

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3886 - L2 Version 3
Chandra X-Ray Center

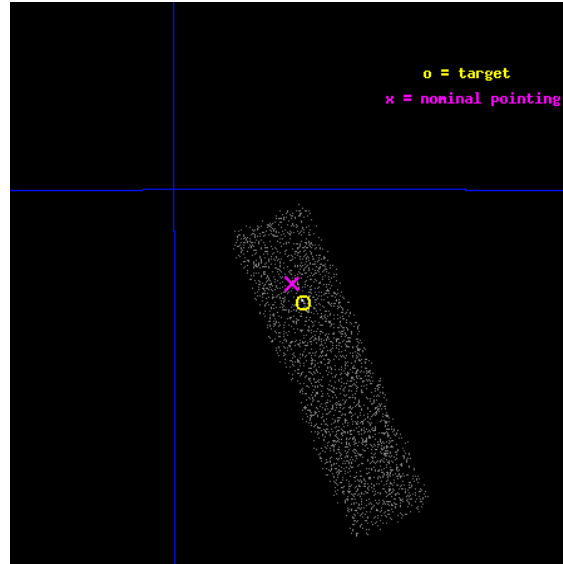
L2 Processing Date : Oct 24 2012

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1 Front

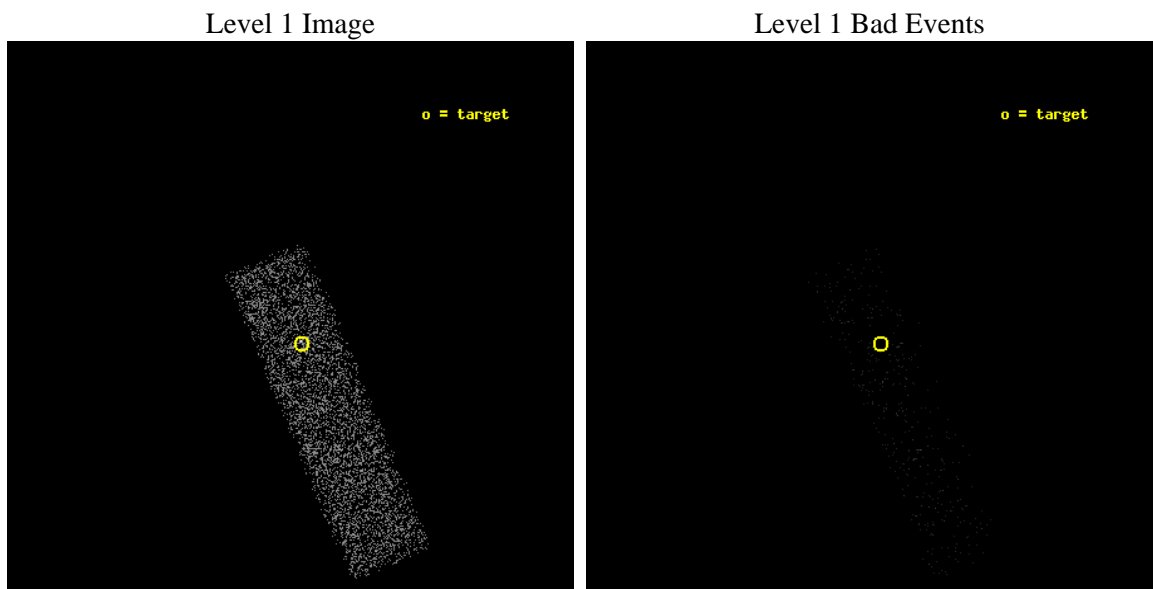
| | | |
|----------|--|---|
| seq_num | 500365 | Sequence number |
| obs_id | 3886 | Observation id |
| title | COMPLETING THE CENSUS OF COMPACT OBJECTS IN SUPERNOVA REMNANTS | Pro |
| observer | Prof. David Kaplan | Principal investigator |
| object | RX J151942.8-375255 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 229.928333 | Observer's specified target RA [deg] |
| dec_targ | -37.881944 | Observer's specified target Dec [deg] |
| ra_nom | 229.93495670783 | Nominal RA [deg] |
| dec_nom | -37.873927016839 | Nominal Dec [deg] |
| roll_nom | 67.078040439797 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 2852.5041656792 | Sum of GTIs [s] |
| livetime | 2713.3112961849 | Livetime [s] |
| ontime7 | 2852.5041656792 | Sum of GTIs [s] |
| l2events | 2950 | Number of level 2 events |



2 OBI

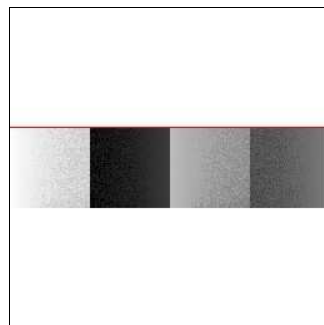
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 2852.5041656792 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime7 | 2852.5041656792 | Sum of GTIs [s] |
| date | 2012-10-24T12:38:59 | Date and time of file creation | l1events | 6403 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

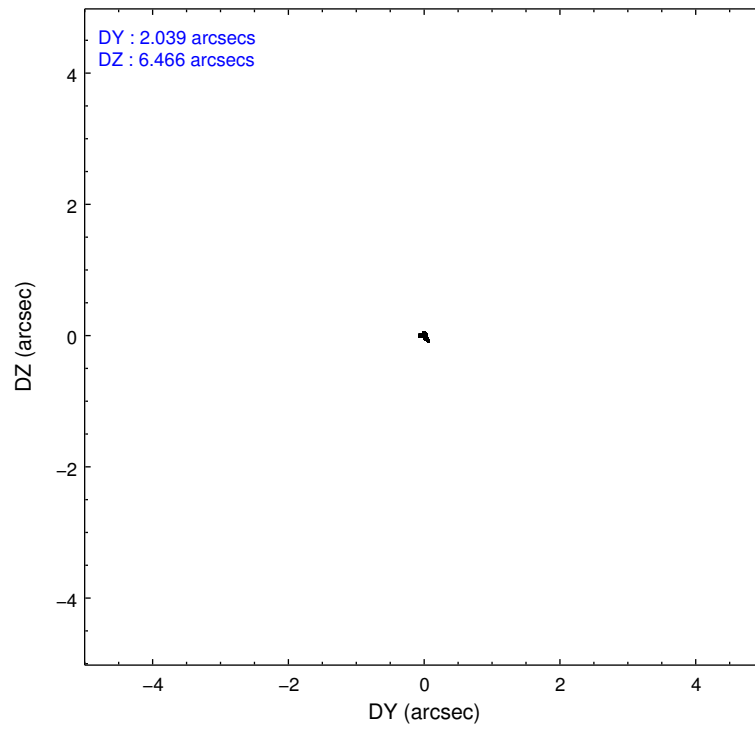
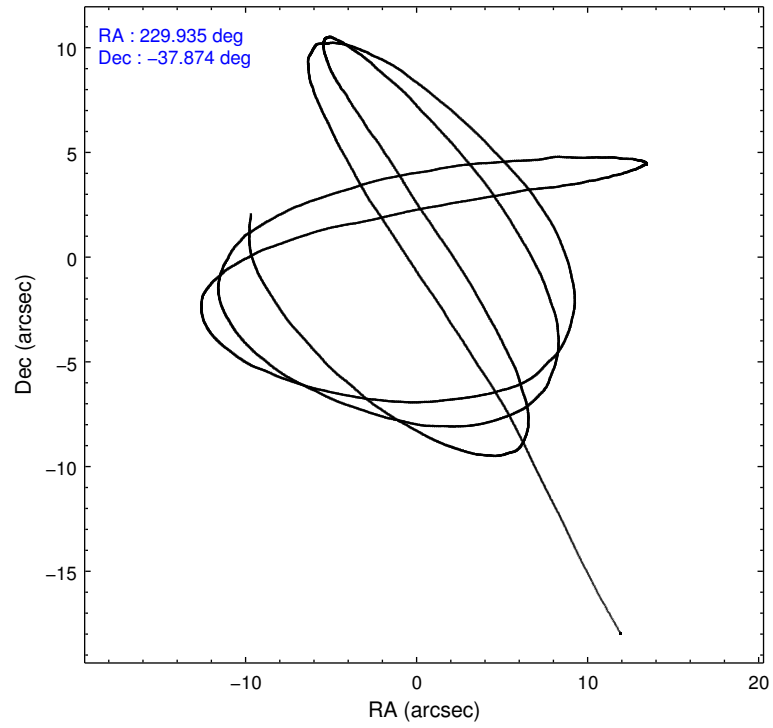
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 6403 |
| rejected events | 3378 |
| rejected % | 52% |

