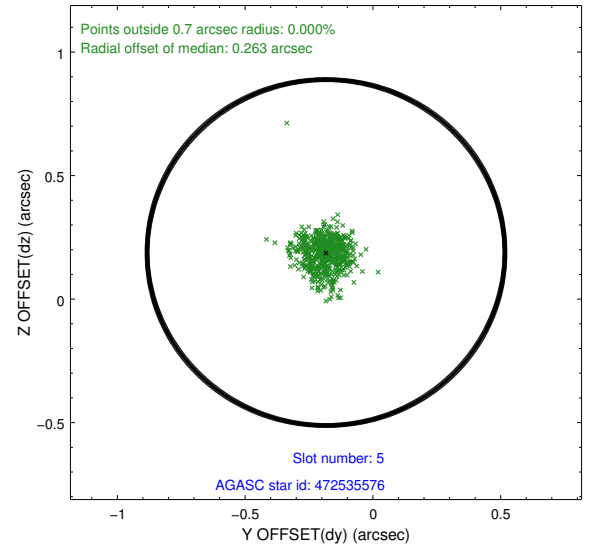
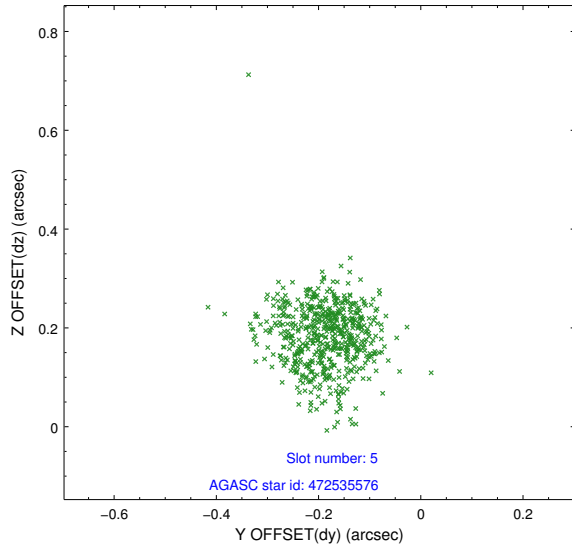
2.4.1 Slot 3



