

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16700 - L2 Version 1
Chandra X-Ray Center

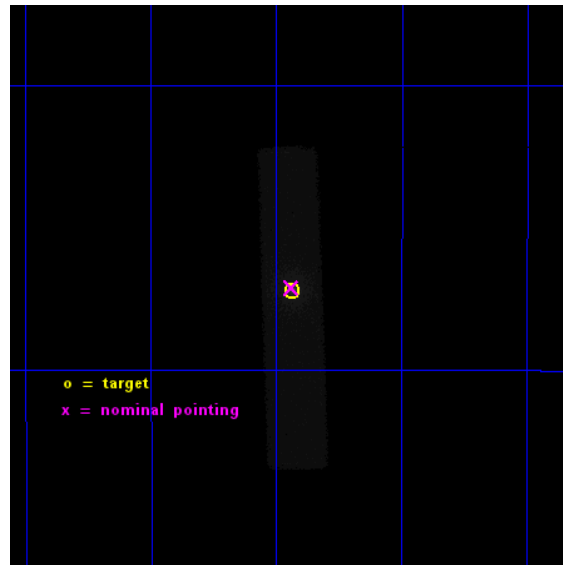
L2 Processing Date : Mar 1 2015

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1 Front

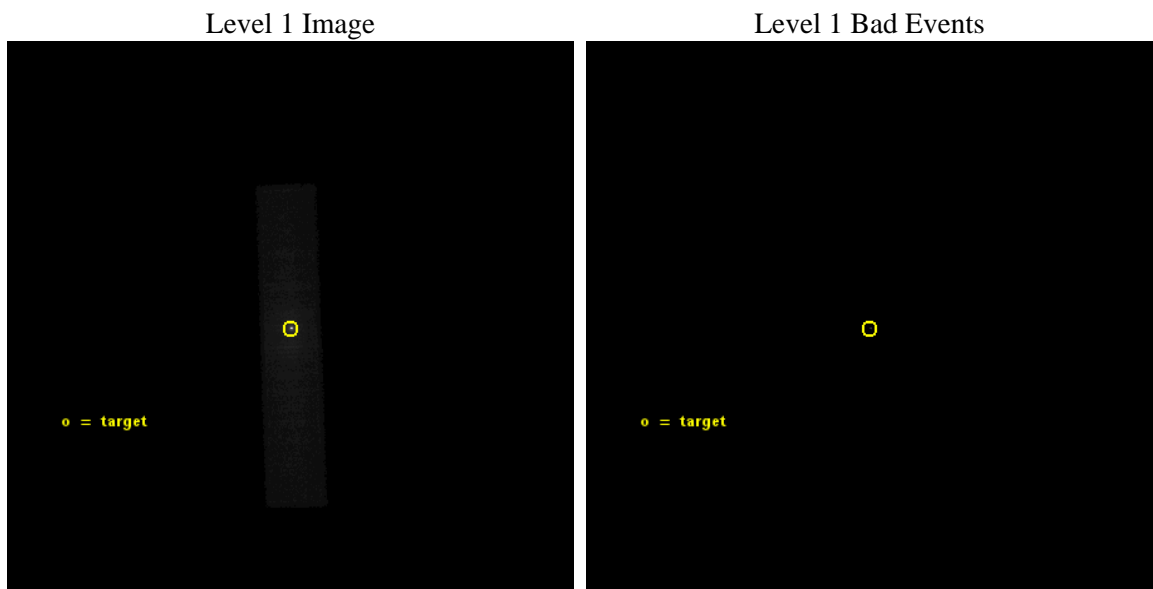
| | | |
|----------|--------------------------------------|---------------------------------------|
| seq_num | 401622 | Sequence number |
| obs_id | 16700 | Observation id |
| title | Transient LMXBs in Globular Clusters | Proposal title |
| observer | Dr. David Pooley | Principal investigator |
| object | NGC 6440 | Source name |
| ra_targ | 267.219583 | Observer's specified target RA [deg] |
| dec_targ | -20.36025 | Observer's specified target Dec [deg] |
| ra_nom | 267.21978862706 | Nominal RA [deg] |
| dec_nom | -20.355478539152 | Nominal Dec [deg] |
| roll_nom | 87.964553739475 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 10140.581807494 | [s] |
| livetime | 10054.71337337 | Ontime multiplied by DTCOR |
| l2events | 1067390 | 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 | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.3.3 | Processing system revision | ontime | 10140.581817508 | [s] |
| caldsver | 4.6.7 | | l1events | 1260533 | Number of level 1 events |
| date | 2015-03-01T15:08:09 | Date and time of file creation | | | |
| revision | 1 | Processing version of data | | | |

2.1.3 Events

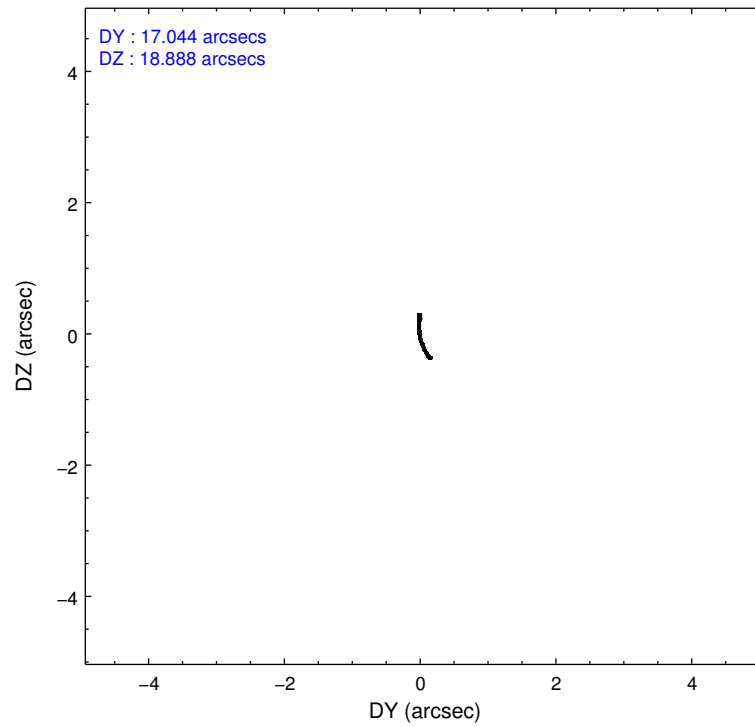
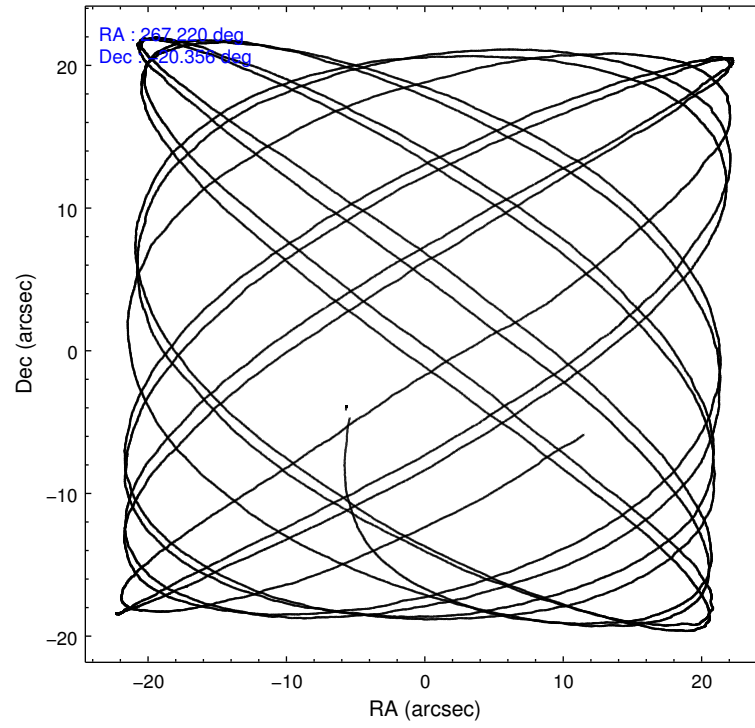
Level 1 Events