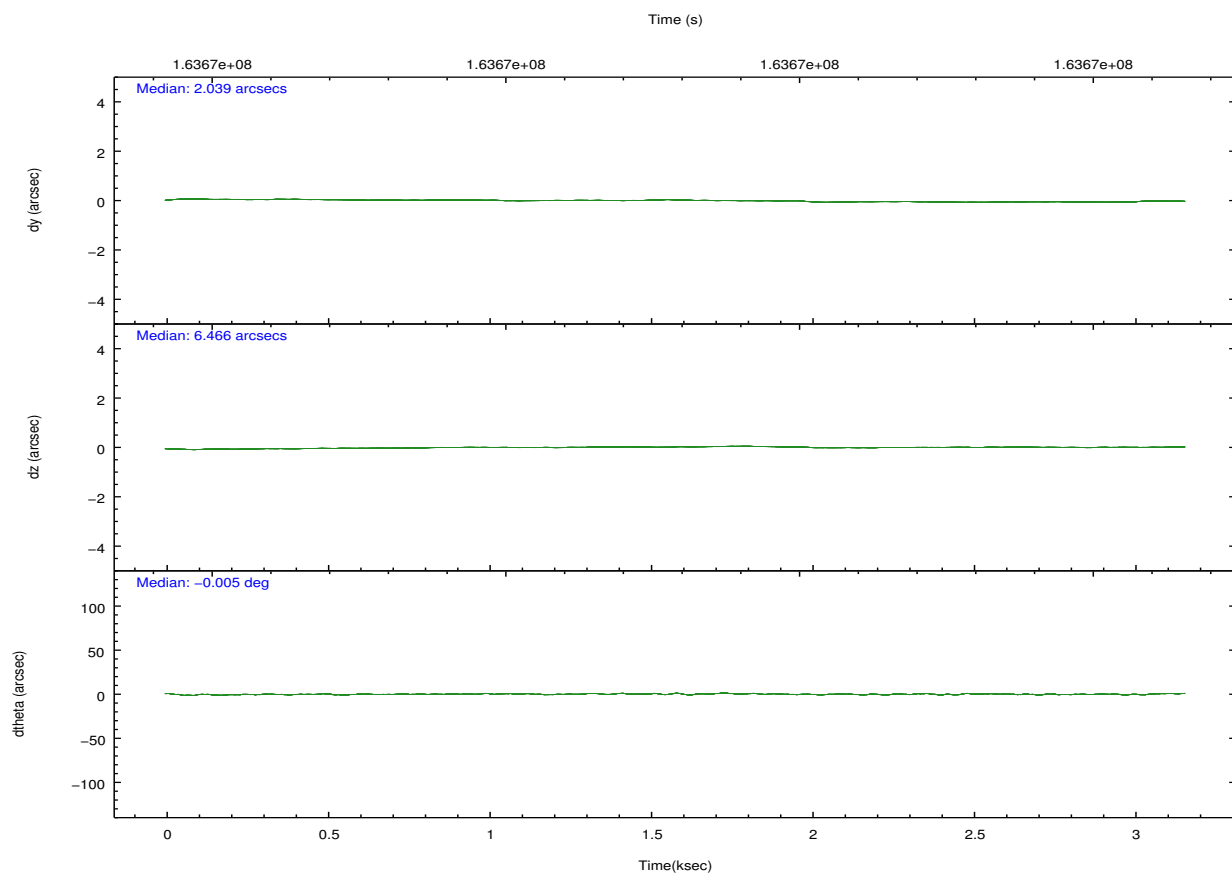
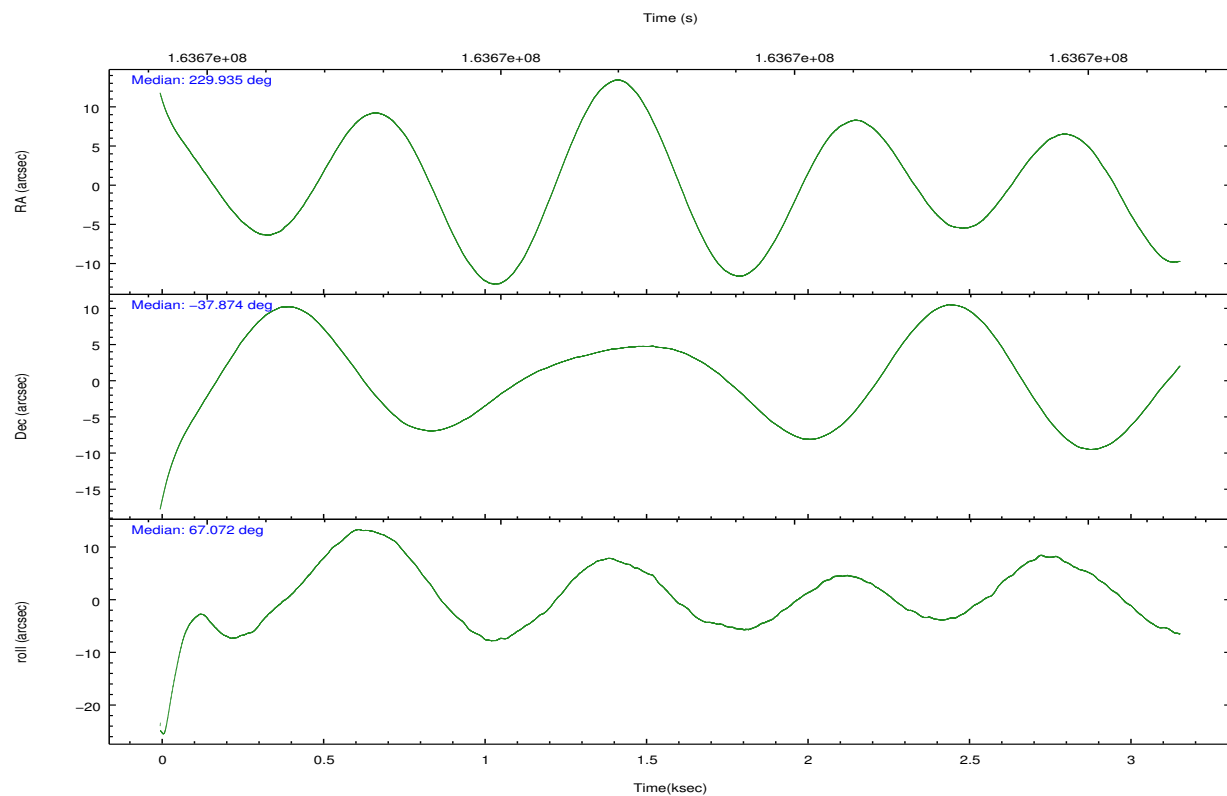
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 390 |
| | 6% |
| grade 1 events | 8 |
| | 0% |
| grade 2 events | 590 |
| | 9% |
| grade 3 events | 325 |
| | 5% |
| grade 4 events | 340 |
| | 5% |
| grade 5 events | 586 |
| | 9% |
| grade 6 events | 1380 |
| | 21% |
| grade 7 events | 2784 |
| | 43% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-7 | ACIS-7 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 229.939730 | 229.9349567078295 | Subarray requested | CUSTOM | 1/4 |
| [deg] Pointing Dec | -37.900813 | -37.873927016839 | Subarray start row | 384 | 385 |
| [deg] Pointing Roll | 66.924438 | 67.07804043979662 | Subarray row count | 256 | 256 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | Alternating exposures requested | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | [s] Primary exposure time | 0.000000 | 0.8 |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 163668152.184000 | 163667179.32732 | | | |
| Observation start date | 2003-03-10T07:21:28 | 2003-03-10T07:06:19 | | | |
| [s] Observation end time (MET) | 163671152.184000 | 163671743.65251 | | | |
| Observation end date | 2003-03-10T08:11:28 | 2003-03-10T08:22:23 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



