

V&V Reference Report

L2 ASCDS Version : 8.3.2.1

Observation 1340 - L2 Version 4

Chandra X-Ray Center

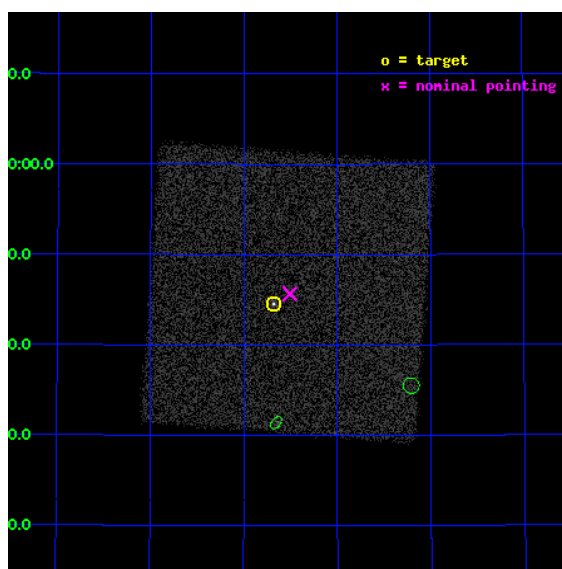
L2 Processing Date : Sep 28 2010

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1 Front

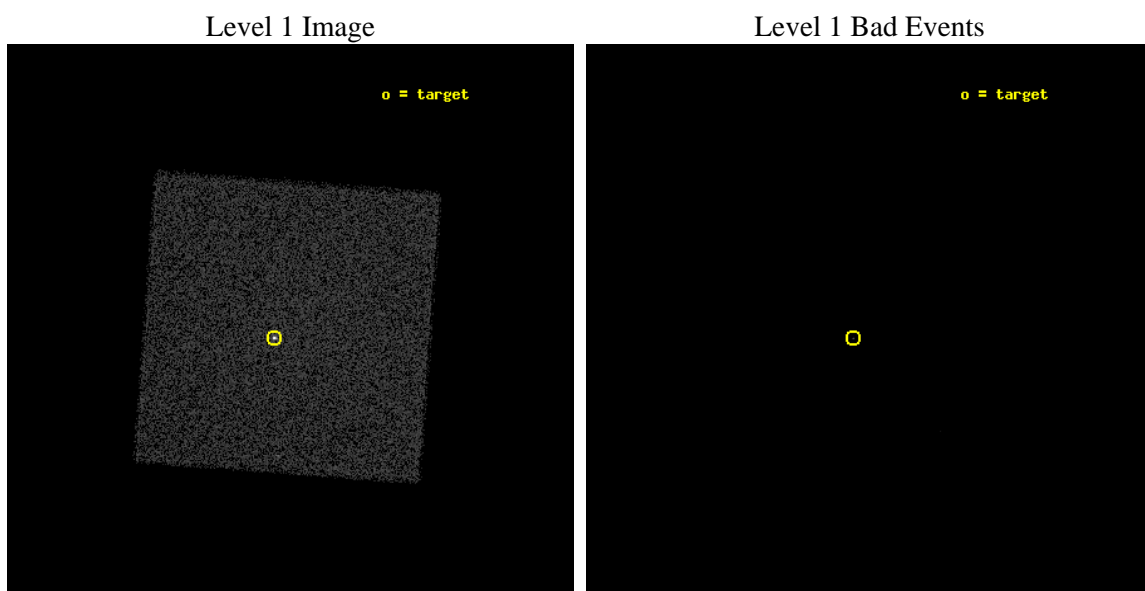
| | | |
|----------|---------------------|---------------------------------|
| seq_num | 280290 | Sequence number |
| obs_id | 1340 | Observation id |
| title | | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ArLac | Source name |
| ra_targ | 332.1701 | Observer's specified target RA |
| dec_targ | 45.7423 | Observer's specified target Dec |
| ra_nom | 332.126599389 | Nominal RA |
| dec_nom | 45.76118551271 | Nominal Dec |
| roll_nom | 229.28880129737 | Nominal Roll |
| revision | 4 | Processing version of data |
| ontime | 1357.1000488997 | [s] |
| livetime | 1349.5640245392 | Ontime multiplied by DTCOR |
| l2events | 42017 | 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 | Scheduled observation exposure time |
| ascdsver | 8.3.2.1 | Processing system revision | ontime | 1357.1000488997 | [s] |
| caldbver | 4.3.1 | | l1events | 70058 | Number of level 1 events |
| date | 2010-09-28T07:07:09 | Date and time of file creation | | | |
| revision | 4 | Processing version of data | | | |

2.1.3 Events

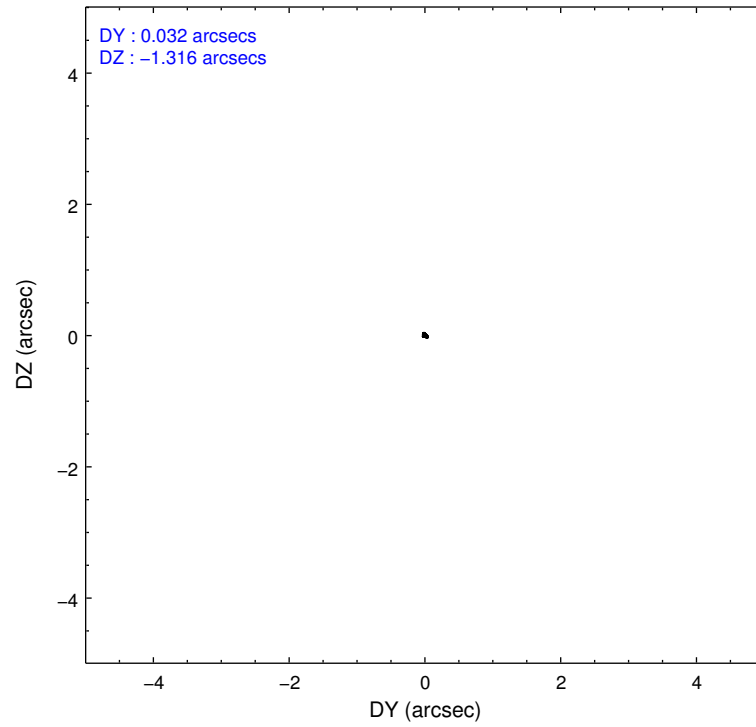
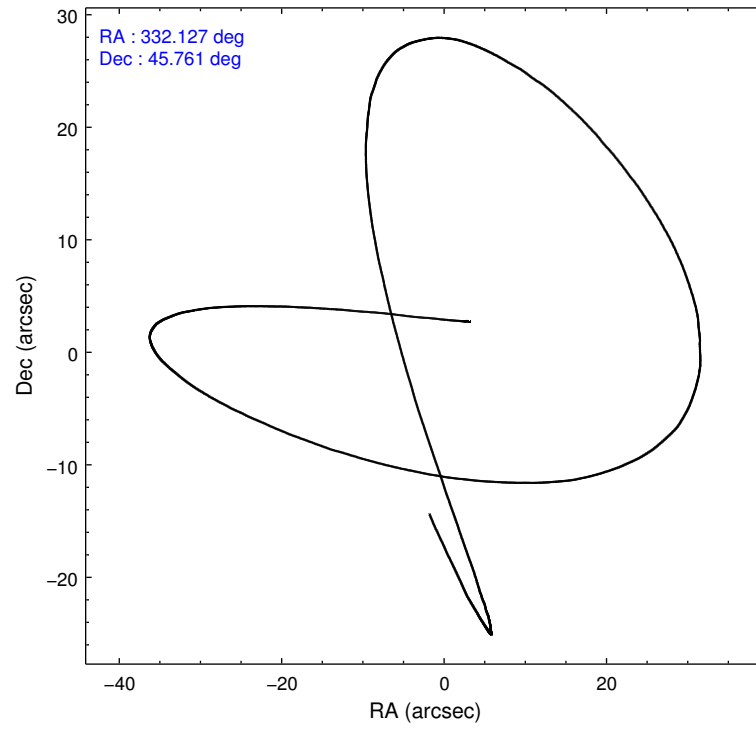
Level 1 Events