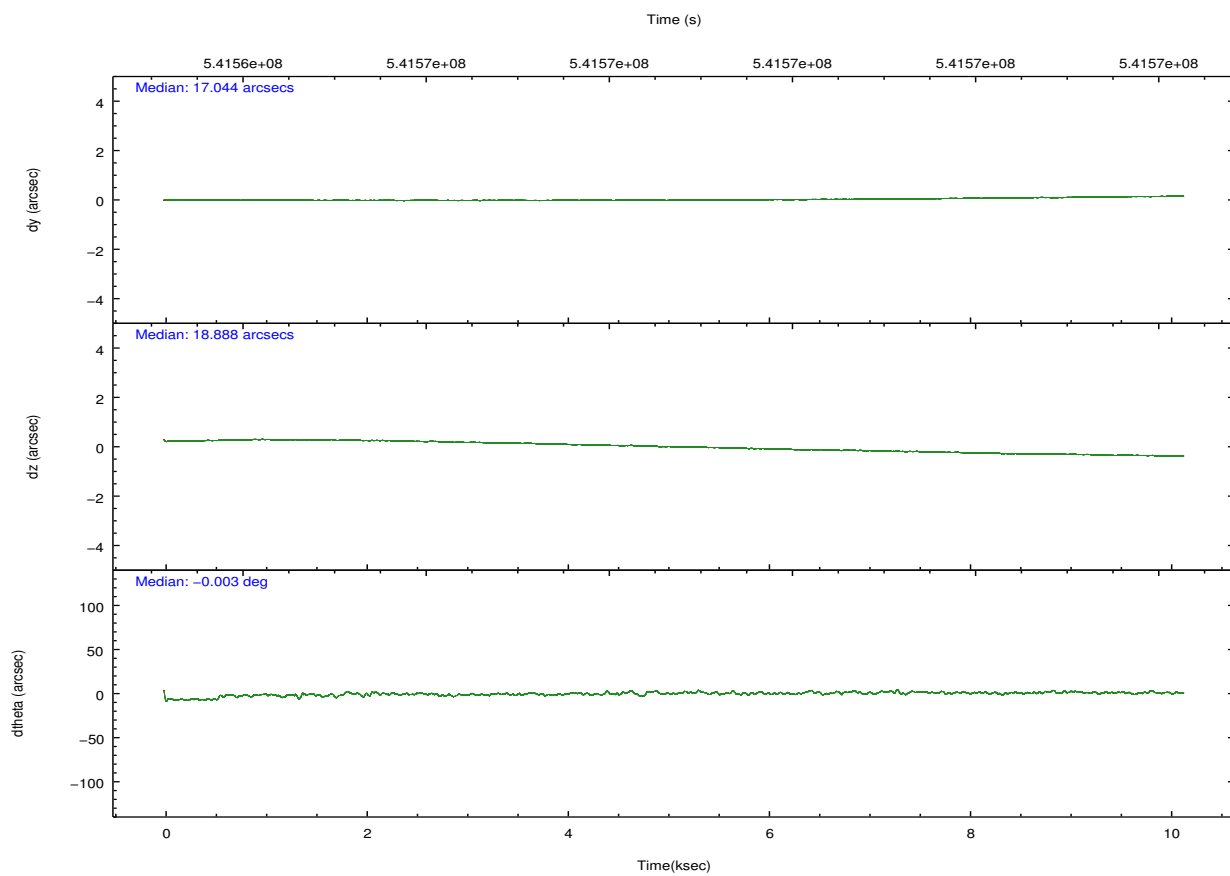
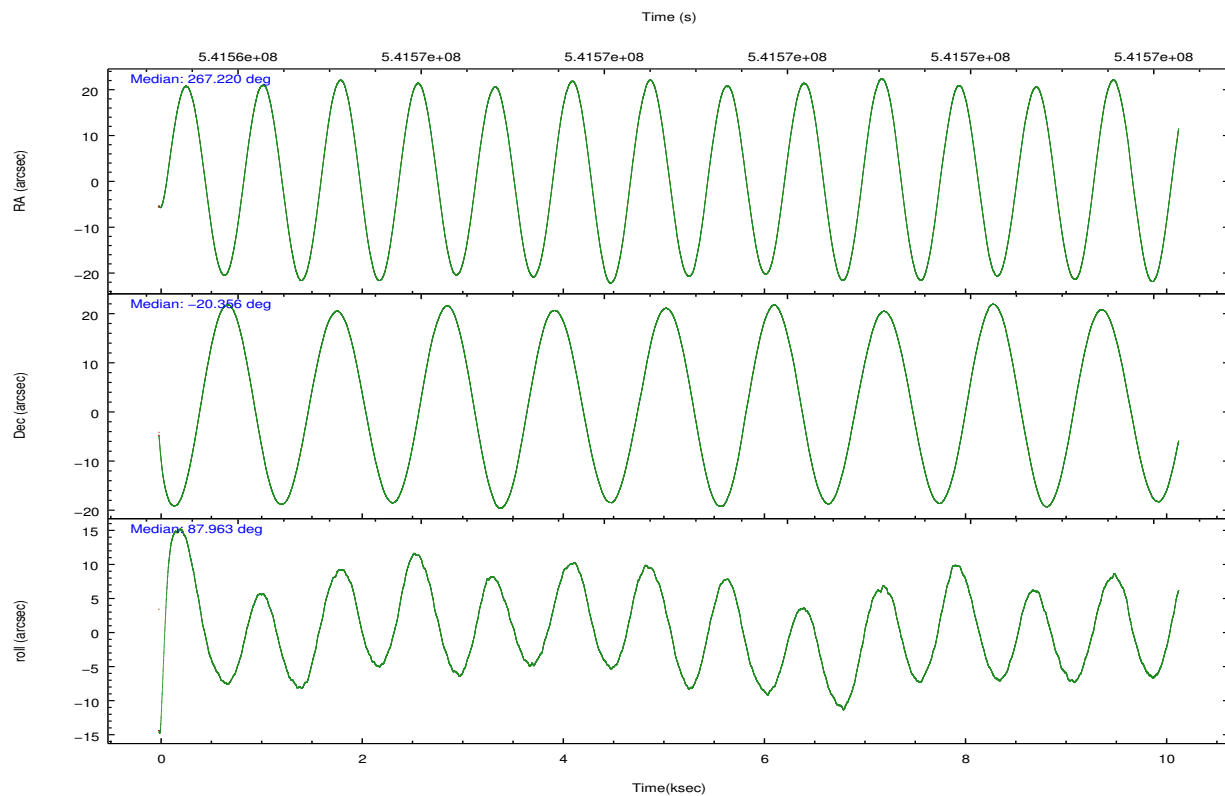
| | segment 1 | segment 2 | segment 3 |
|-----------------|--------------|--------------|--------------|
| level 1 events | 555 | 1259971 | 7 |
| rejected events | 43 | 67655 | 6 |
| rejected % | 7% | 5% | 85% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|-----------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-S | HRC-S | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 267.235538 | 267.2197886270646 | | | |
| [deg] Pointing Dec | -20.380144 | -20.35547853915185 | | | |
| [deg] Pointing Roll | 87.902737 | 87.96455373947504 | | | |
| [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) | 541563768.184000 | 541562608.4996099 | | | |
| Observation start date | 2015-03-01T02:21:41 | 2015-03-01T02:03:28 | | | |
| [s] Observation end time (MET) | 541573768.184000 | 541574774.73779 | | | |
| Observation end date | 2015-03-01T05:08:21 | 2015-03-01T05:26:14 | | | |