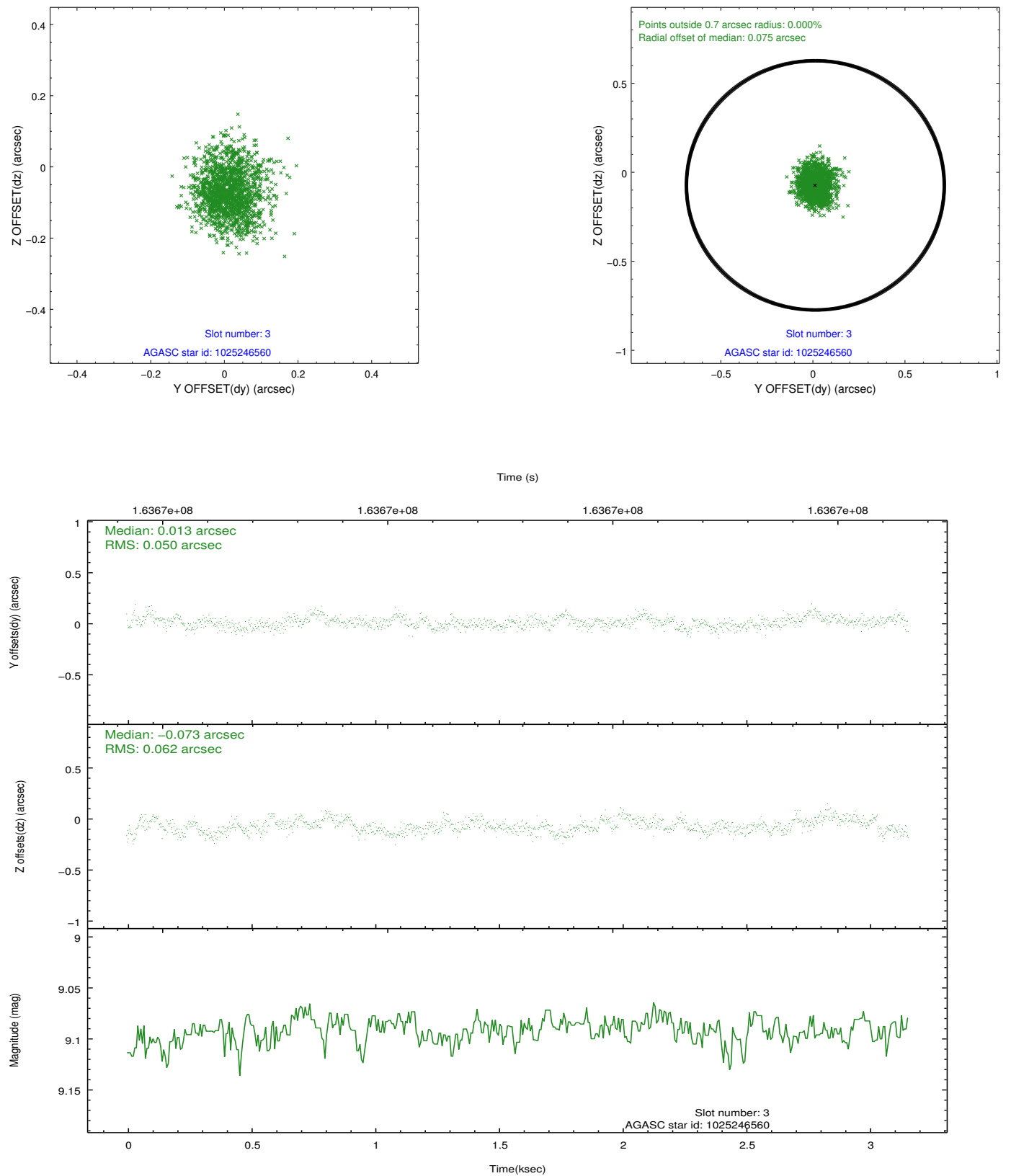


Slot Statistics

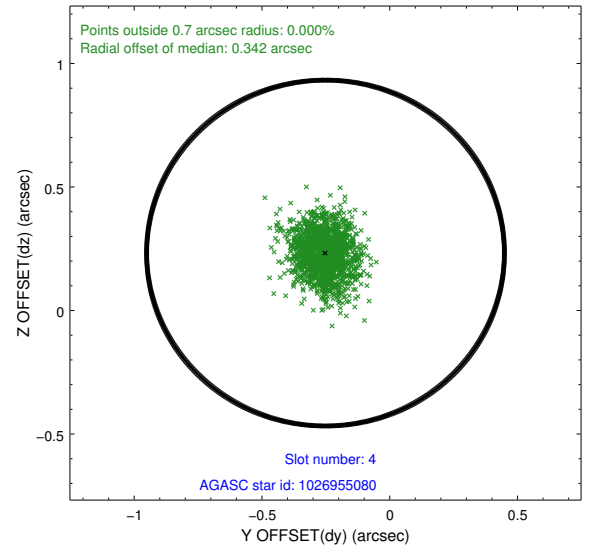
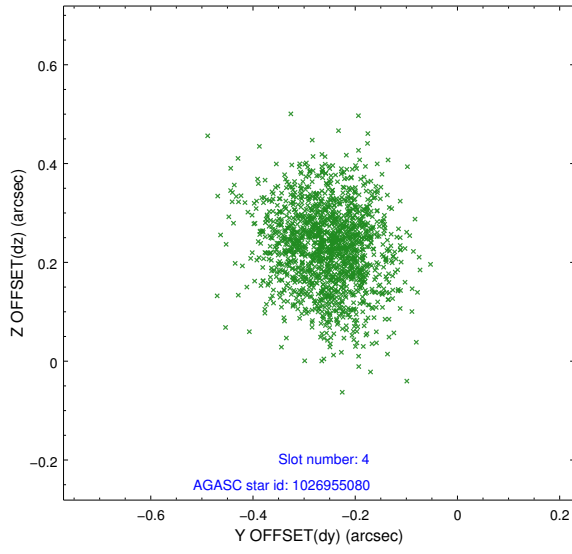
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.12 | 771 | -0.048 | 0.007 | 0.007 | 0.012 | 0.000000 | 0.000000 | -754.67 | -1727.62 |
| 1 | FID | ACIS-S-4 | 7.20 | 771 | -0.012 | 0.021 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2157.71 | 178.85 |
| 2 | FID | ACIS-S-5 | 7.24 | 771 | 0.030 | -0.019 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1804.86 | 174.71 |
| 3 | GUIDE | 1025246560 | 9.09 | 1542 | 0.013 | -0.073 | 0.085 | 0.135 | 229.542060 | -37.711196 | 182.22 | 1308.62 |
| 4 | GUIDE | 1026955080 | 9.86 | 1542 | -0.251 | 0.233 | 0.113 | 0.184 | 230.737244 | -37.540170 | 2078.32 | -1587.92 |
| 5 | GUIDE | 1025248856 | 9.23 | 1541 | 0.355 | -0.198 | 0.114 | 0.178 | 229.030724 | -38.125562 | -1763.08 | 2045.03 |
| 6 | GUIDE | 1026965504 | 9.29 | 1541 | 0.054 | -0.280 | 0.187 | 0.268 | 230.327090 | -38.711825 | -2262.10 | -2145.49 |
| 7 | GUIDE | 1026957848 | 9.47 | 1540 | -0.161 | 0.331 | 0.111 | 0.180 | 230.624507 | -38.223347 | -316.64 | -2240.56 |