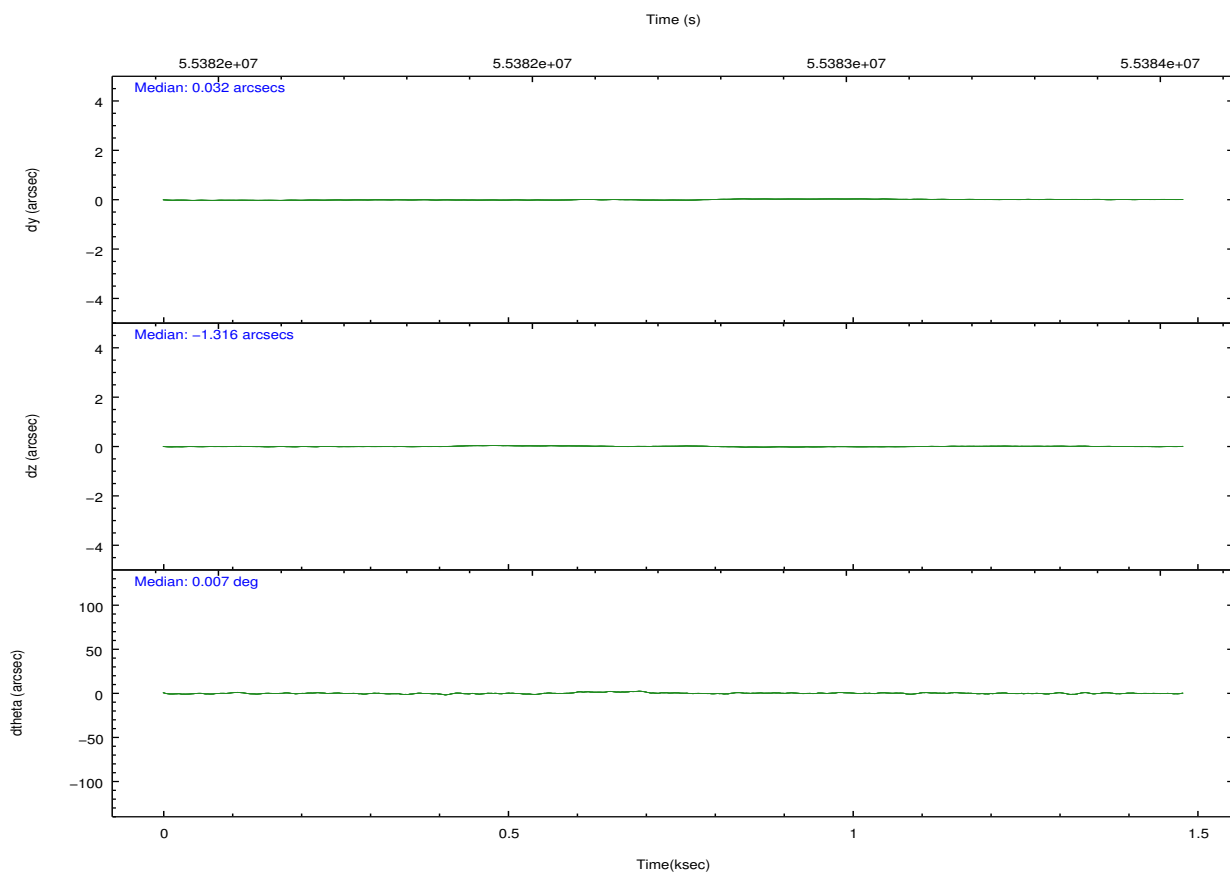
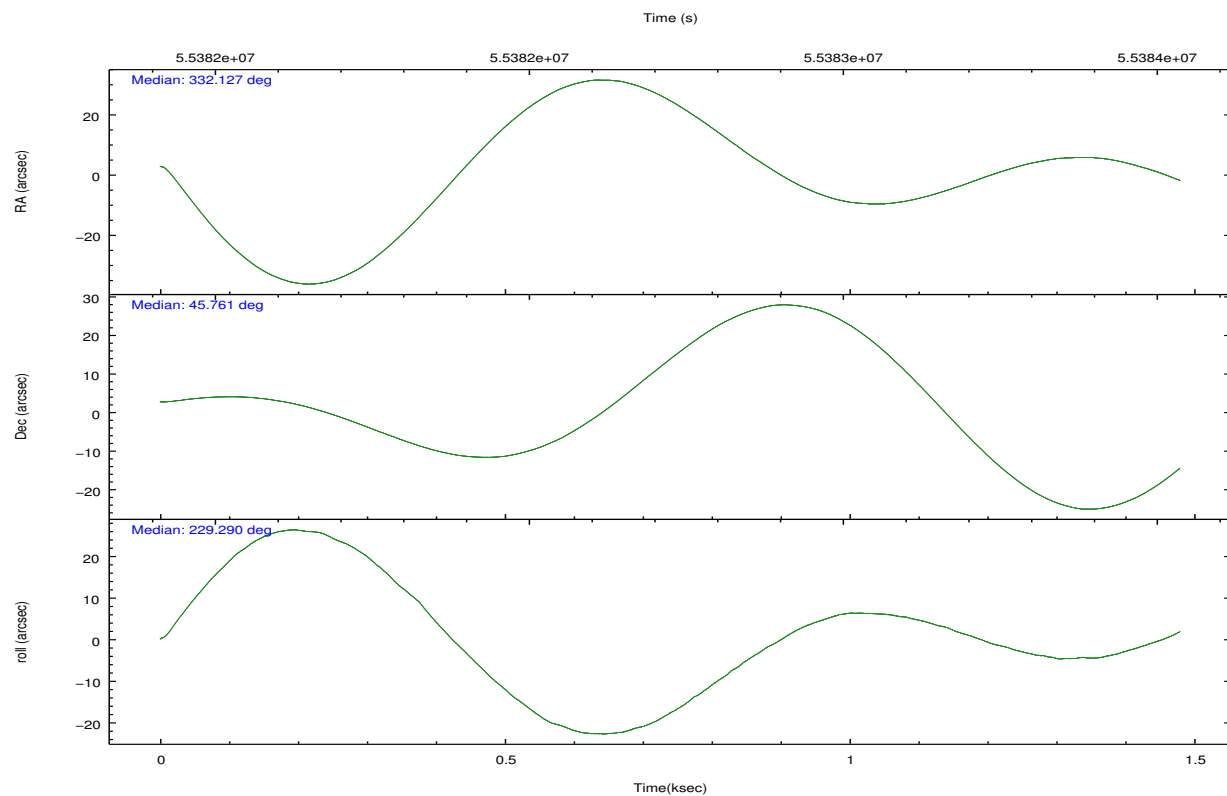
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 70058 |
| rejected events | 245 |
| rejected % | 0% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|------------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 6 | 6 |
| 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 | | | |
| Pointing RA | 332.134845 | 332.1265993889957 | | | |
| Pointing Dec | 45.788875 | 45.7611855127099 | | | |
| Pointing Roll | 229.378369 | 229.2888012973742 | | | |
| SIM focus pos (mm) | -0.040293 | -0.2342646132009995 | | | |
| SIM defocus (mm) | 1 | 0.806028007457875 | | | |
| SIM translation stage pos (mm) | 126.985494 | 126.9854943052878 | | | |
| SIM translation stage offset (mm) | 0 | -5.413686238853188e-06 | | | |
| Observation start time | 55382464.184000 | 55381797.782576 | | | |
| Observation start date | 1999-10-04T00:00:00 | 1999-10-03T23:49:57 | | | |
| Observation end time | 55383464.184000 | 55383597.682641 | | | |
| Observation end date | 1999-10-04T00:16:40 | 1999-10-04T00:19:57 | | | |