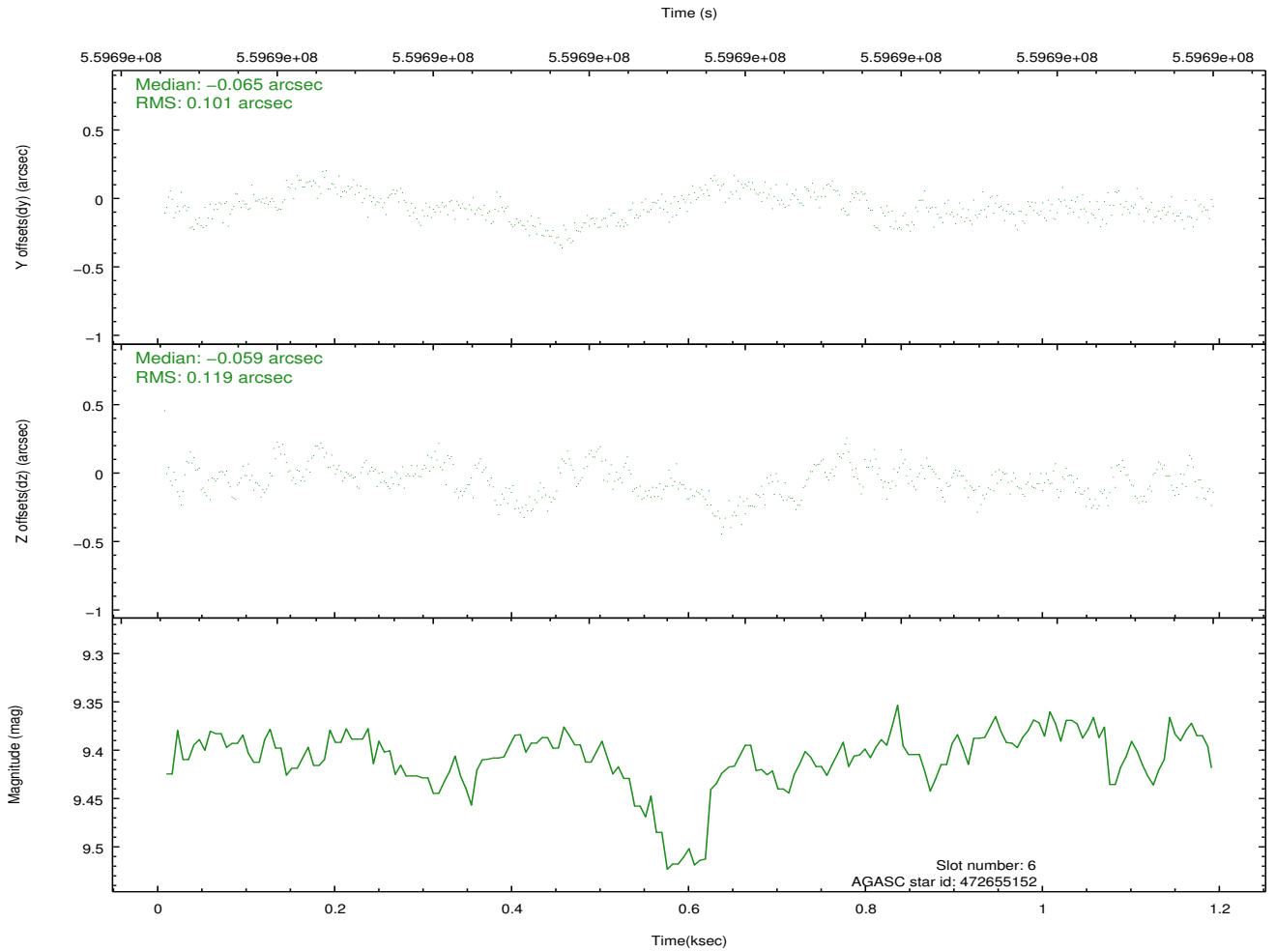
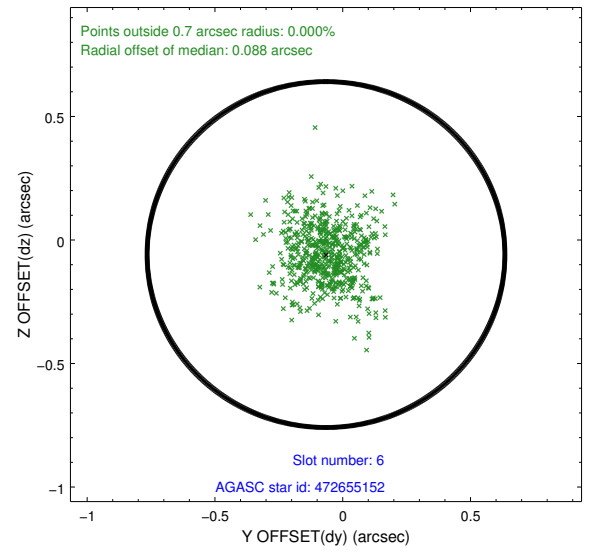
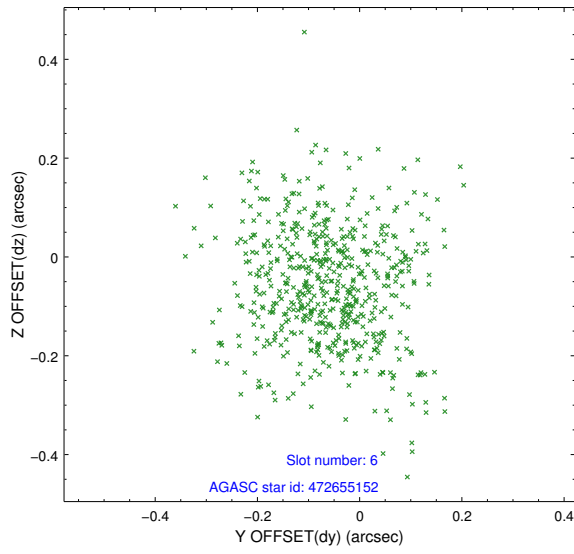
