

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9189 - L2 Version 2
Chandra X-Ray Center

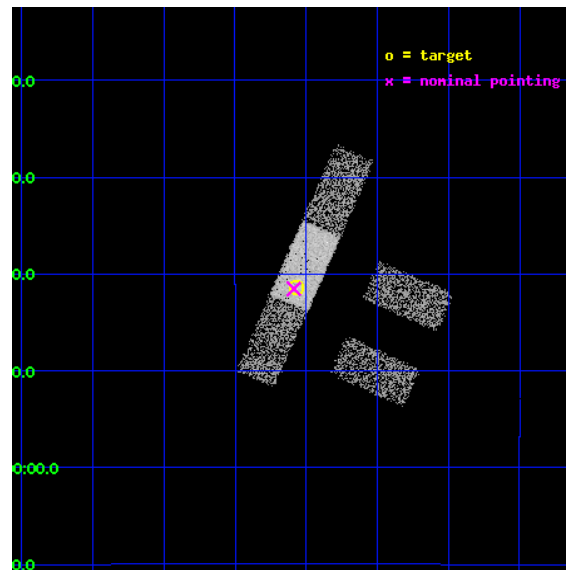
L2 Processing Date : May 7 2012

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| A | Summary | 17 |
| A.1 | Status | 17 |
| A.2 | Comments | 17 |

1 Front

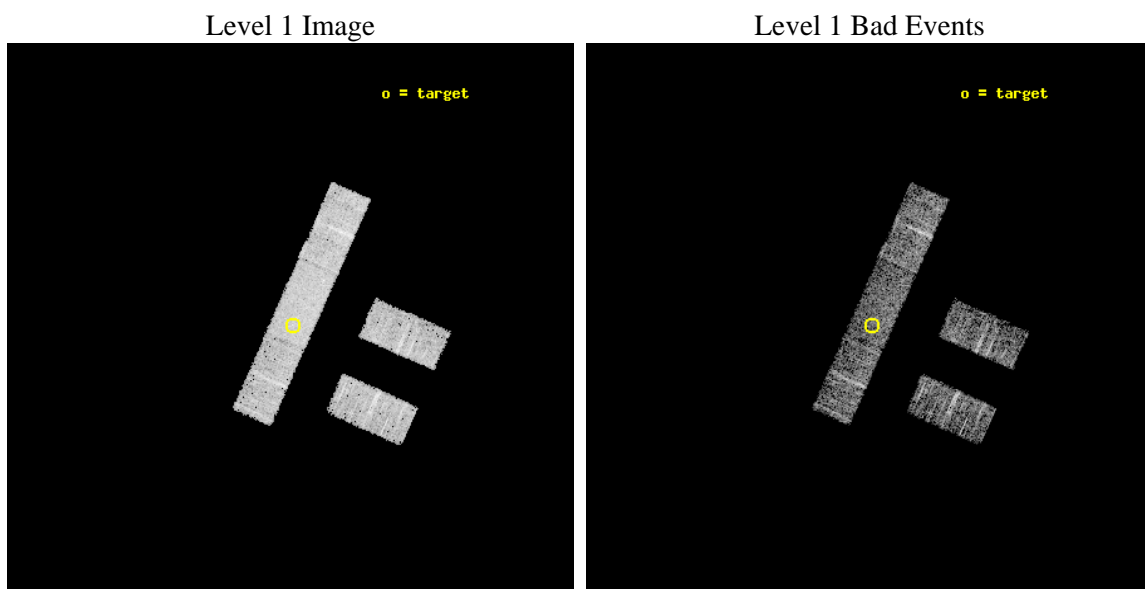
| | | |
|----------|---|---|
| seq_num | 701631 | Sequence number |
| obs_id | 9189 | Observation id |
| title | Lower Luminosity AGNs at Cosmologically Interesting Redshifts: SEDs and Accretion Rates of $z \sim 0.36$ Seyferts | Proposal title |