2.3 Aspect



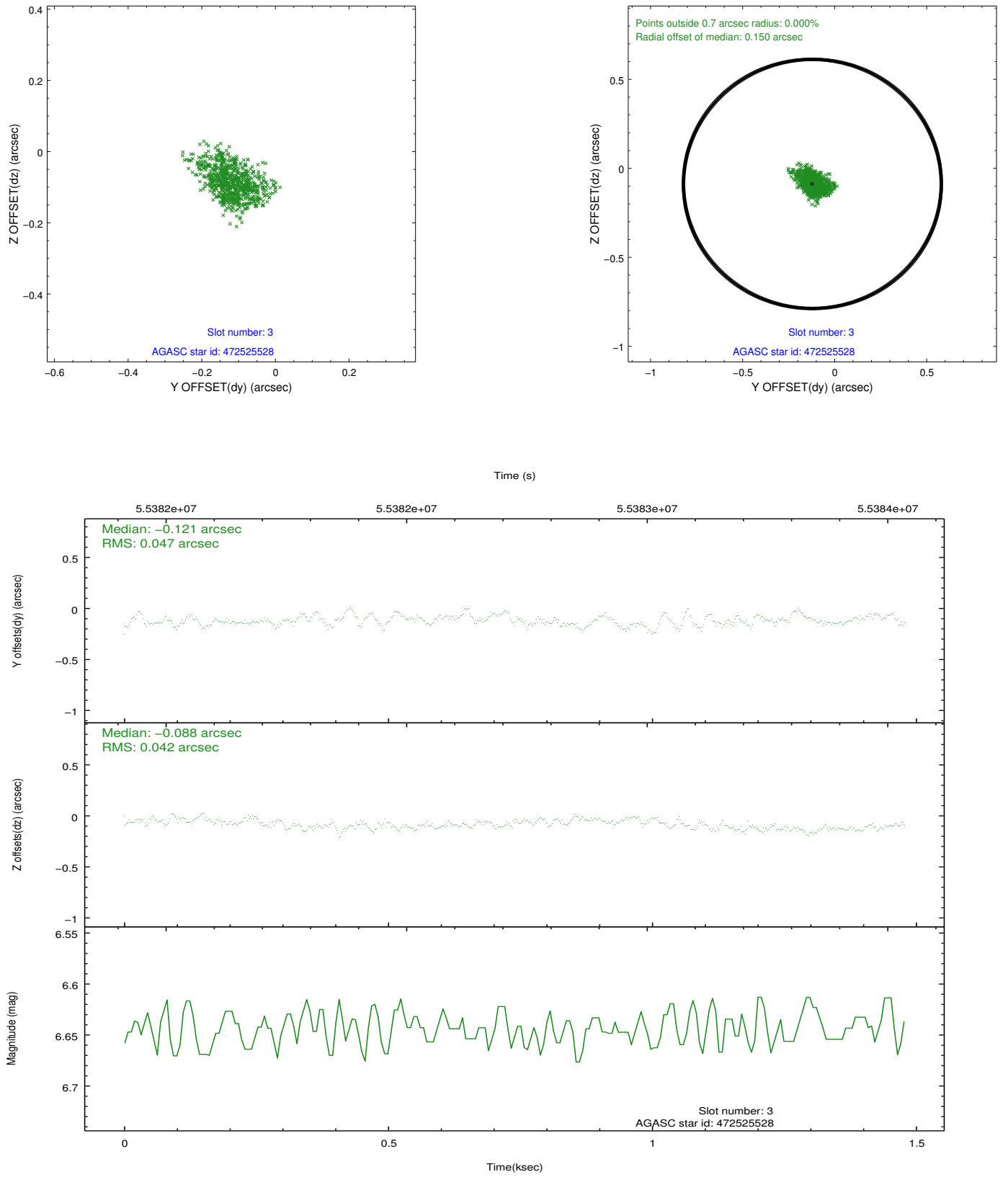


Slot Statistics

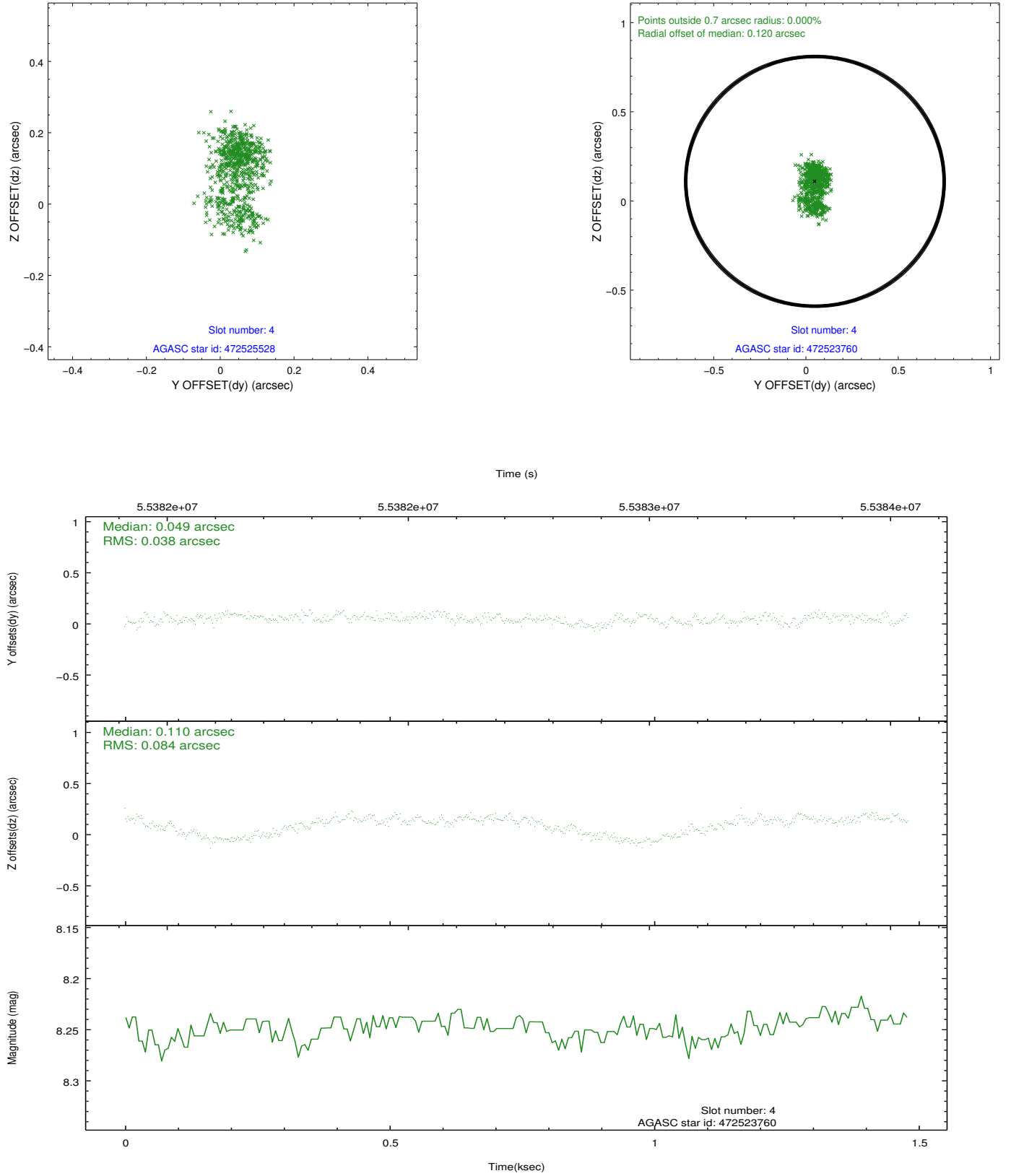
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.95 | 723 | 0.060 | -0.000 | 0.007 | 0.018 | 0.000000 | 0.000000 | -755.41 | -1286.47 |
| 1 | FID | HRC-I-3 | 7.04 | 723 | 0.060 | -0.033 | 0.009 | 0.017 | 0.000000 | 0.000000 | -1185.02 | 1016.45 |
| 2 | FID | HRC-I-4 | 6.97 | 723 | -0.006 | -0.056 | 0.007 | 0.012 | 0.000000 | 0.000000 | 1285.79 | 1017.27 |
| 3 | GUIDE | 472525528 | 6.64 | 723 | -0.121 | -0.088 | 0.067 | 0.109 | 331.551102 | 45.248694 | 2431.90 | 139.48 |
| 4 | GUIDE | 472523760 | 8.25 | 723 | 0.049 | 0.110 | 0.092 | 0.172 | 331.645363 | 45.403260 | 1856.55 | -37.47 |
| 5 | GUIDE | 472665256 | 9.00 | 723 | 0.034 | -0.056 | 0.070 | 0.116 | 332.808125 | 46.195041 | -2208.13 | 316.86 |
| 6 | GUIDE | 472659832 | 9.46 | 723 | 0.011 | 0.024 | 0.085 | 0.137 | 332.780399 | 46.098139 | -1905.42 | 494.62 |
| 7 | GUIDE | 472655152 | 9.44 | 721 | 0.015 | 0.025 | 0.089 | 0.141 | 332.504239 | 45.862991 | -812.87 | 528.58 |