2.3 Aspect



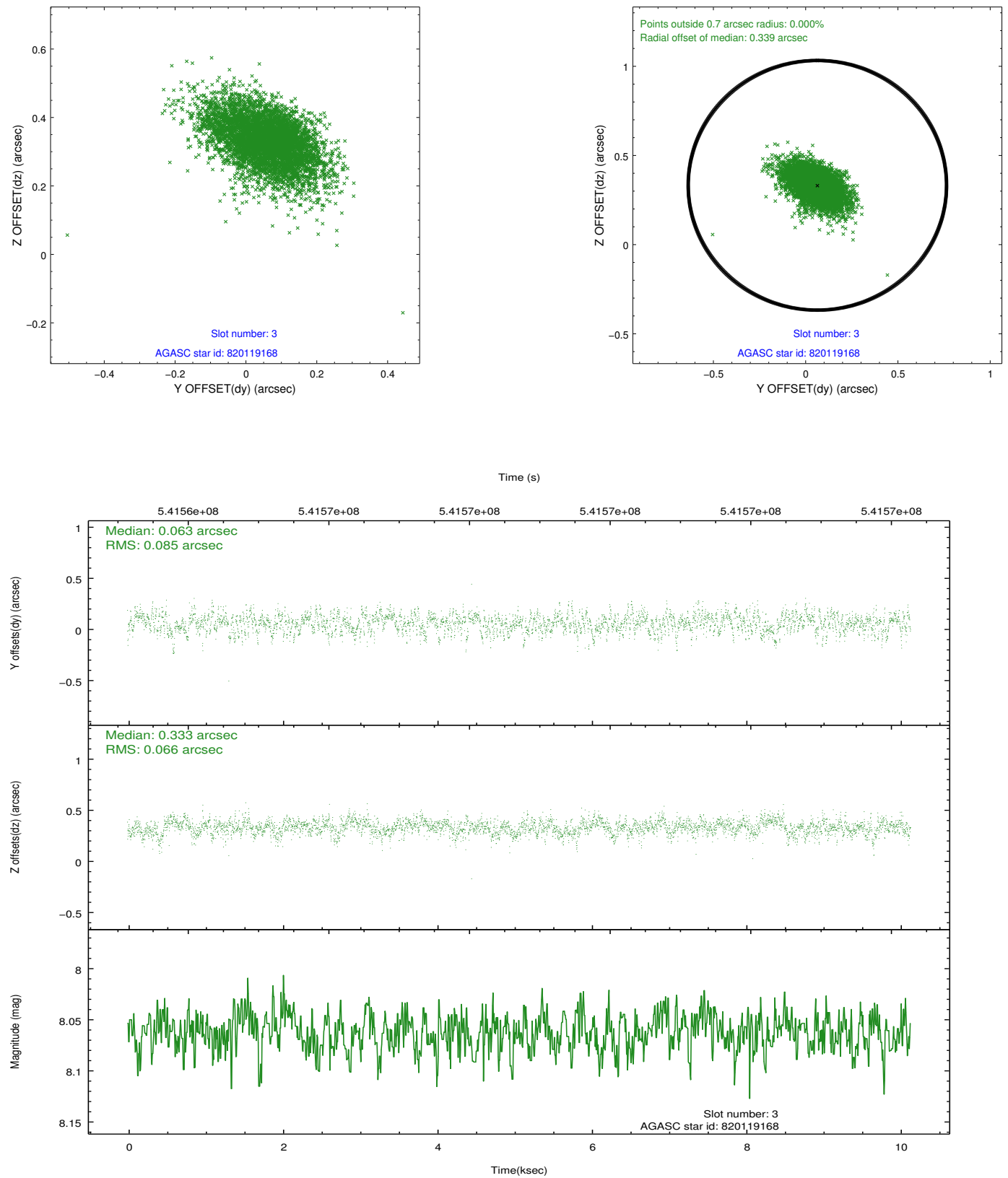


Slot Statistics

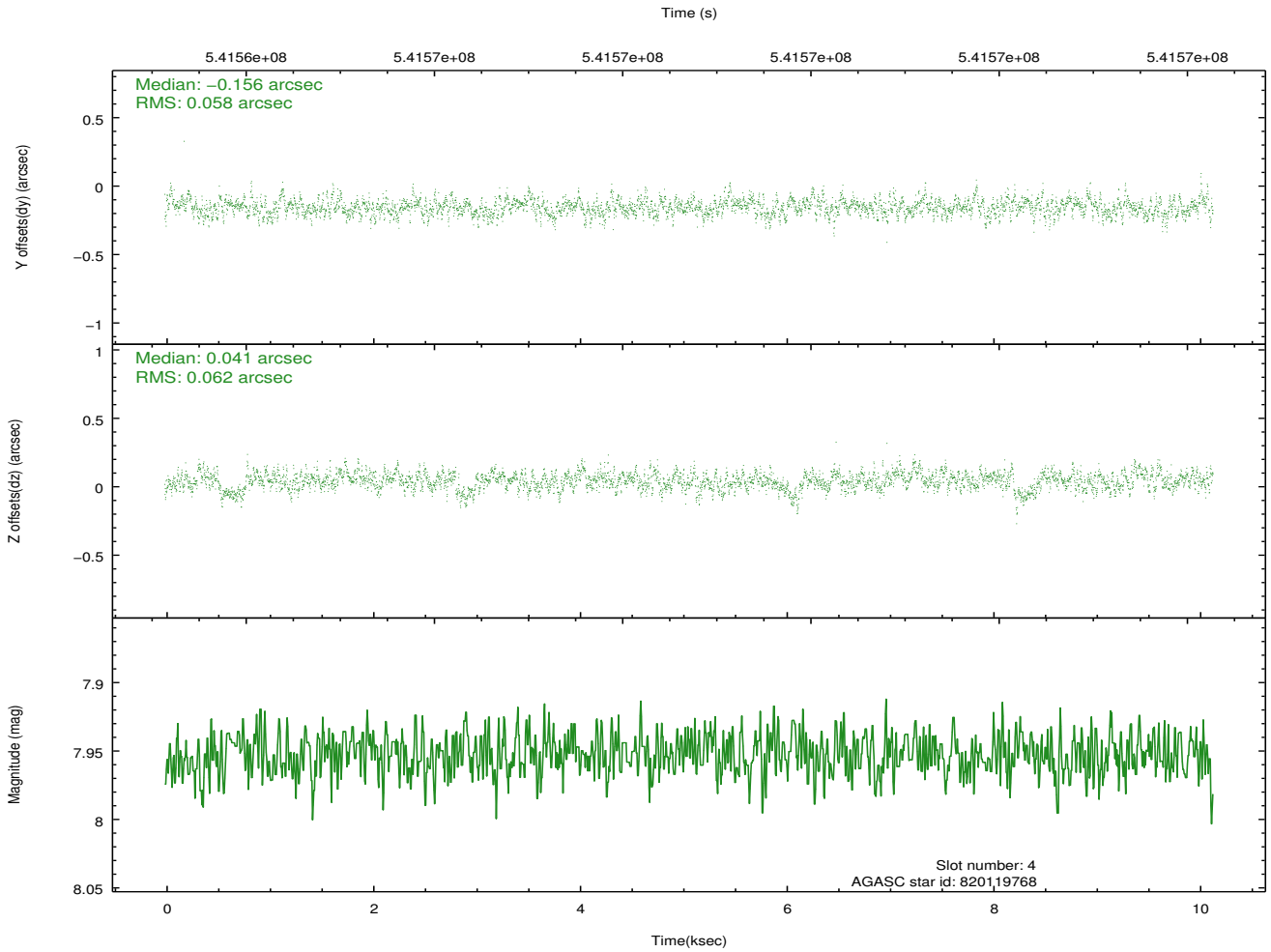
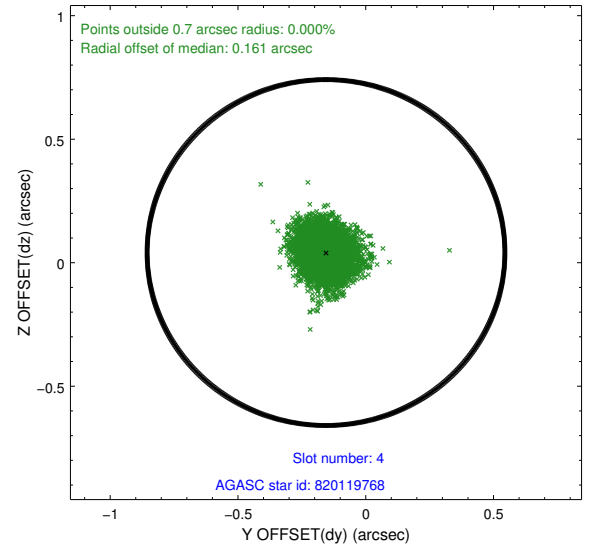
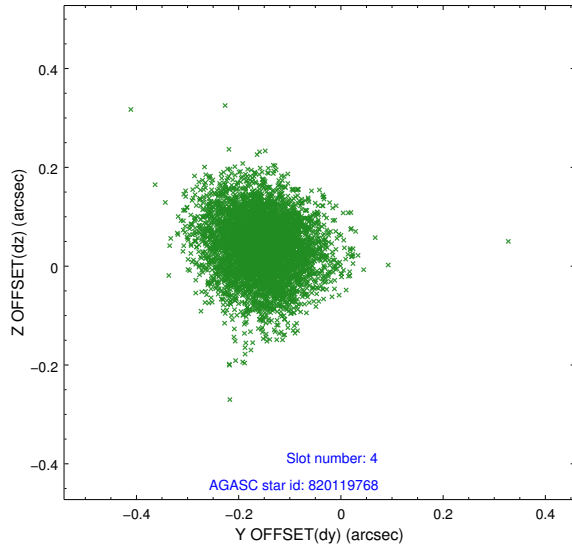
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | | HRC-S-1 | 7.04 | 2474 | 0.012 | -0.243 | 0.013 | 0.020 | 0.000000 | 0.000000 | -1171.57 | -467.93 |
| 1 | FID | | HRC-S-3 | 7.02 | 2474 | 0.045 | -0.005 | 0.015 | 0.023 | 0.000000 | 0.000000 | -1174.73 | 561.64 |
| 2 | FID | | HRC-S-4 | 6.98 | 2474 | 0.329 | -0.050 | 0.006 | 0.012 | 0.000000 | 0.000000 | 1226.51 | 564.57 |
| 3 | GUIDE | used | 820119168 | 8.06 | 4942 | 0.063 | 0.333 | 0.110 | 0.193 | 267.932854 | -19.779597 | 2241.21 | -2281.05 |
| 4 | GUIDE | used | 820119768 | 7.95 | 4947 | -0.156 | 0.041 | 0.089 | 0.146 | 267.398392 | -20.006729 | 1364.25 | -501.59 |
| 5 | GUIDE | used | 820121744 | 6.71 | 4947 | -0.682 | -0.761 | 0.075 | 0.118 | 267.173633 | -19.779615 | 2153.28 | 287.95 |
| 6 | GUIDE | used | 820641816 | 7.19 | 4947 | 0.117 | 0.065 | 0.070 | 0.114 | 267.363435 | -20.830907 | -1604.73 | -489.24 |
| 7 | GUIDE | used | 820644800 | 8.83 | 4944 | 0.660 | 0.328 | 0.099 | 0.158 | 267.803773 | -20.964535 | -2034.55 | -1985.93 |