2.4.2 Slot 4



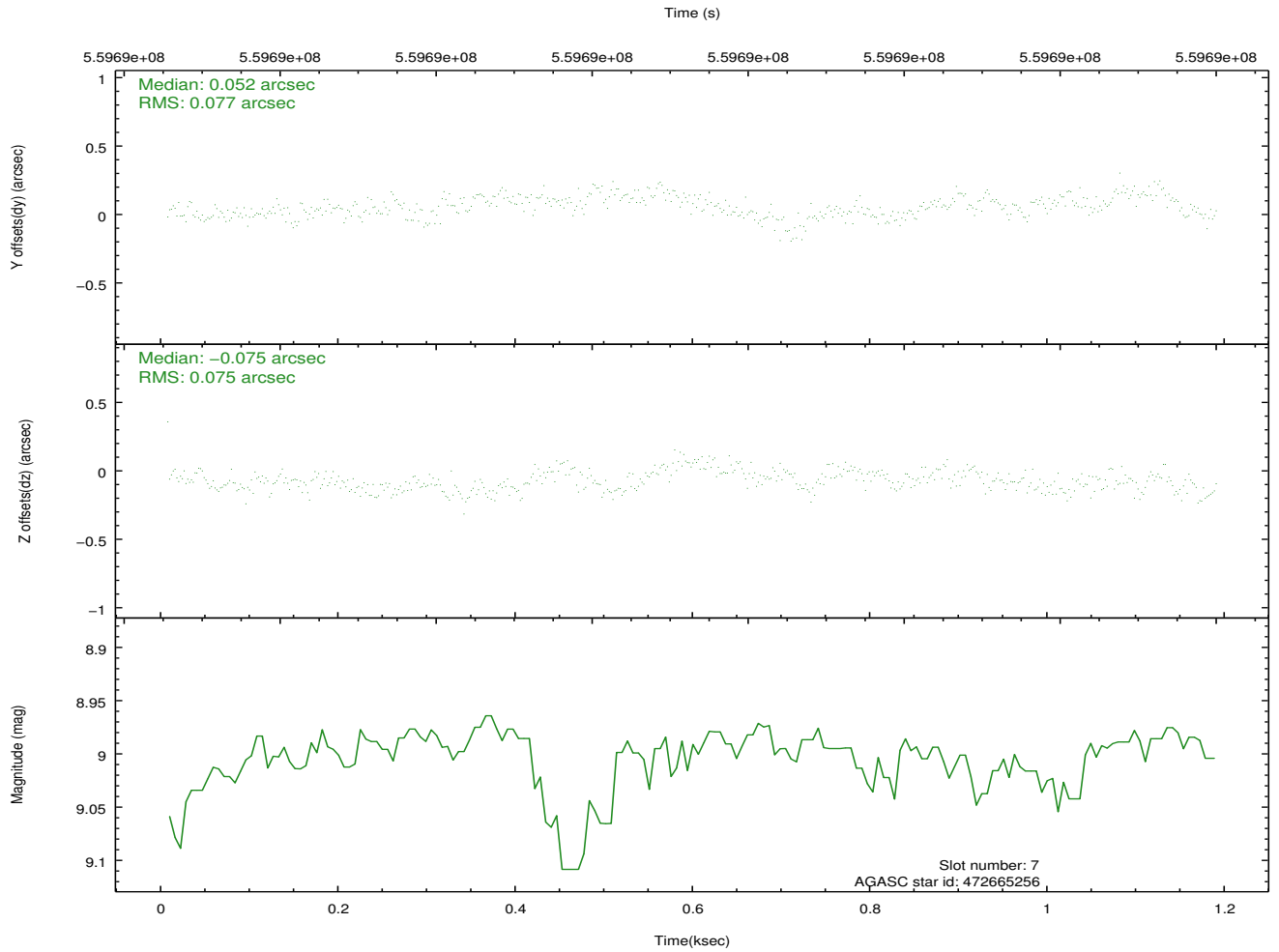
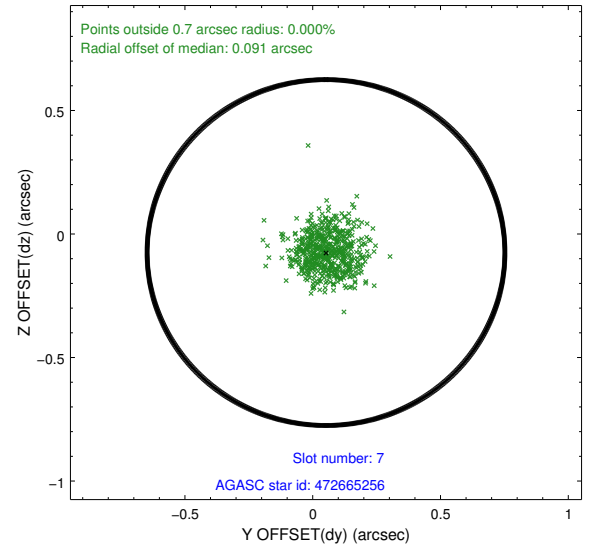