2.4 Star Slots

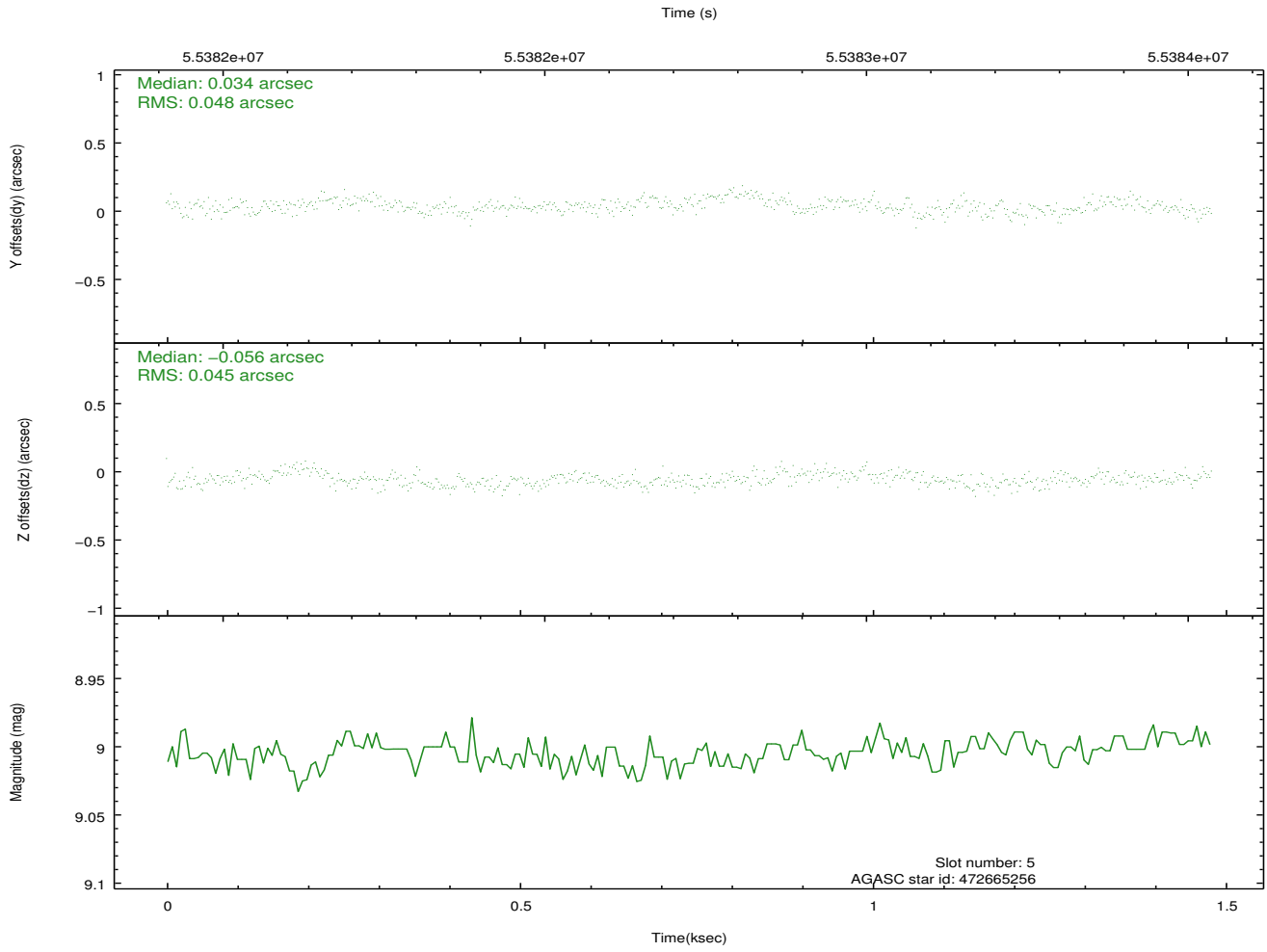
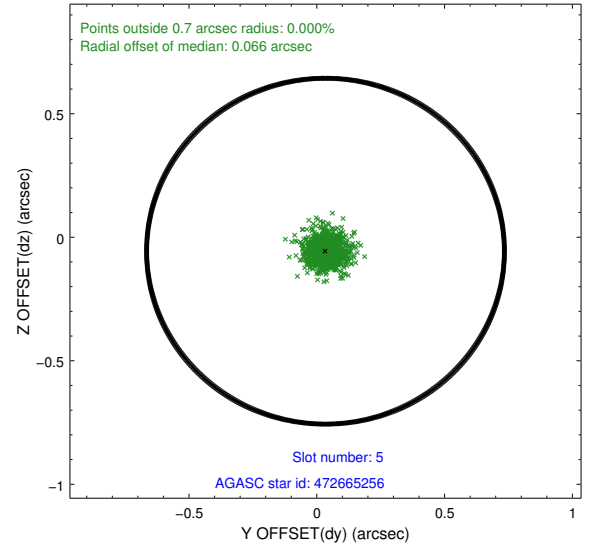
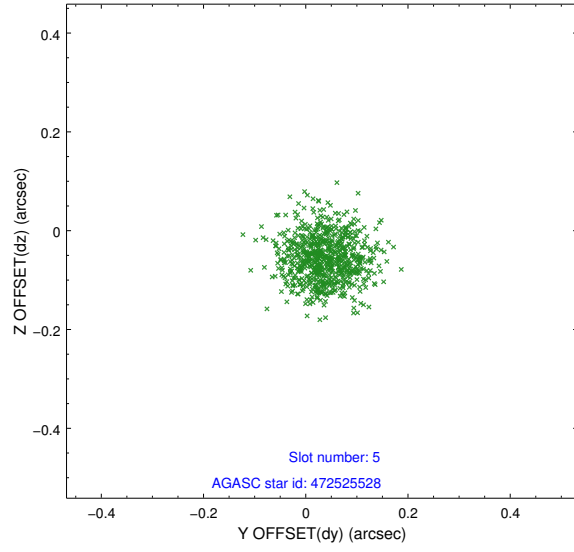
2.4.1 Slot 3