2.4 Star Slots

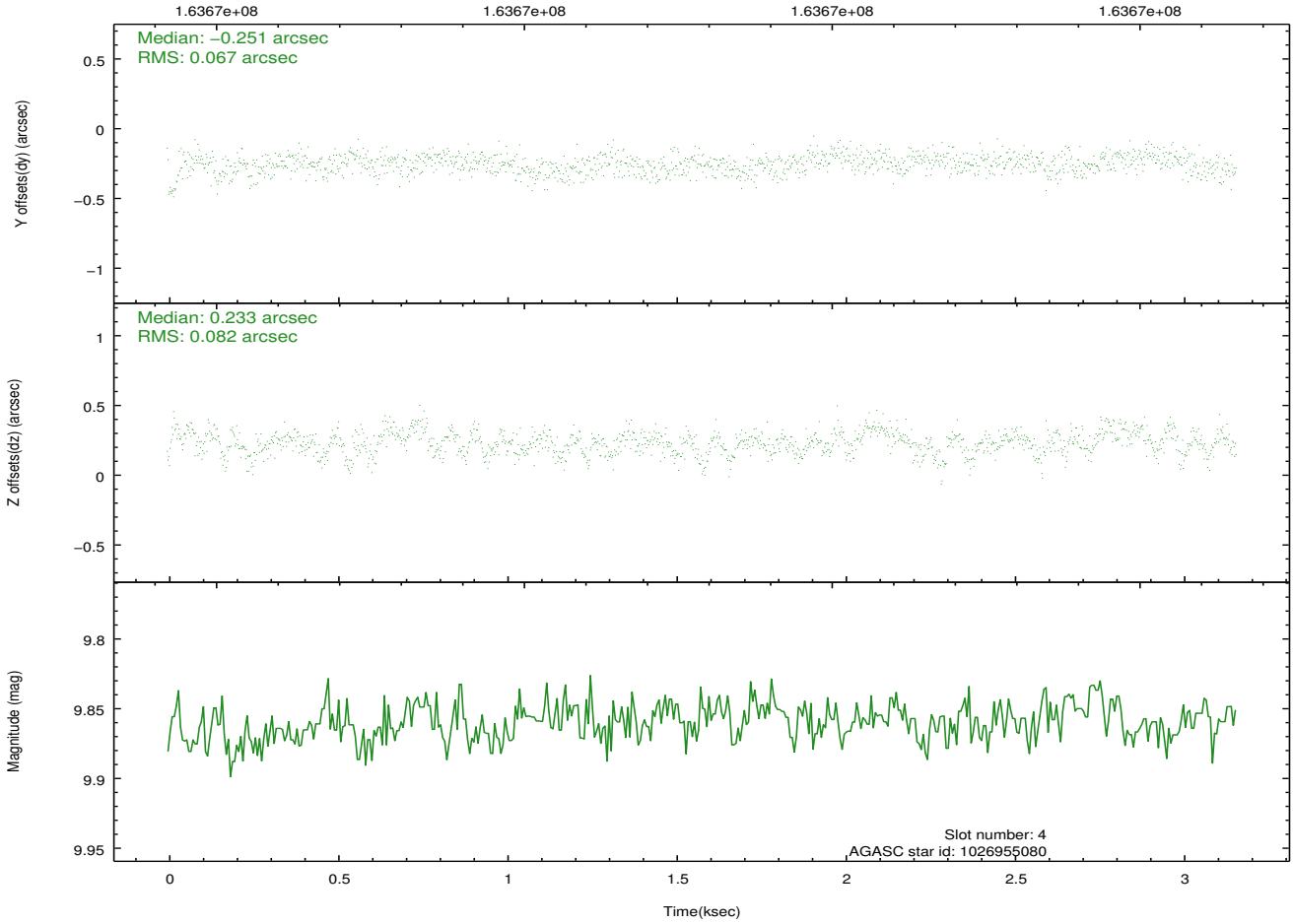
2.4.1 Slot 3



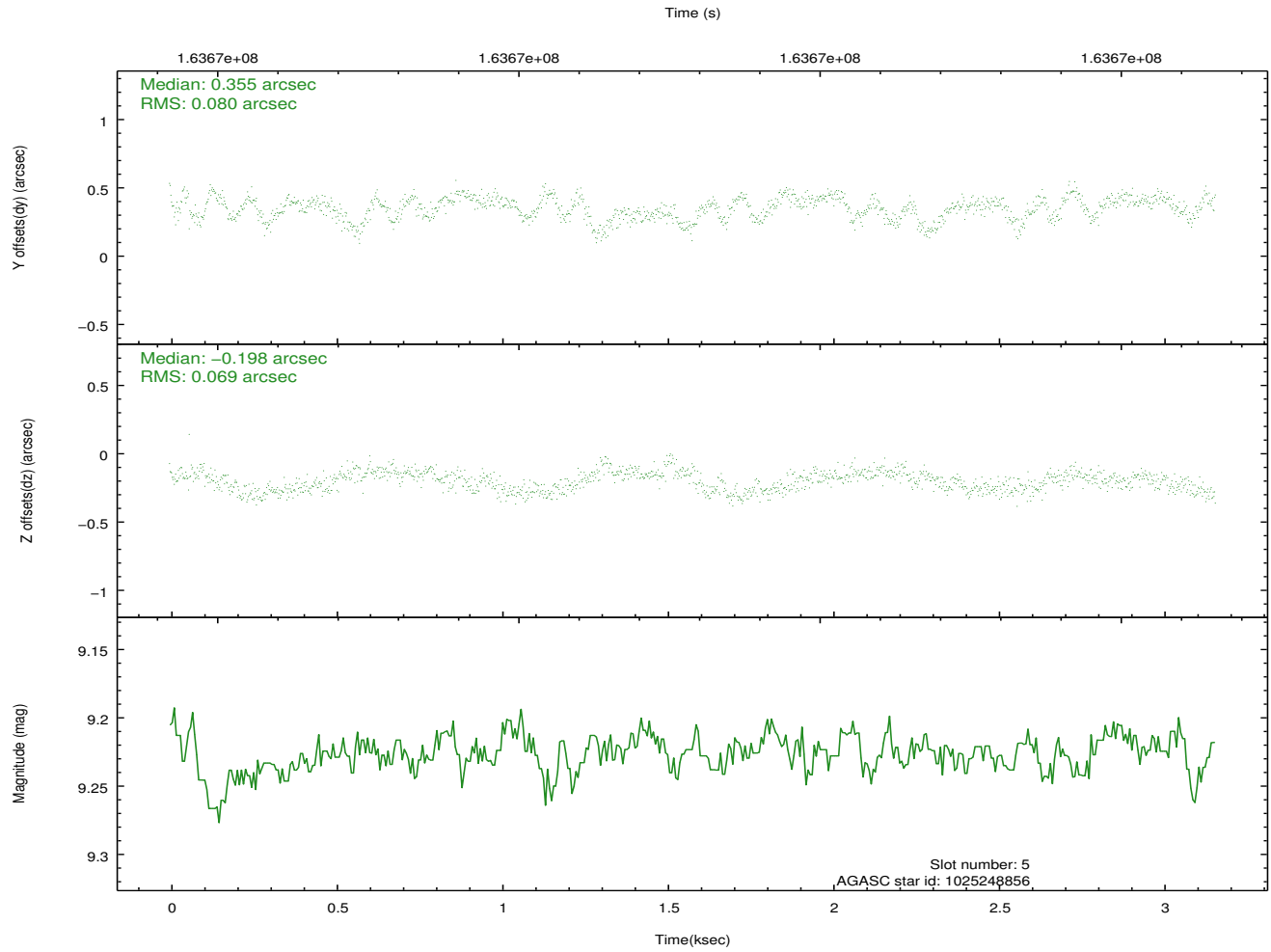