2.4 Star Slots

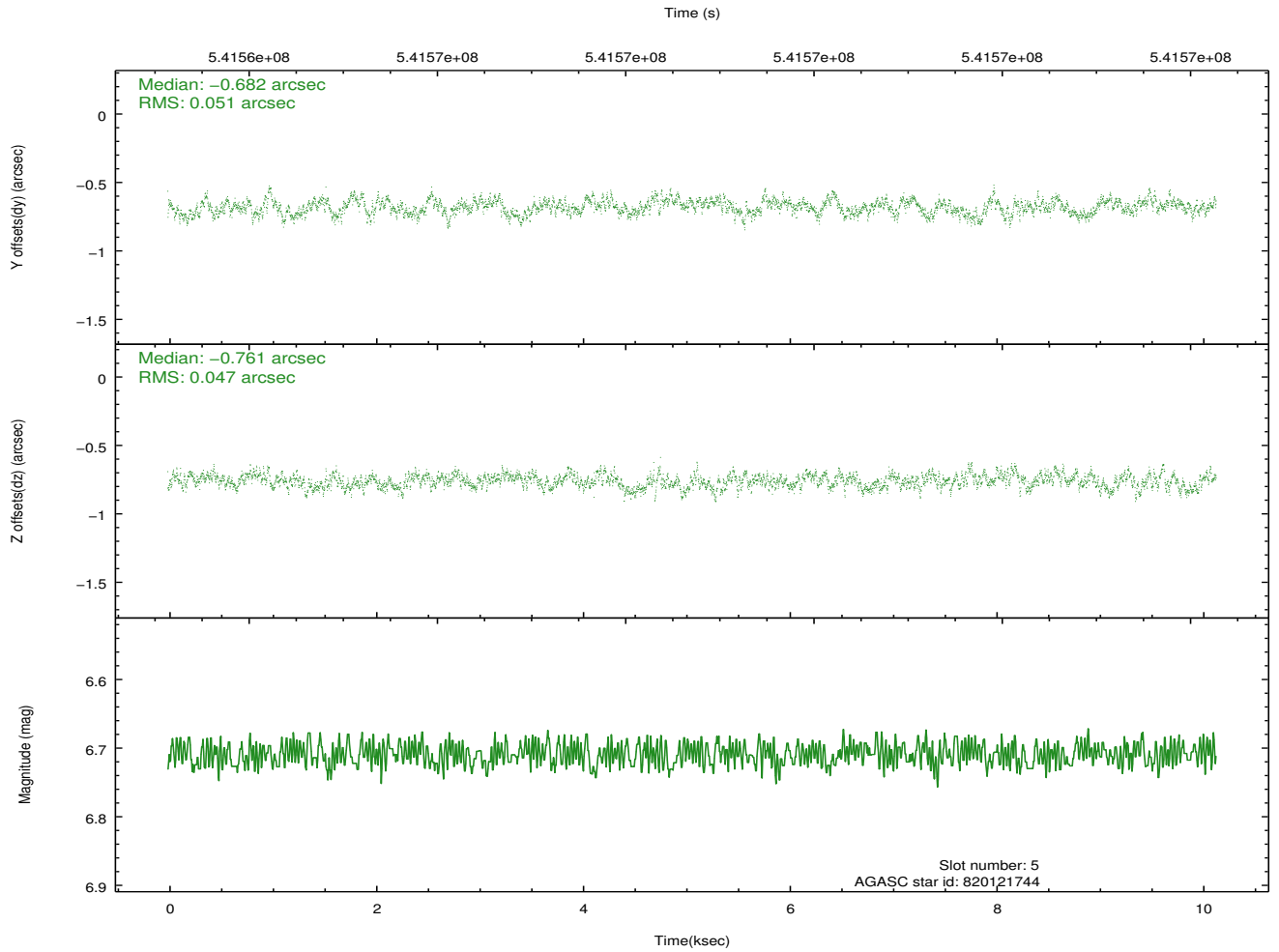
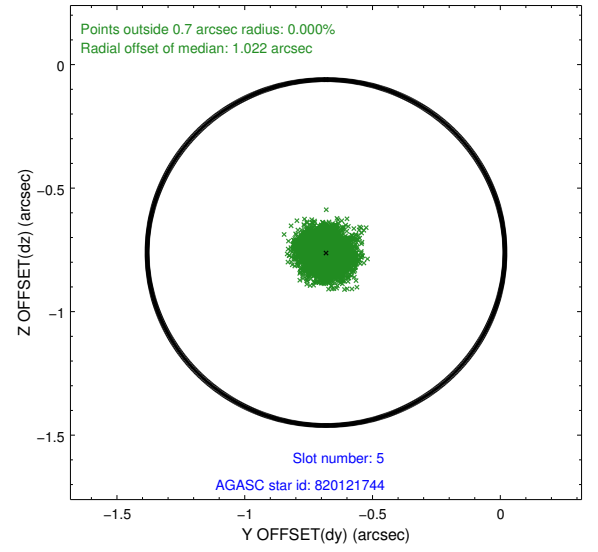
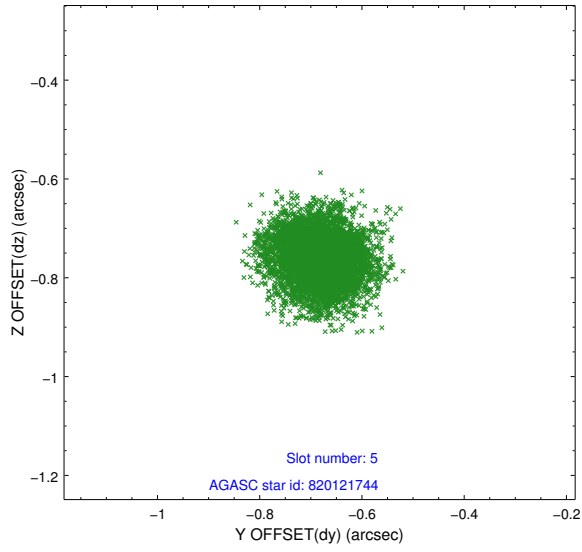