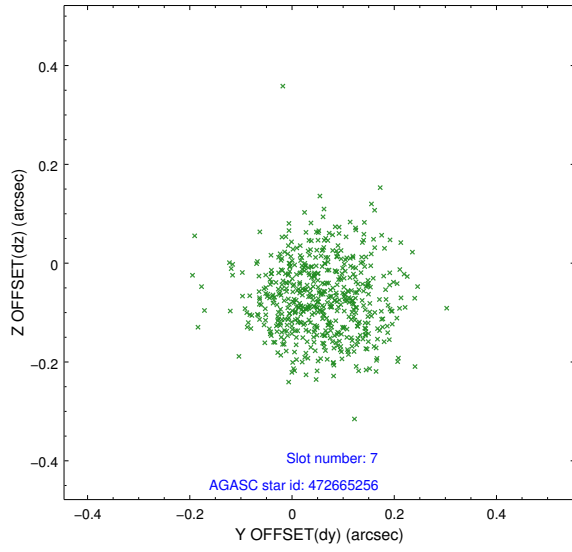
2.4.3 Slot 5



2.4.4 Slot 6

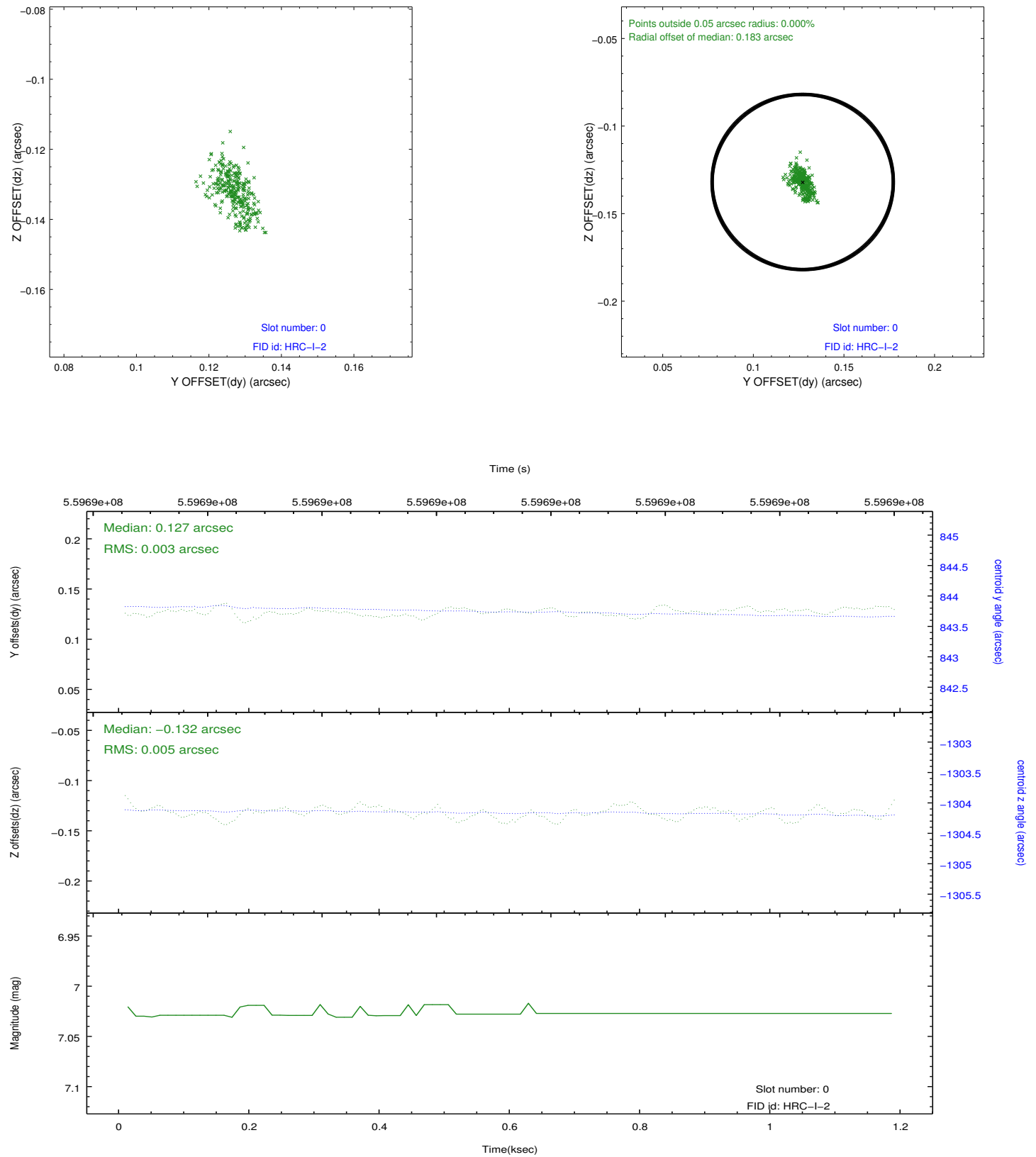


2.4.5 Slot 7