| observer | Dr. Sarah Gallagher | Principal investigator |
| object | S06 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 320.1425 | Observer's specified target RA [deg] |
| dec_targ | -6.6895 | Observer's specified target Dec [deg] |
| ra_nom | 320.1465919475 | Nominal RA [deg] |
| dec_nom | -6.6923247321542 | Nominal Dec [deg] |
| roll_nom | 294.02895638706 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 3134.7999780774 | Sum of GTIs [s] |
| livetime | 3060.9061036688 | Livetime [s] |
| ontime2 | 3134.7999780774 | Sum of GTIs [s] |
| ontime3 | 3134.7999780774 | Sum of GTIs [s] |
| ontime6 | 3134.7999780774 | Sum of GTIs [s] |
| ontime7 | 3134.7999780774 | Sum of GTIs [s] |
| ontime8 | 3134.7999780774 | Sum of GTIs [s] |
| l2events | 16371 | Number of level 2 events |



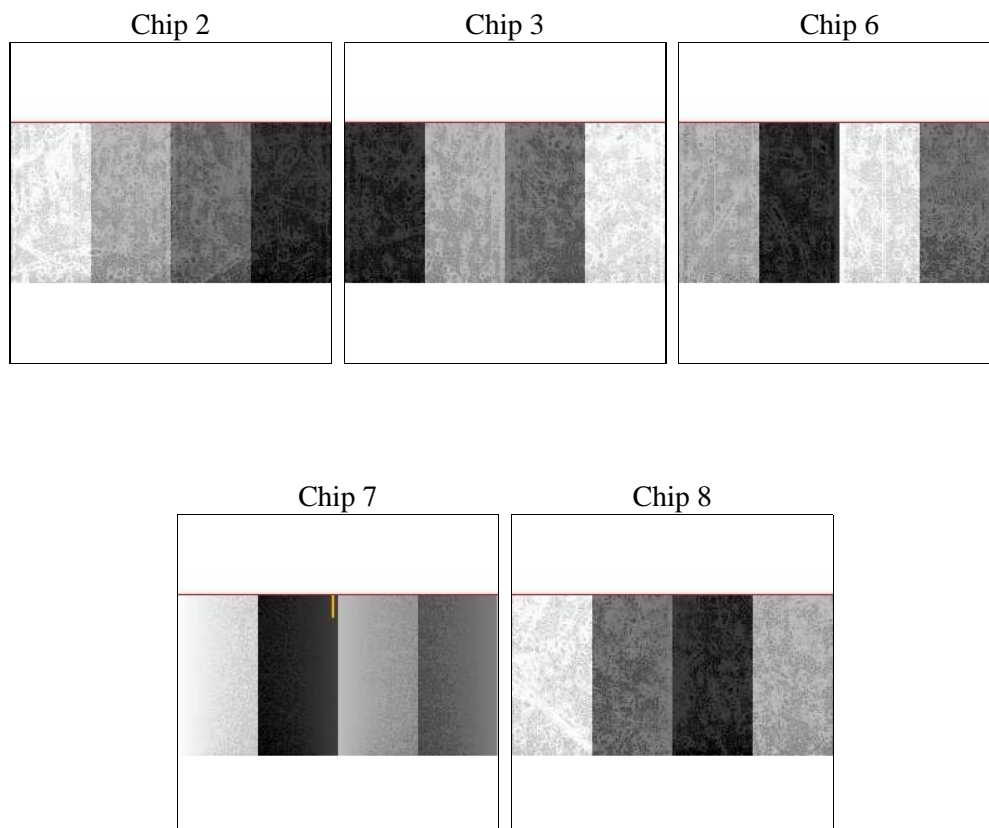
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 3000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 3134.7999780774 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 3134.7999780774 | Sum of GTIs [s] |