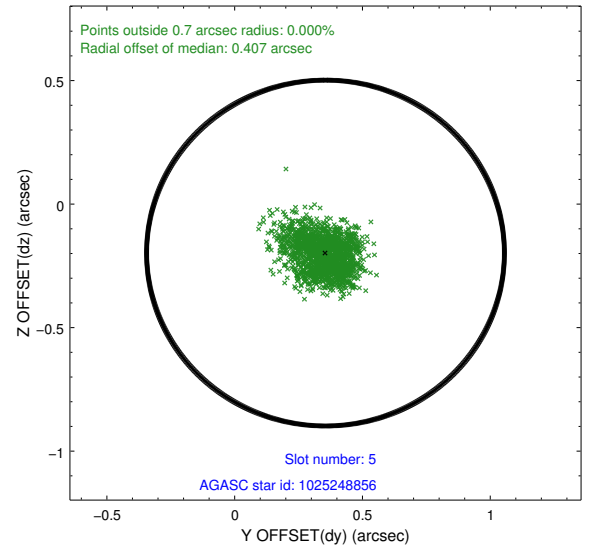
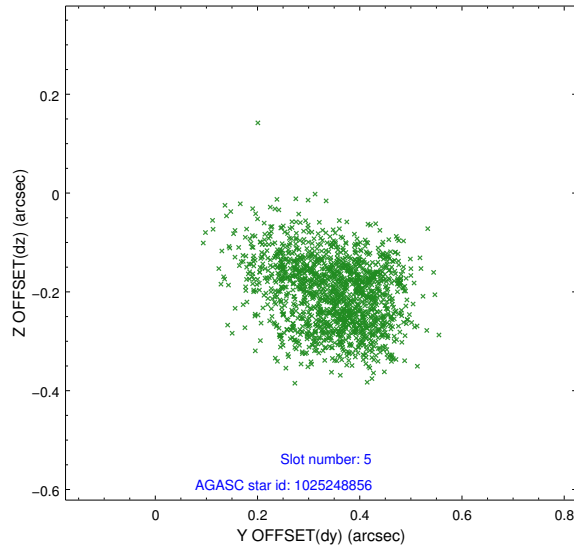
2.4.2 Slot 4