2.4.1 Slot 3



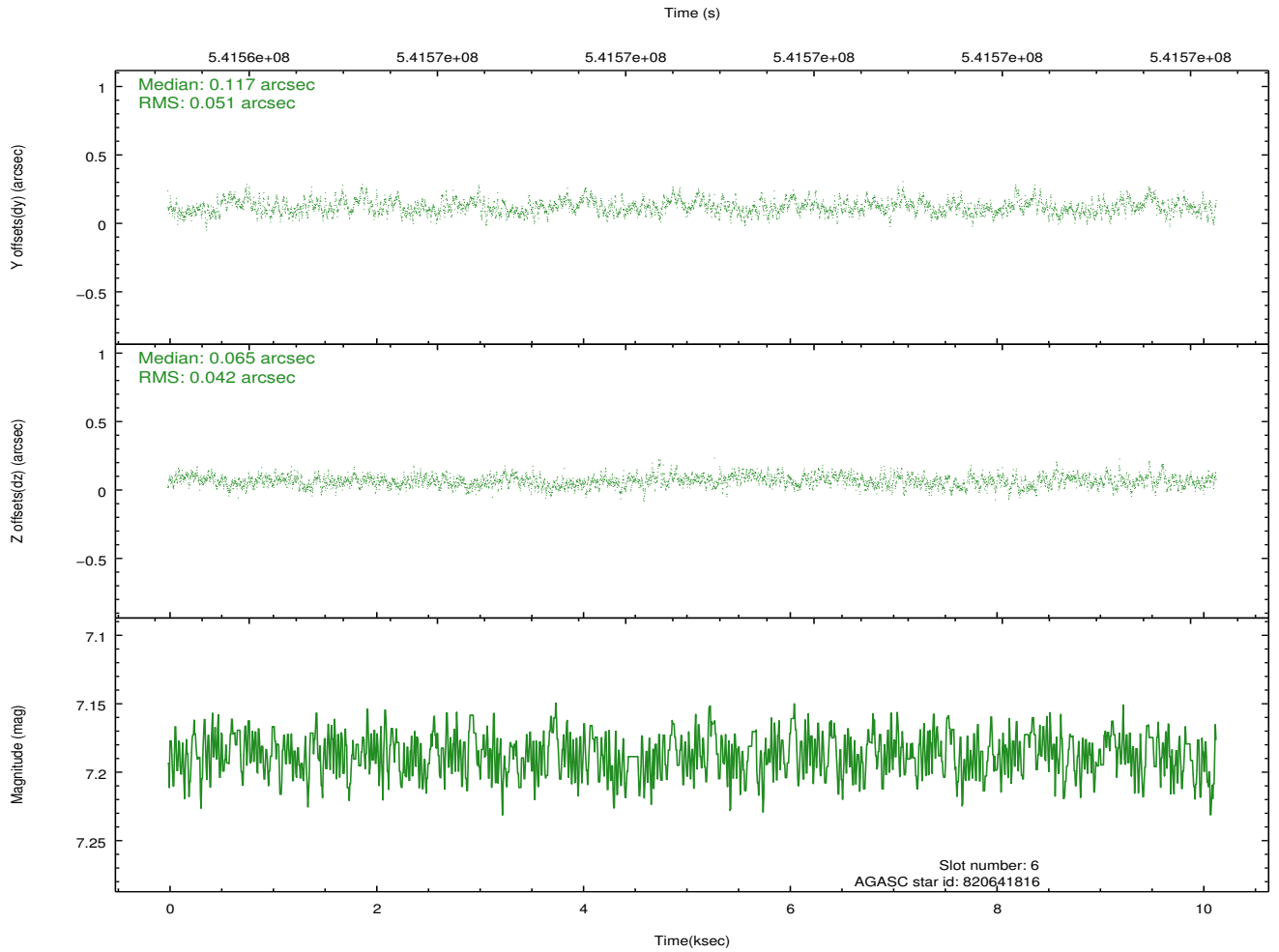
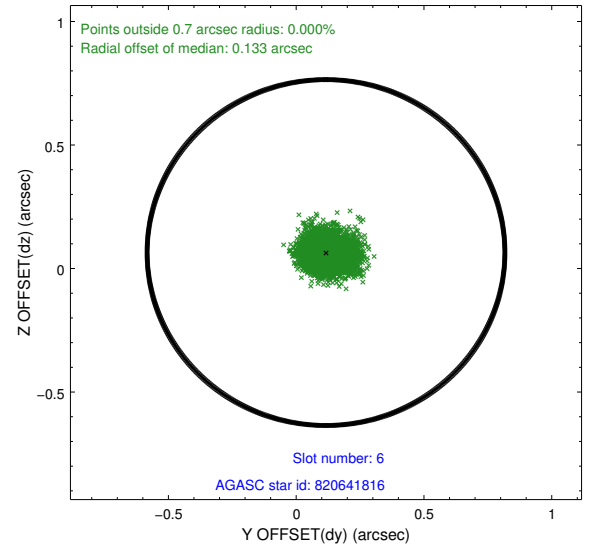
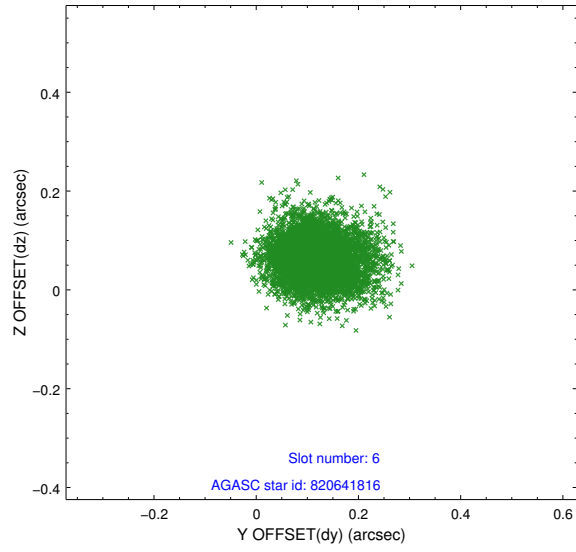
2.4.2 Slot 4