| date | 2012-05-07T02:54:07 | Date and time of file creation | ontime3 | 3134.7999780774 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 3134.7999780774 | Sum of GTIs [s] |
| | | | ontime7 | 3134.7999780774 | Sum of GTIs [s] |
| | | | ontime8 | 3134.7999780774 | Sum of GTIs [s] |
| | | | l1events | 105139 | Number of level 1 events |

2.1.4 Events

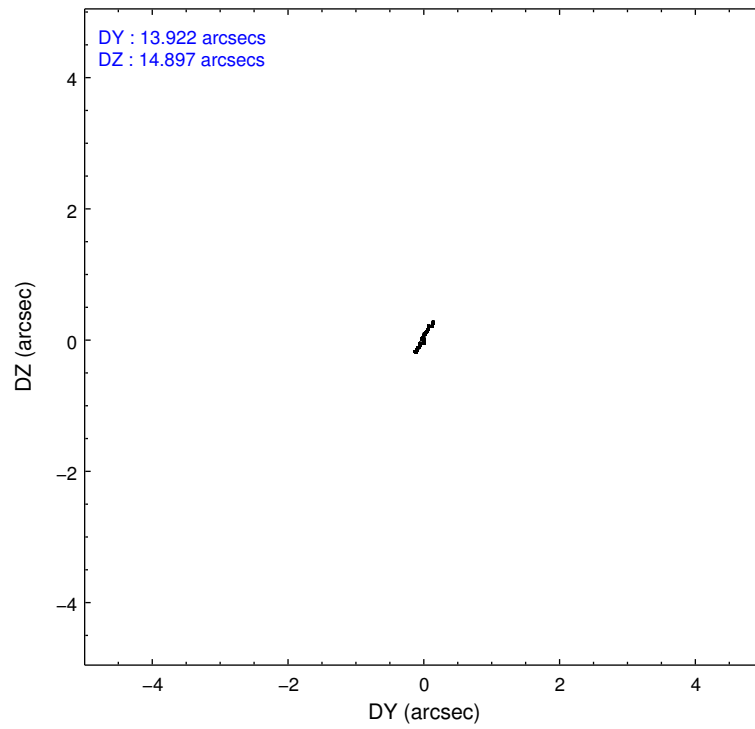
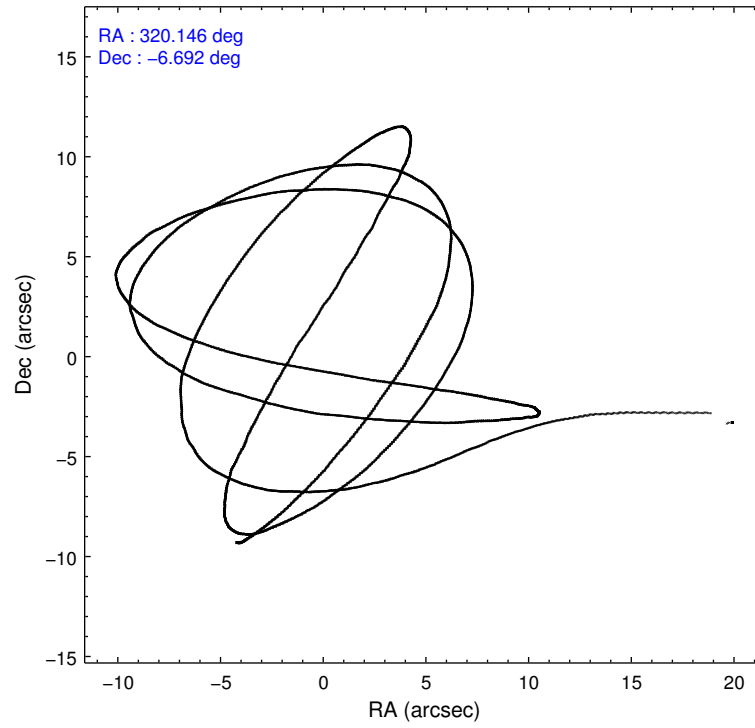
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 18438 | 18050 | 18394 | 25580 | 24677 |
| rejected events | 16524 | 16173 | 16301 | 15911 | 20004 |