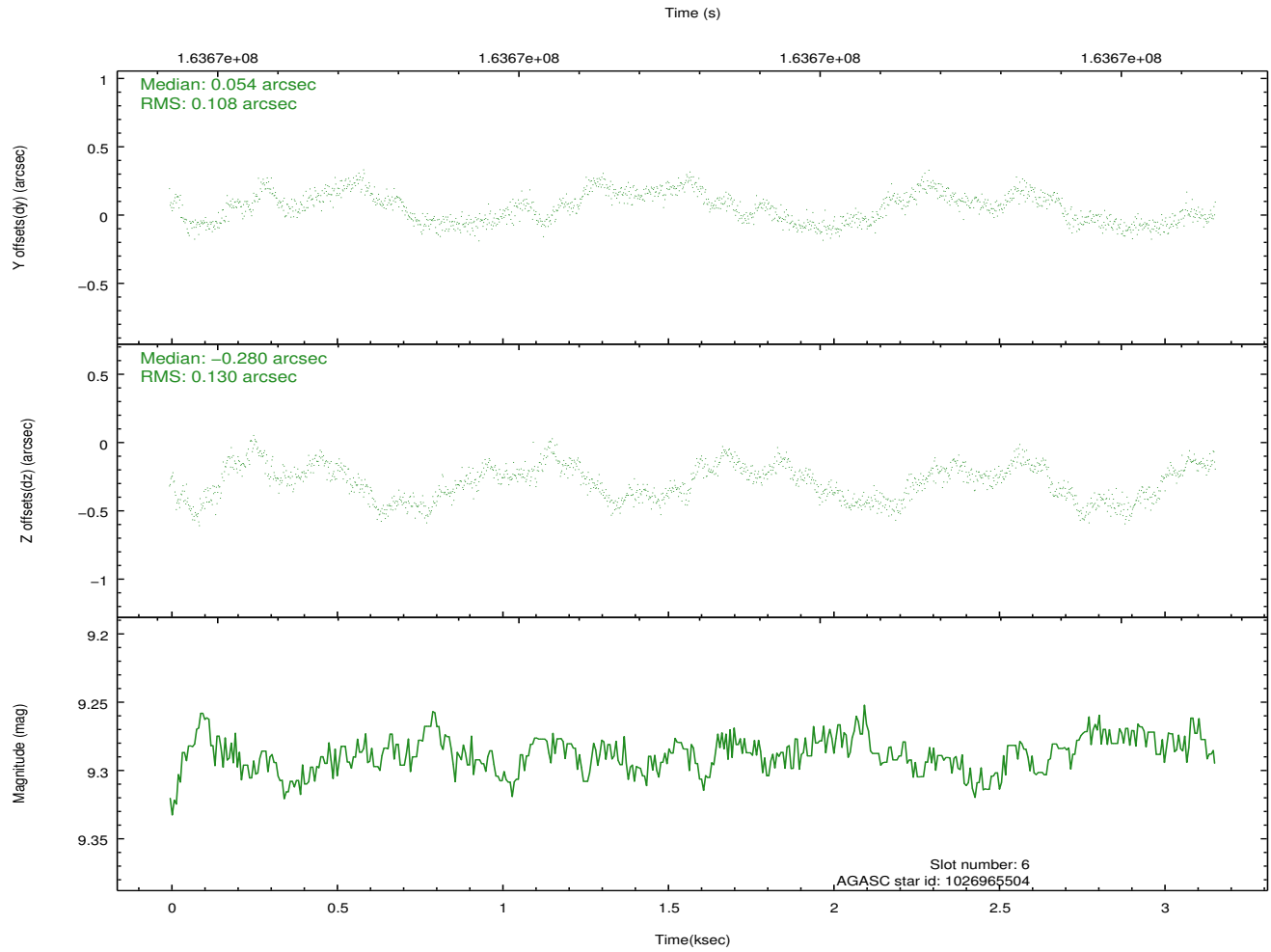
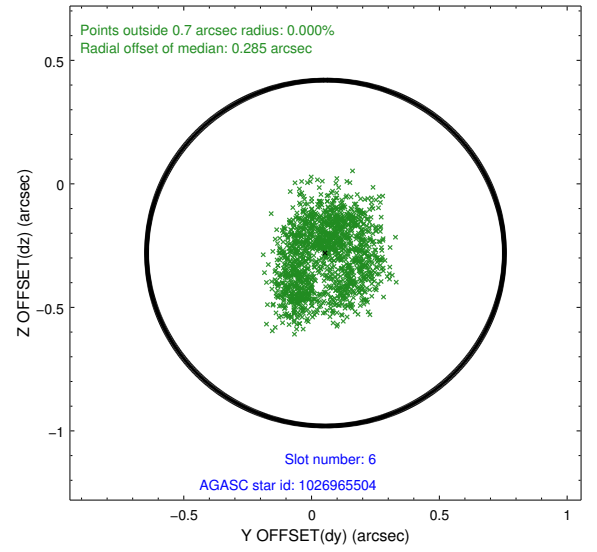
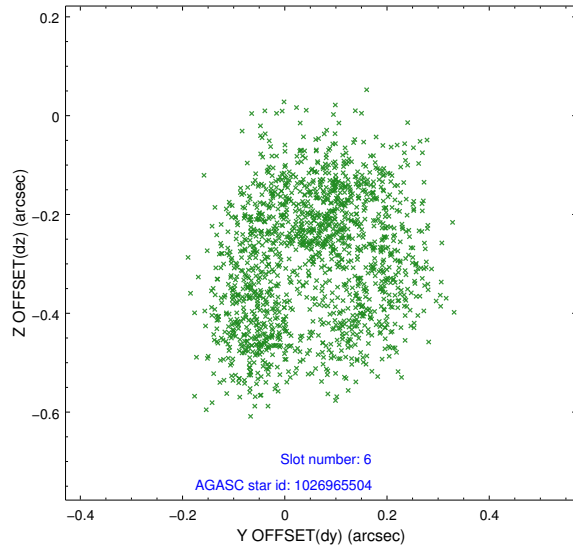
Time (s)



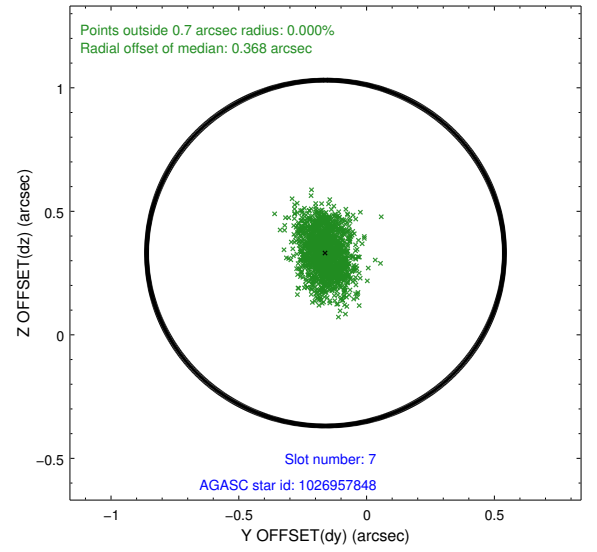
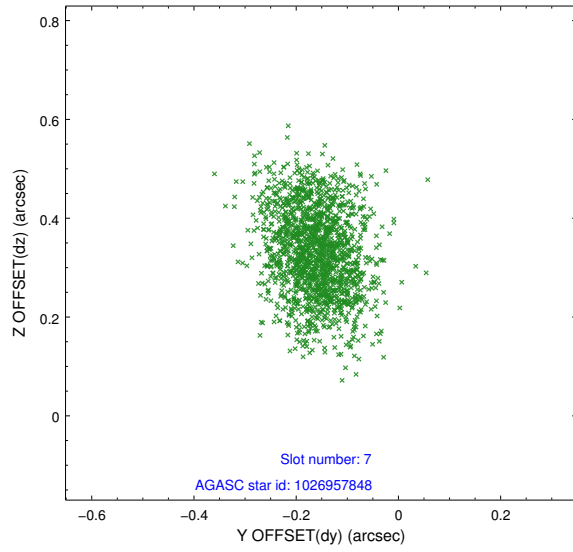
2.4.3 Slot 5