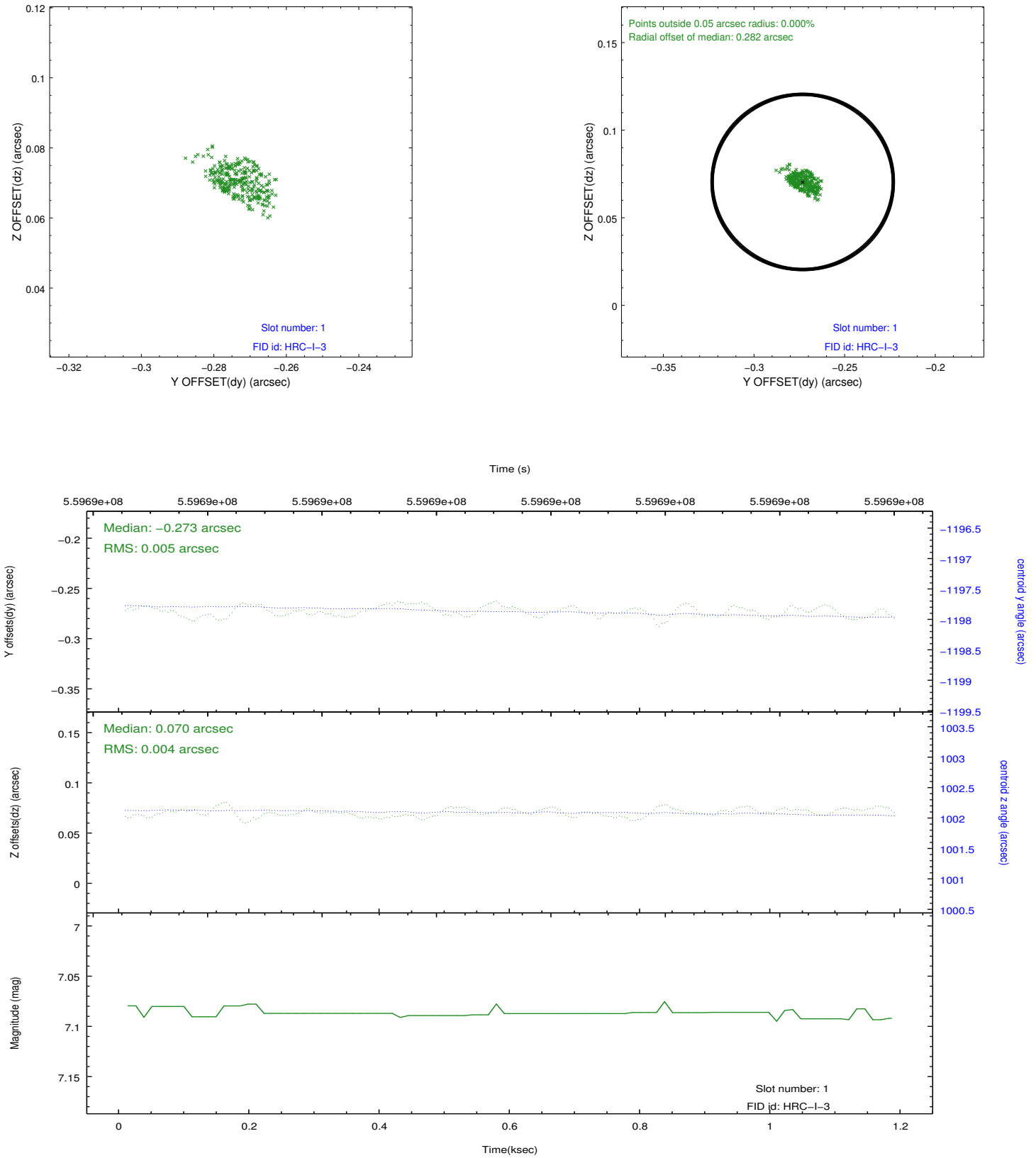


2.5 FID Slots

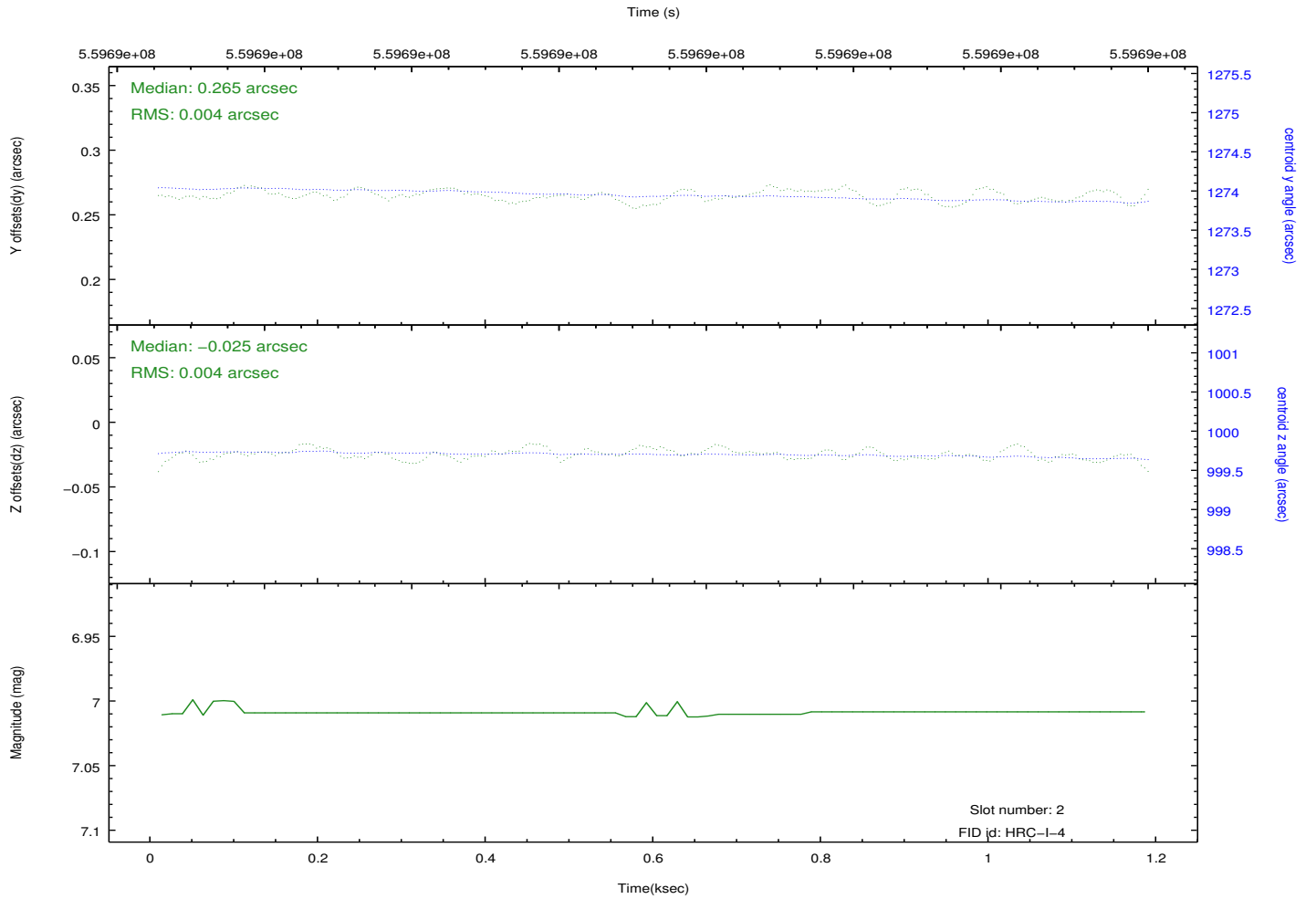