| rejected % | 89% | 89% | 88% | 62% | 81% |

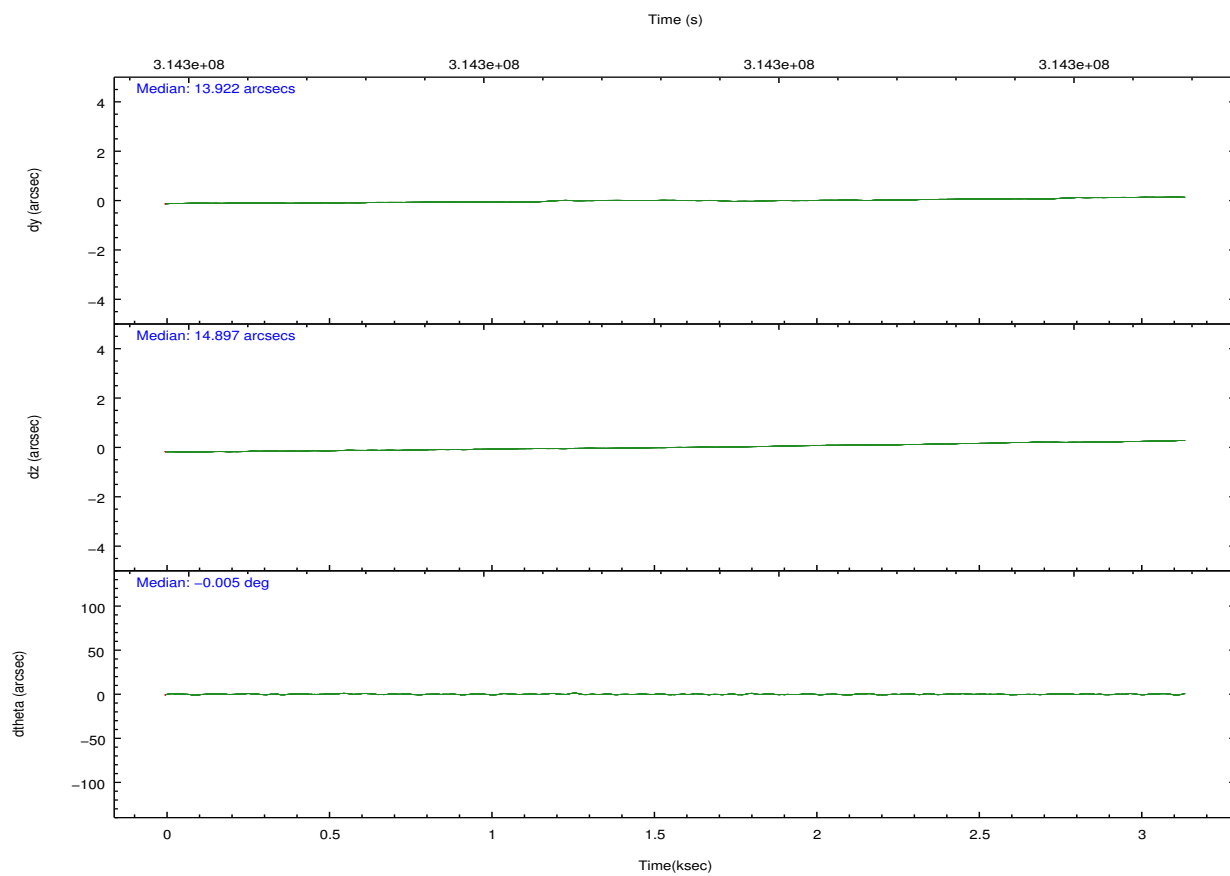
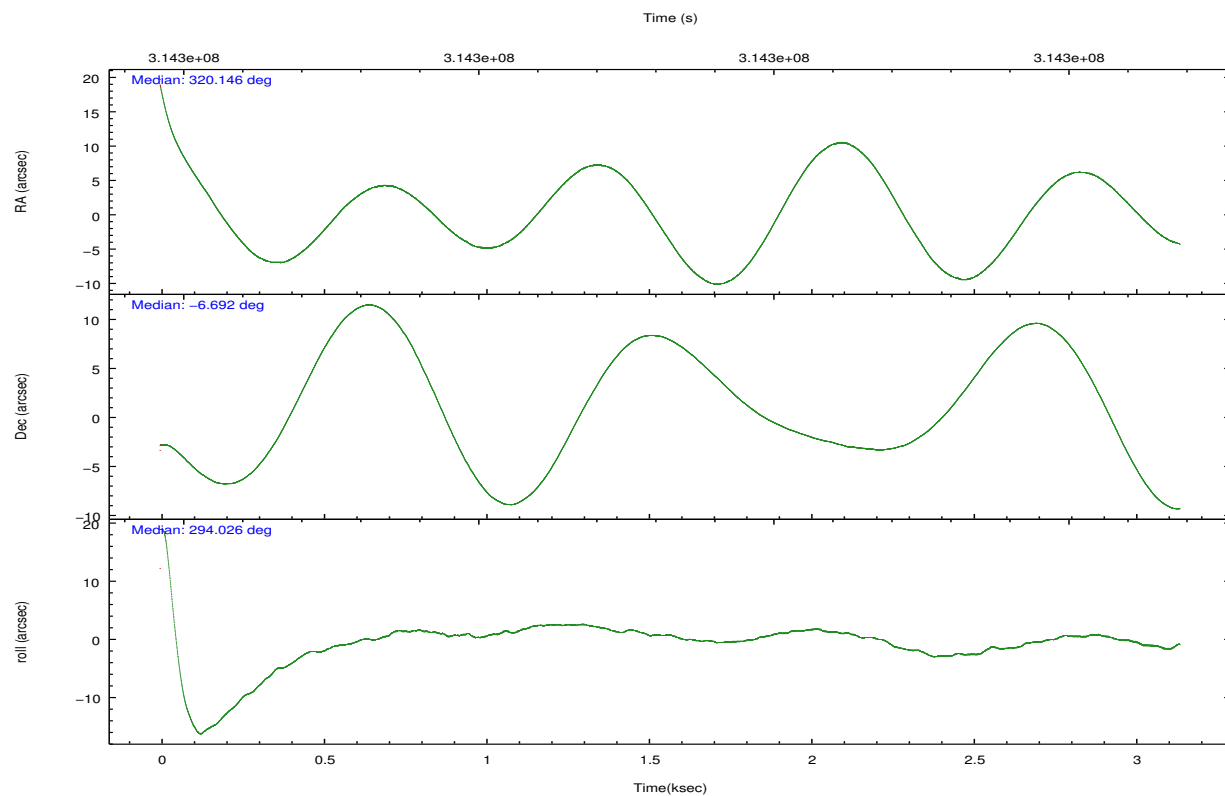
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 969 | 901 | 924 | 1047 | 1560 |
| | 5% | 4% | 5% | 4% | 6% |
| grade 1 events | 11 | 6 | 3 | 15 | 13 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 448 | 436 | 491 | 2299 | 1239 |
| | 2% | 2% | 2% | 8% | 5% |
| grade 3 events | 216 | 276 | 257 | 1056 | 546 |
| | 1% | 1% | 1% | 4% | 2% |
| grade 4 events | 253 | 230 | 279 | 1008 | 515 |