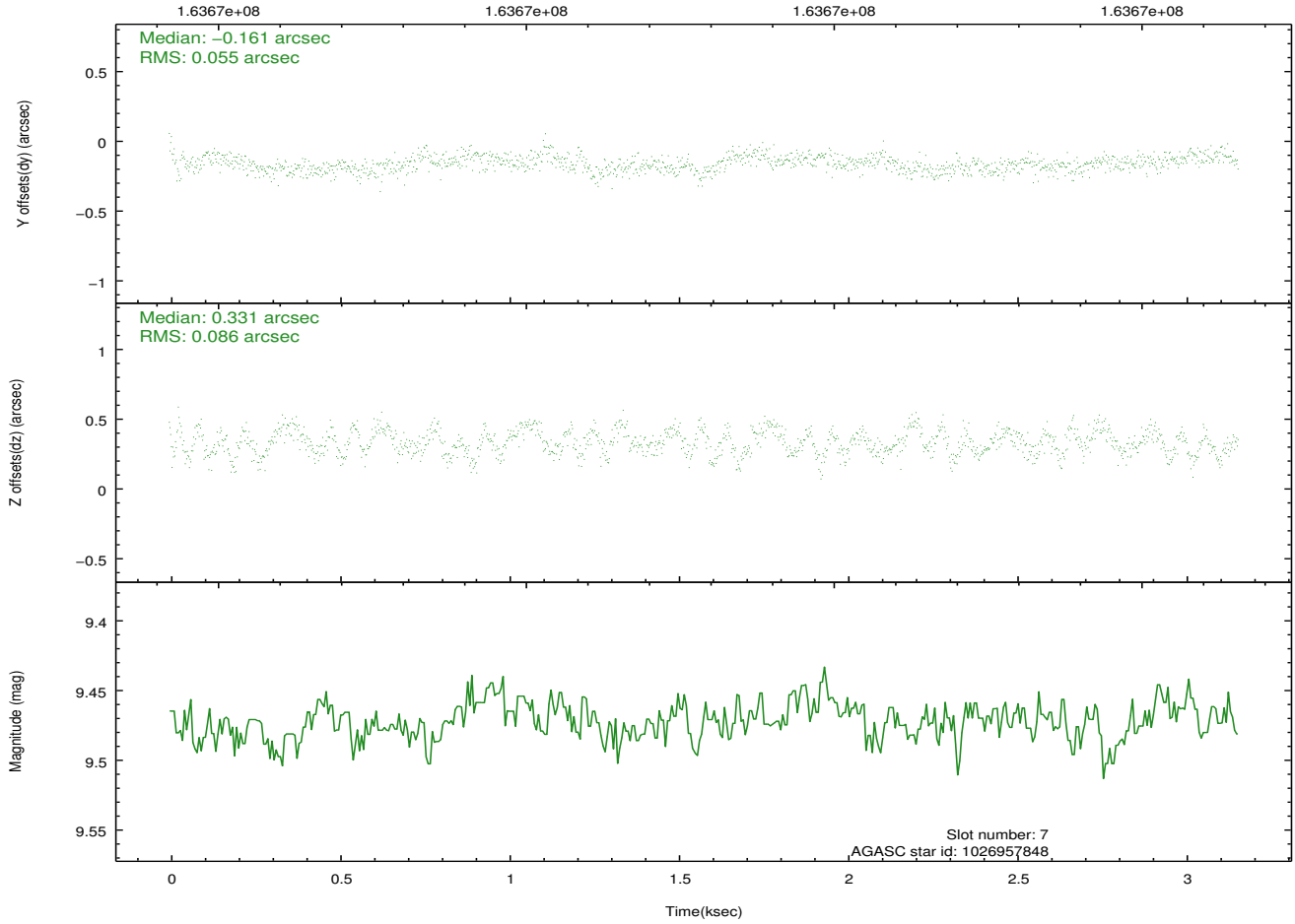
2.4.4 Slot 6



2.4.5 Slot 7

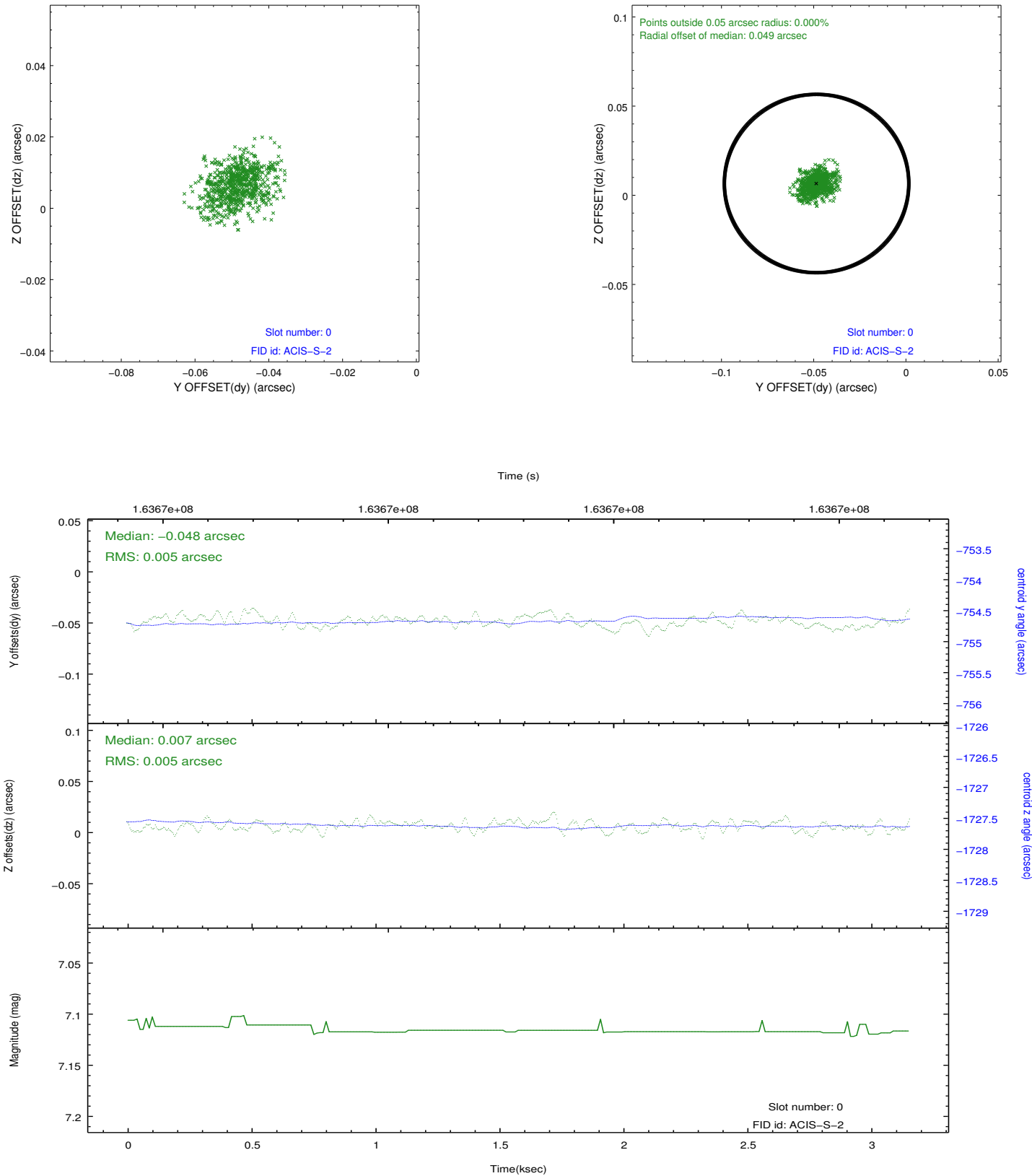


Time (s)