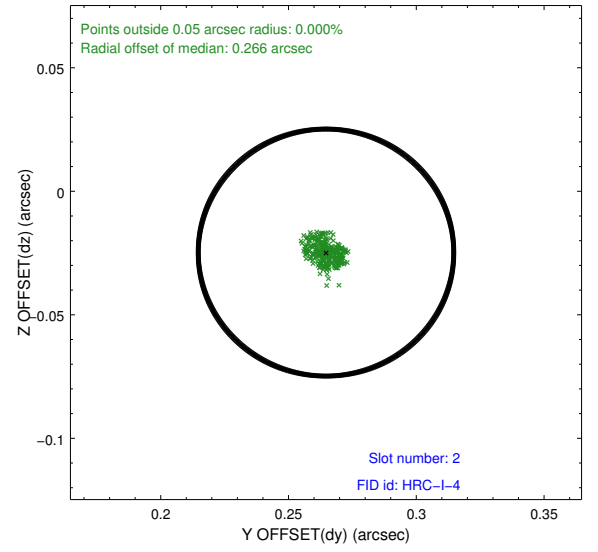
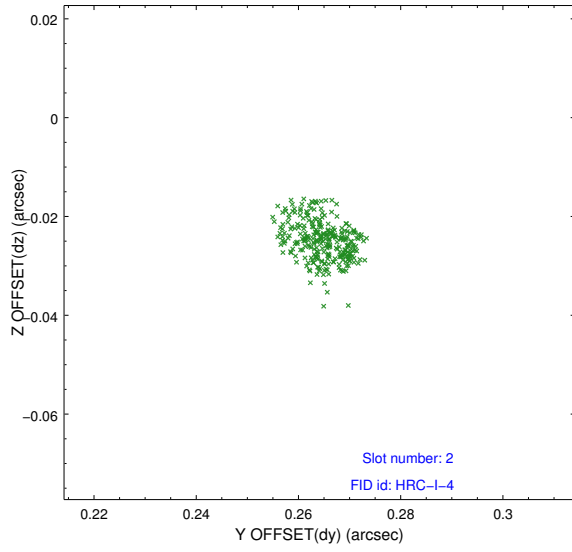
2.5.1 Slot 0



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) | 2015.09.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1841313169003 |

A.2 Comments