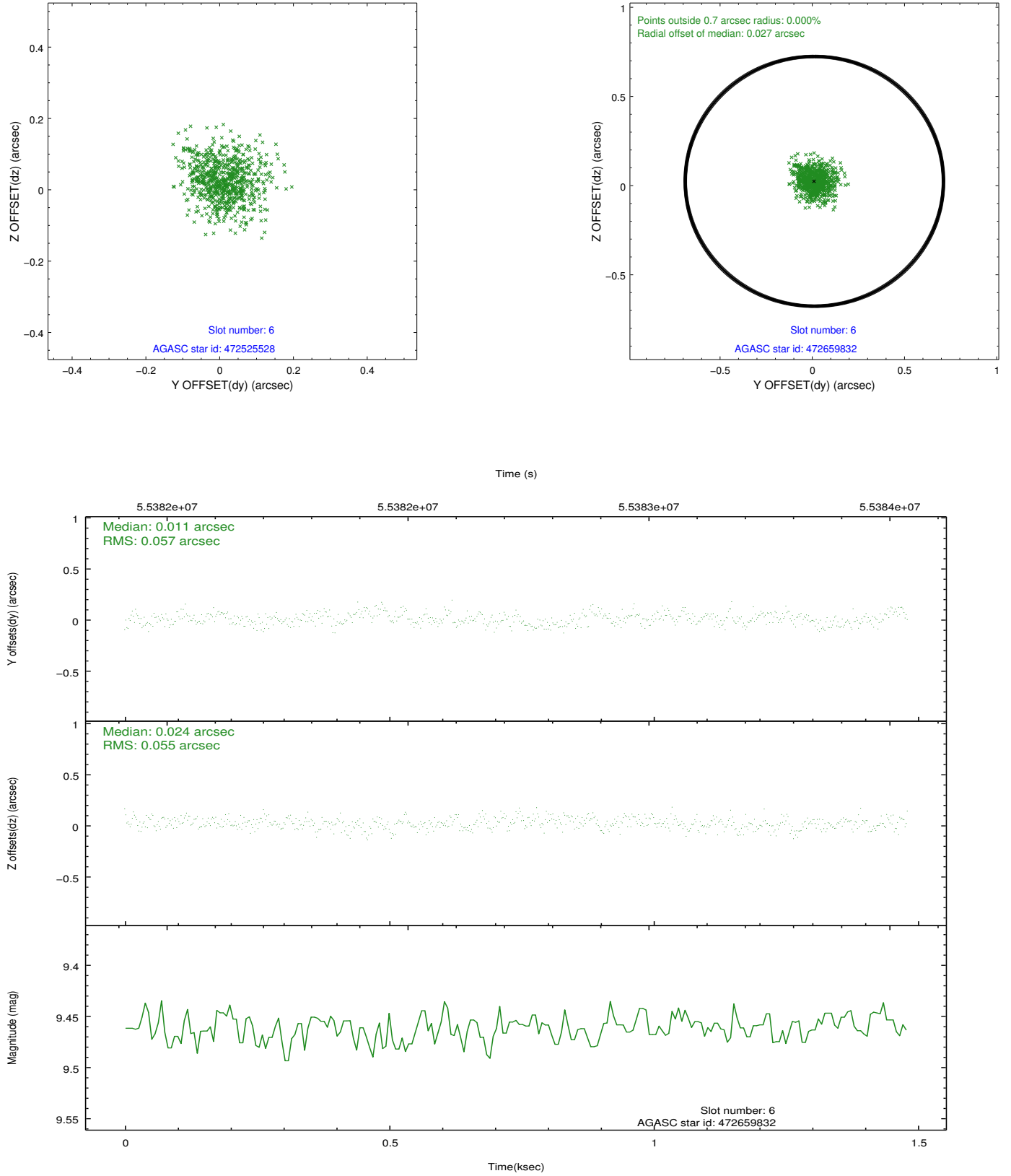
2.4.2 Slot 4



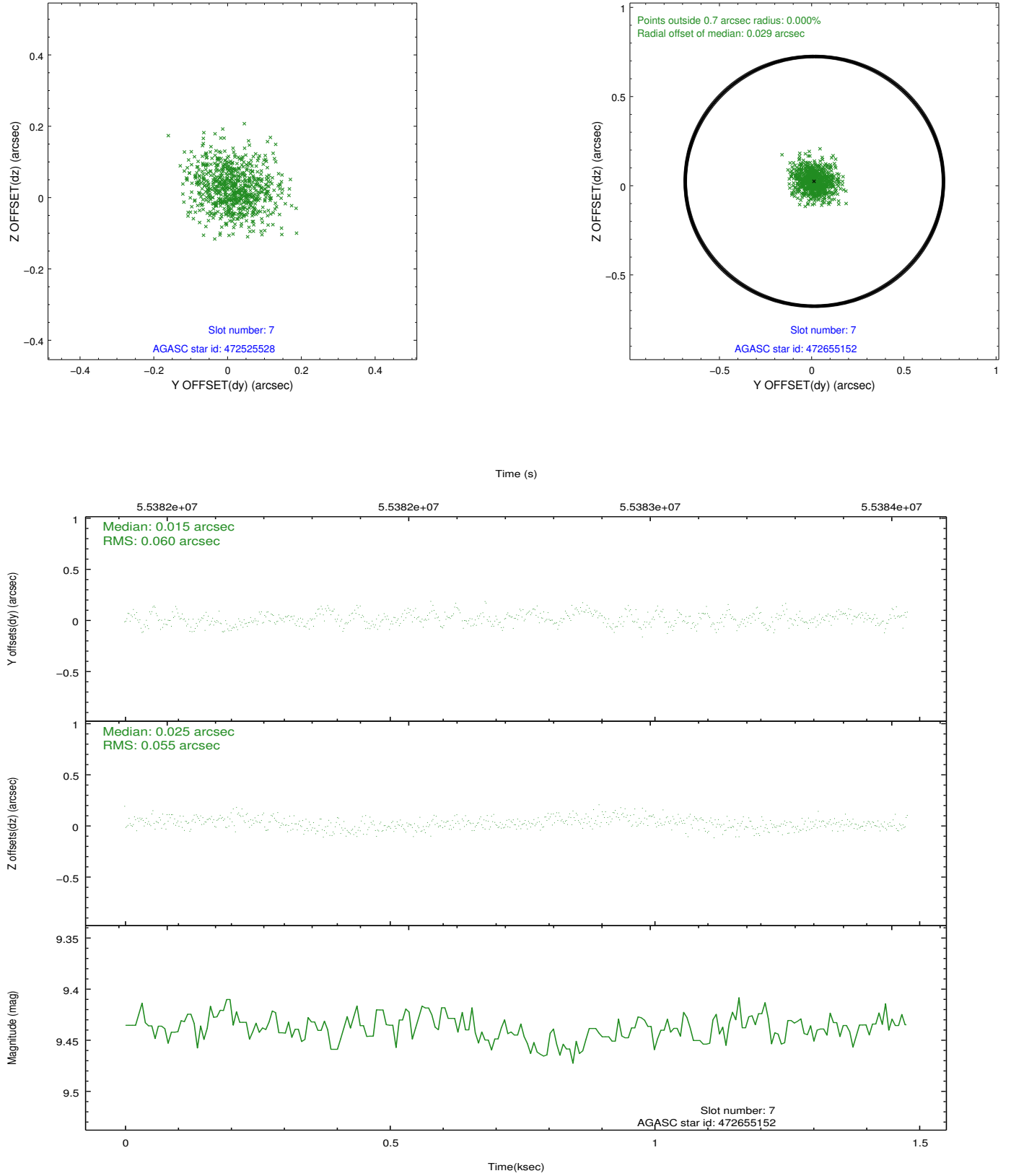
2.4.3 Slot 5



2.4.4 Slot 6

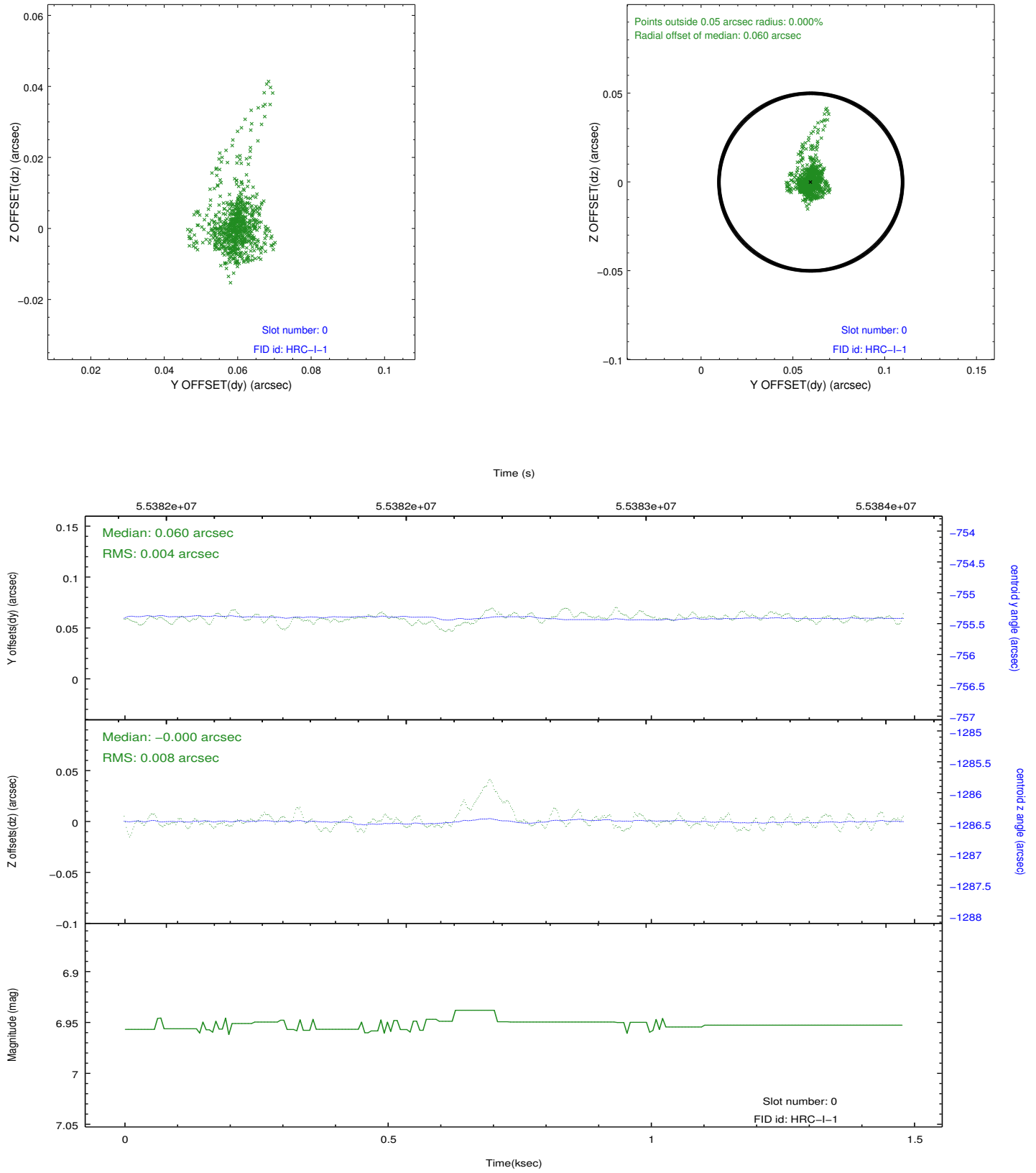


2.4.5 Slot 7

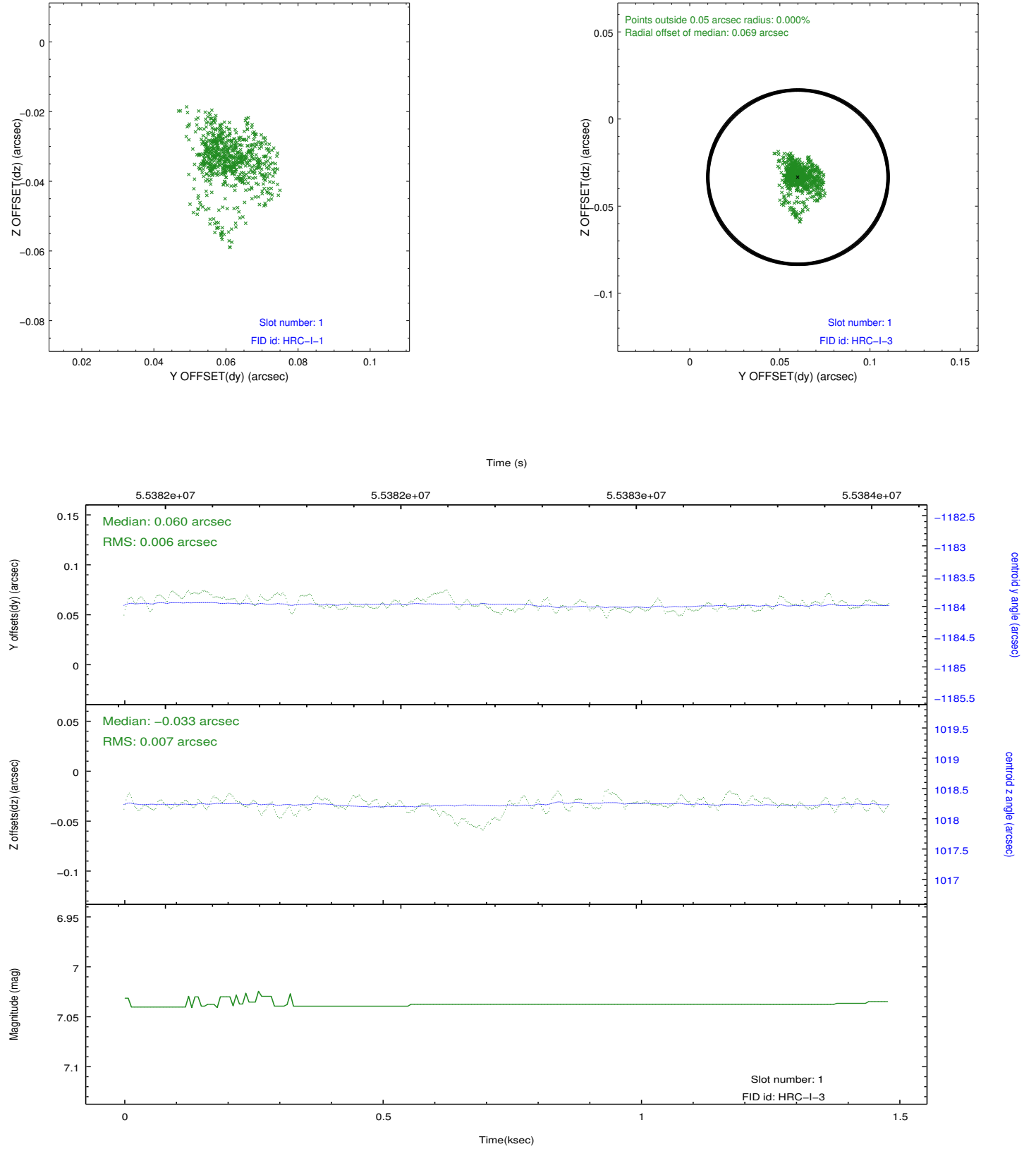