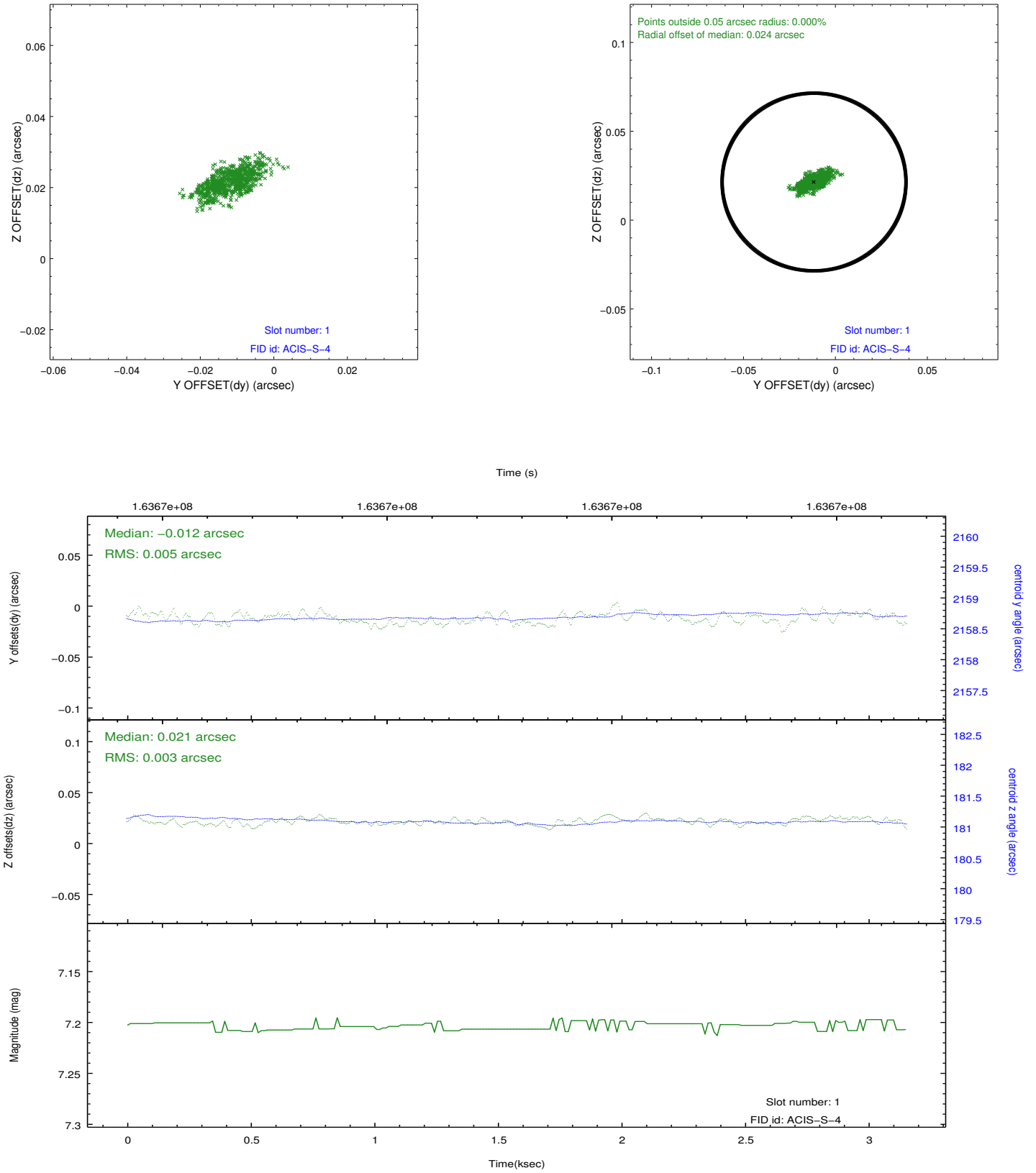


2.5 FID Slots

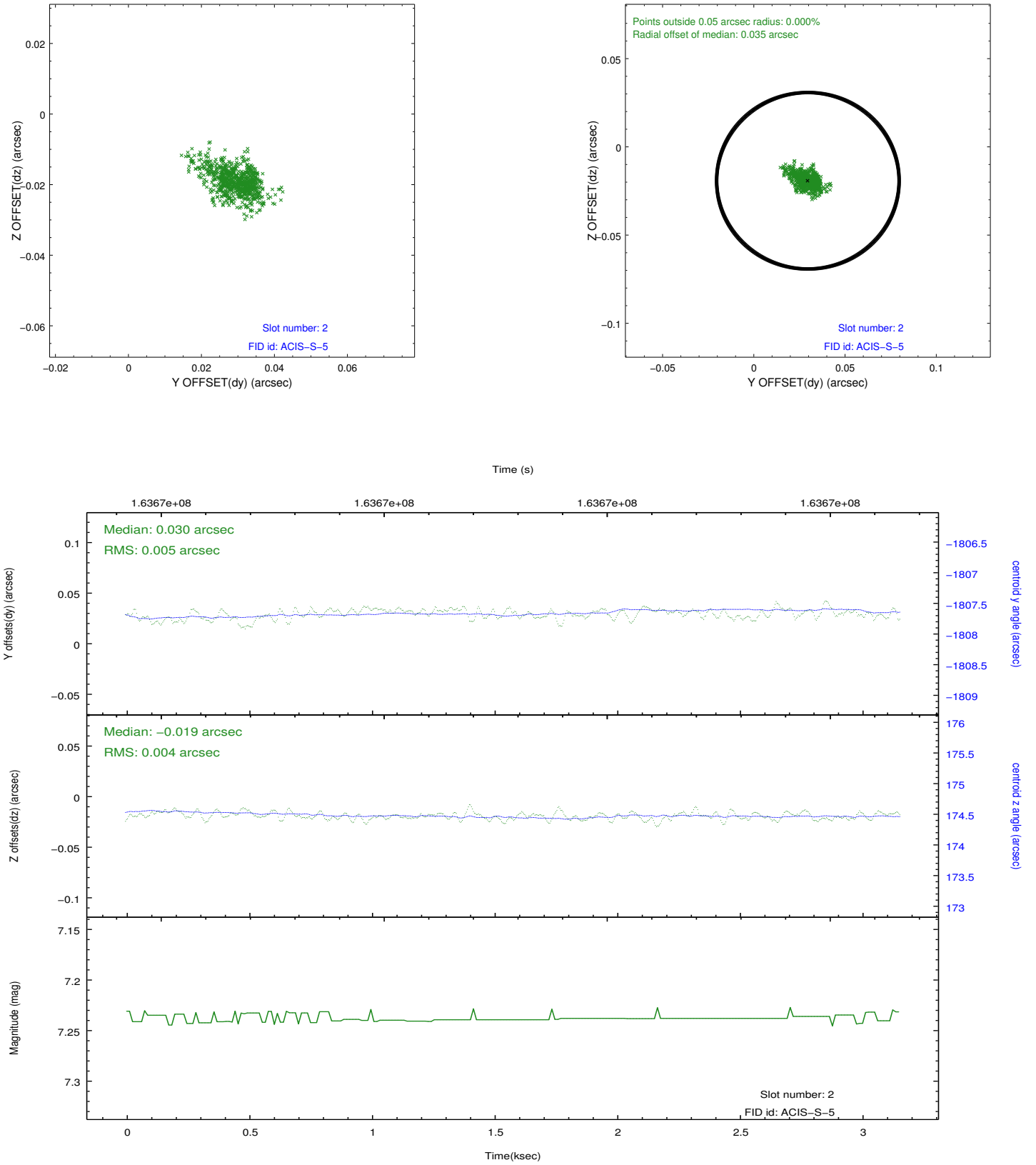
2.5.1 Slot 0



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) | 2012.12.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.852 |

A.2 Comments

Subarray startrow thing.