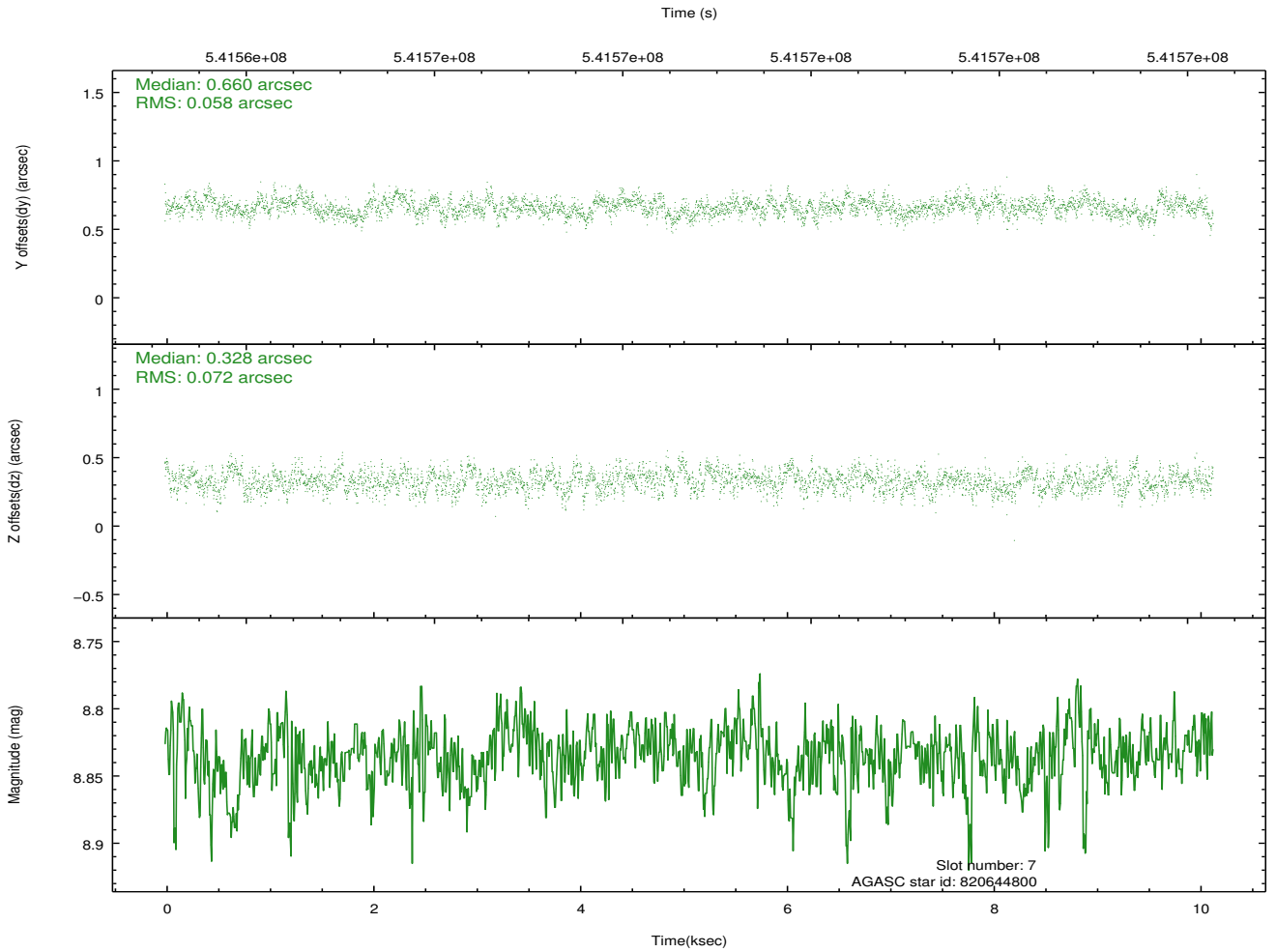
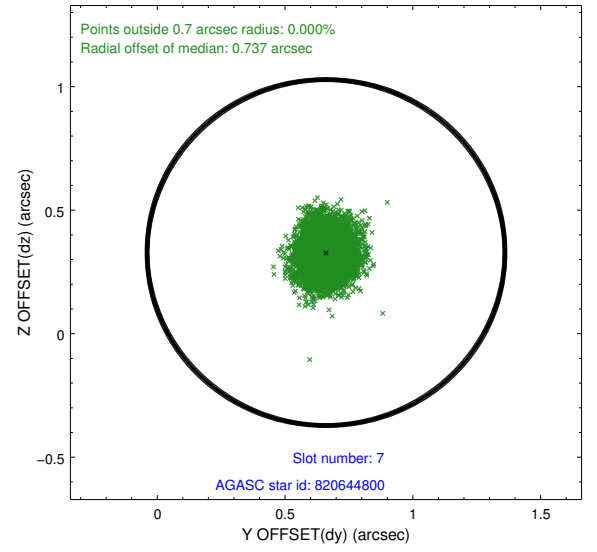
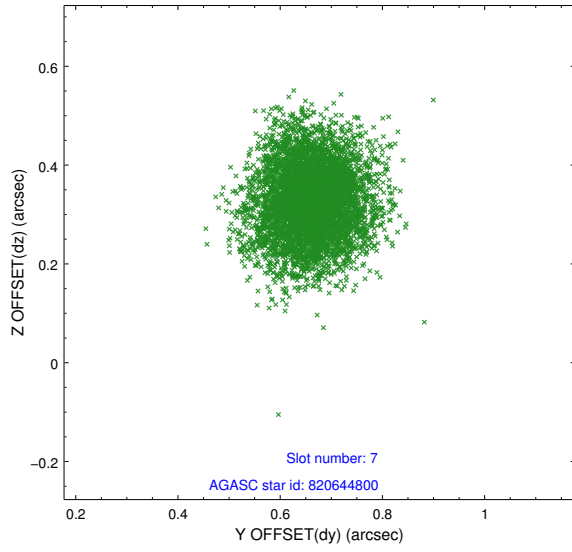
2.4.3 Slot 5