2.5 FID Slots

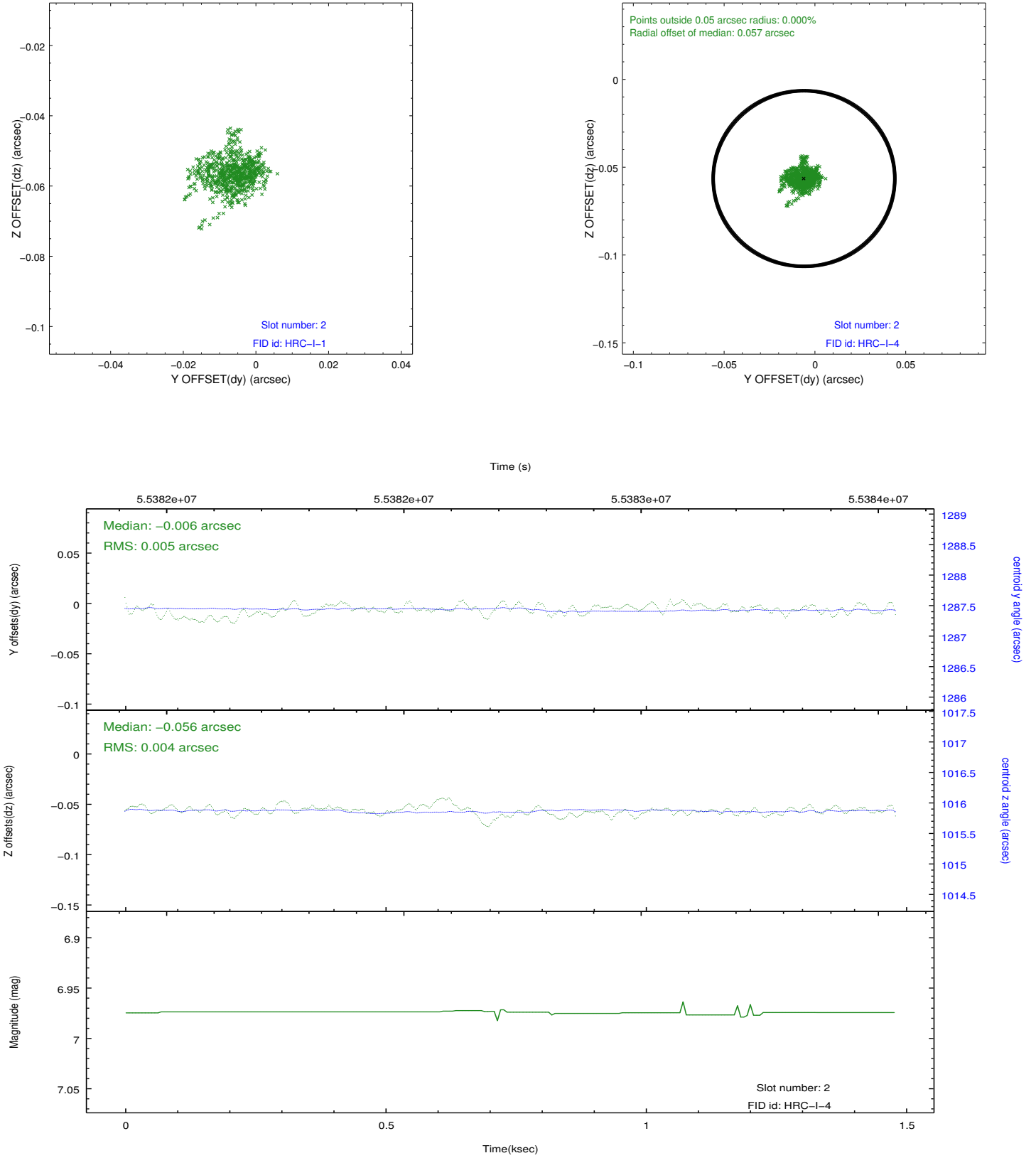
2.5.1 Slot 0



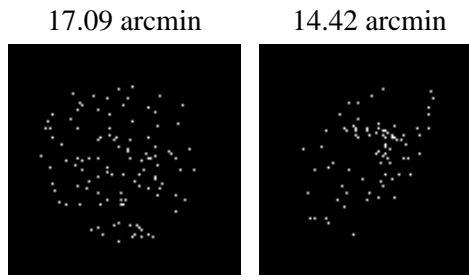
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2010.09.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.275 |

A.2 Comments

AR LAC observation to study HRC-I spatial gain dependence on HV. Source is off-axis.

Charge time remains at previous value of 1.275 ksec, although with the current

processing the charge time would have been 1.357 ksec.