2.4.4 Slot 6

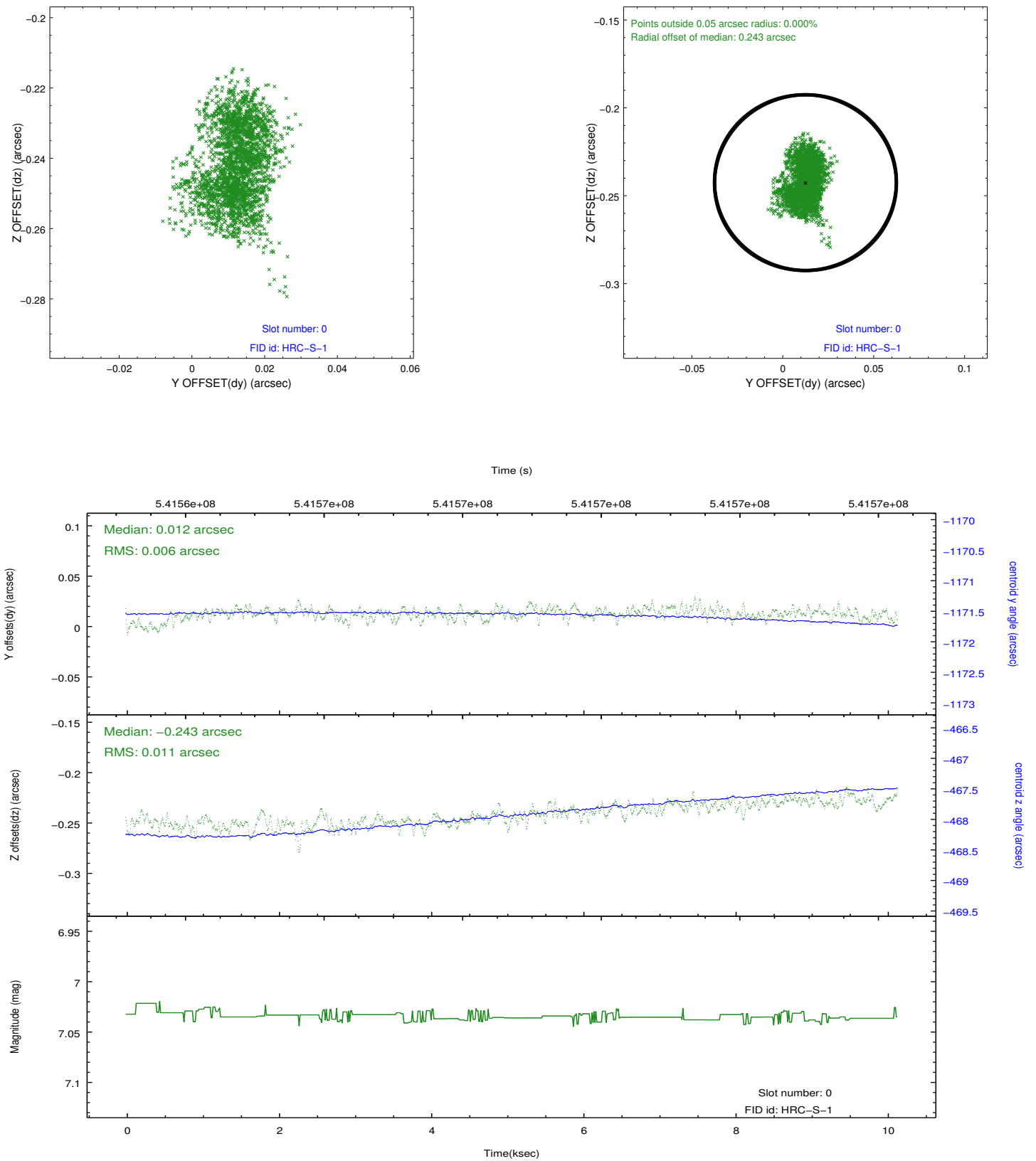


2.4.5 Slot 7

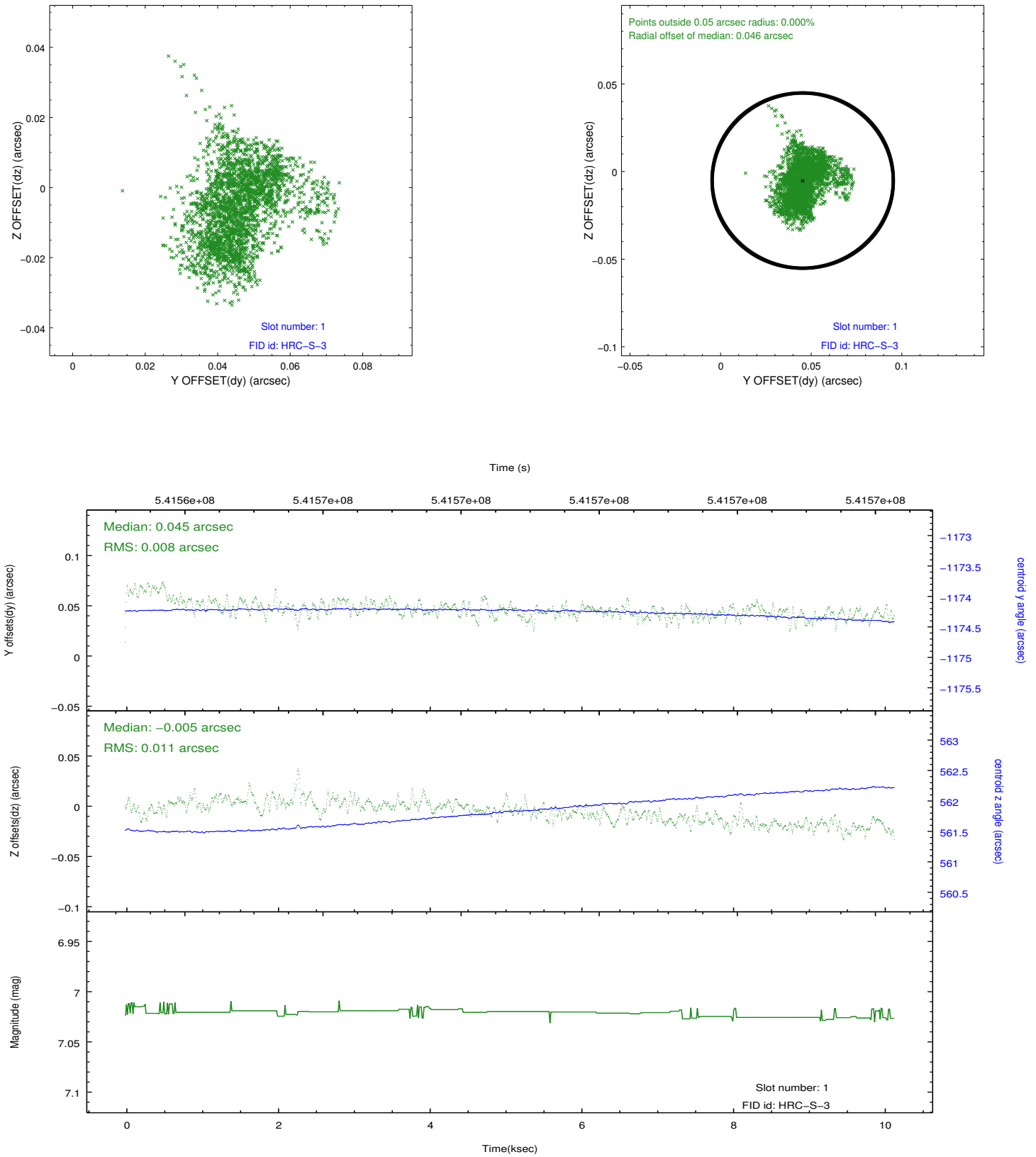


2.5 FID Slots

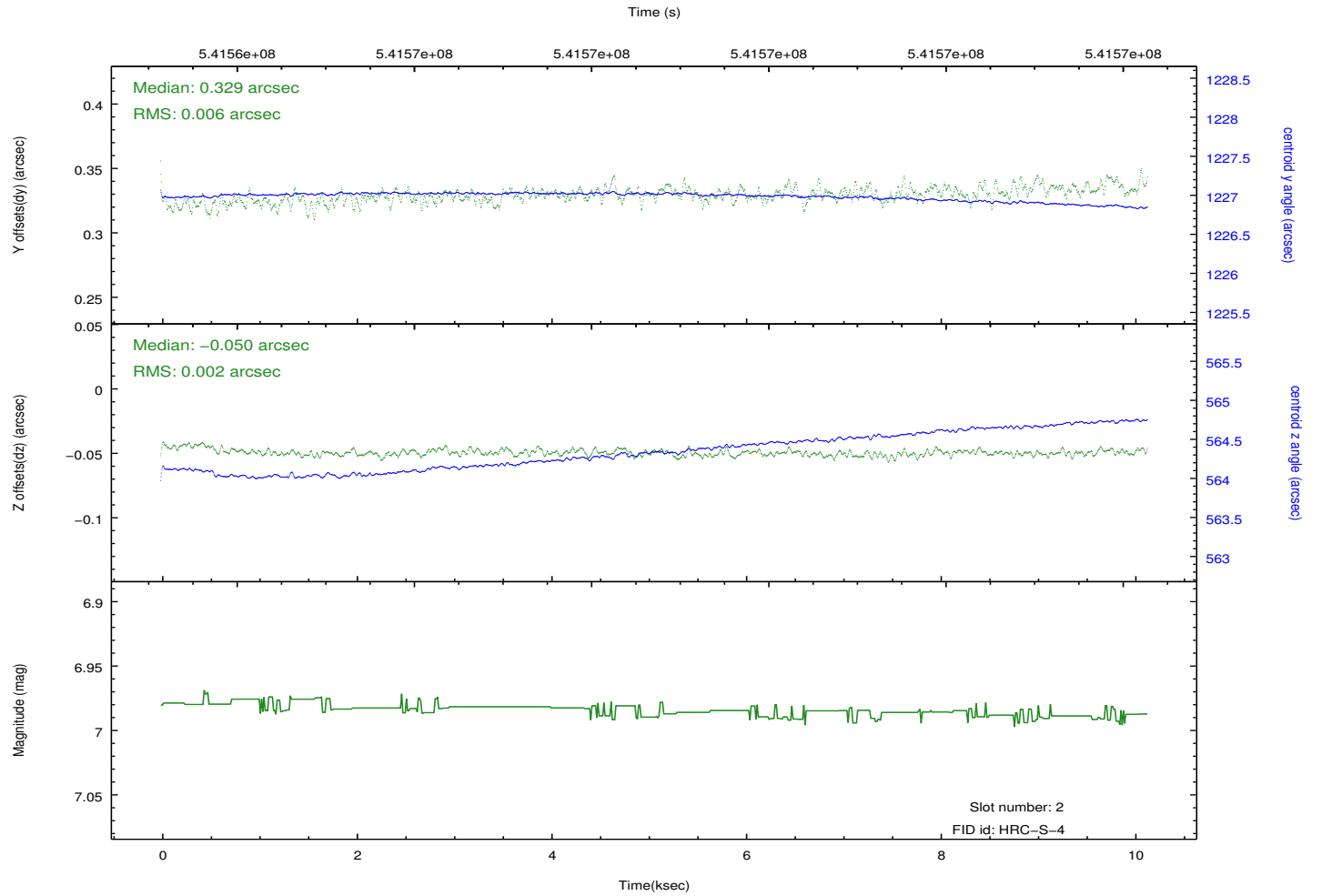
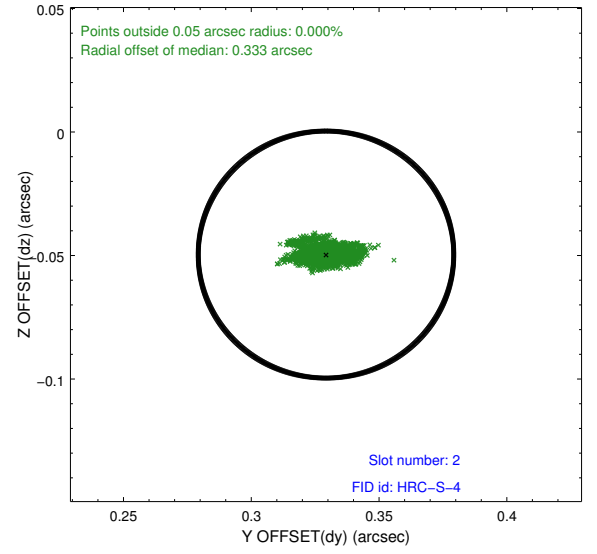
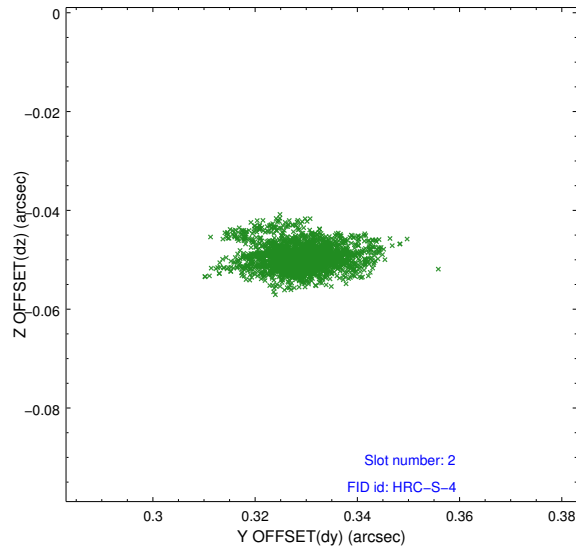
2.5.1 Slot 0



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) | 2015.03.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.140581807494 |

A.2 Comments