| | 1% | 1% | 1% | 3% | 2% |
| grade 5 events | 709 | 795 | 880 | 2445 | 1177 |
| | 3% | 4% | 4% | 9% | 4% |
| grade 6 events | 330 | 378 | 486 | 5771 | 1445 |
| | 1% | 2% | 2% | 22% | 5% |
| grade 7 events | 15502 | 15028 | 15074 | 11939 | 18182 |
| | 84% | 83% | 81% | 46% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-23678 | ACIS-23678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 320.124034 | 320.1465919474971 | CCD I2 on | O1 | Y |
| [deg] Pointing Dec | -6.676479 | -6.692324732154196 | CCD I3 on | Y | Y |
| [deg] Pointing Roll | 293.869577 | 294.0289563870572 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | Y | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | CCD S4 on | Y | Y |
| [s] Observation start time (MET) | 314302213.184000 | 314301183.6308 | CCD S5 on | N | N |
| Observation start date | 2007-12-17T18:09:08 | 2007-12-17T17:53:03 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 314305213.184000 | 314306396.26855 | On-chip summing requested | N | N |
| Observation end date | 2007-12-17T18:59:08 | 2007-12-17T19:19:56 | Subarray requested | CUSTOM | 1/2 |
| Read mode | TIMED | TIMED | Subarray start row | 257 | 257 |
| | | | Subarray row count | 512 | 512 |
| | | | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 1.7 |

2.3 Aspect



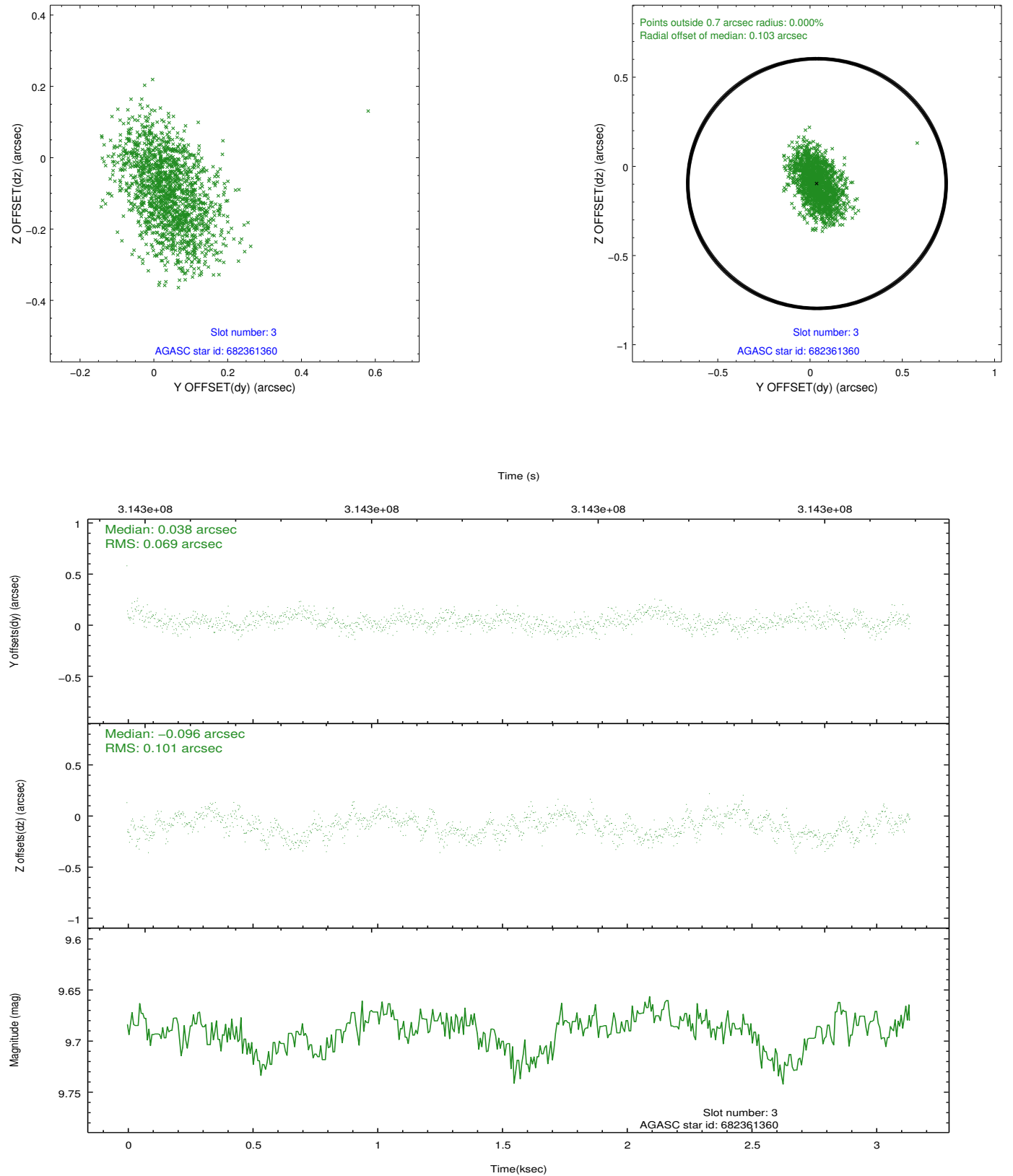


Slot Statistics

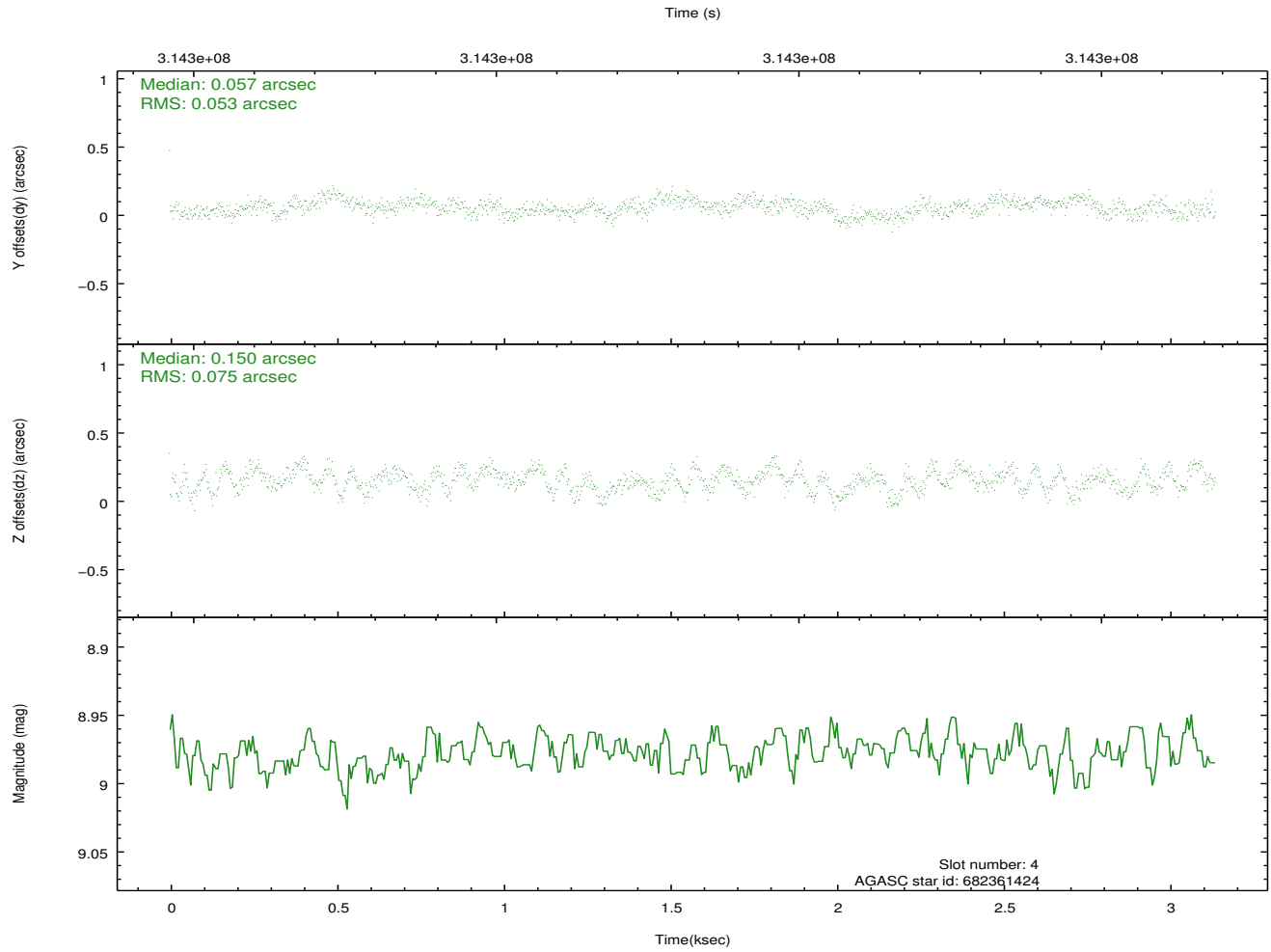
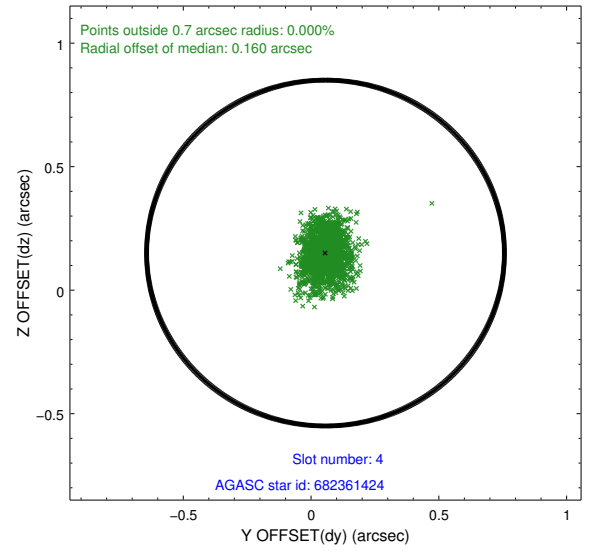
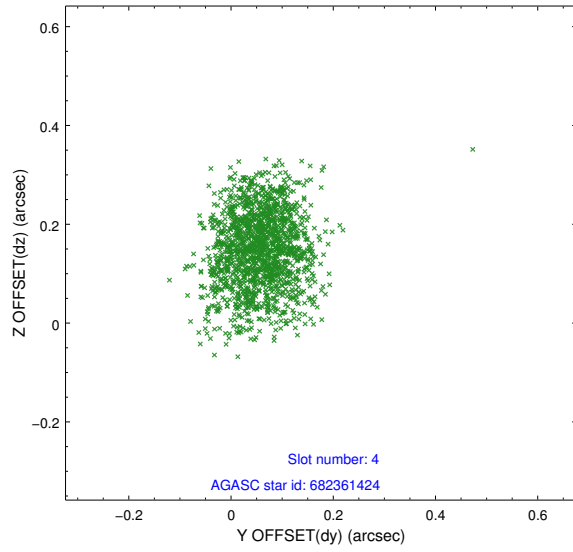
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.09 | 766 | -0.072 | -0.031 | 0.007 | 0.011 | 0.000000 | 0.000000 | -766.91 | -1736.33 |
| 1 | FID | ACIS-S-4 | 7.19 | 766 | 0.197 | 0.043 | 0.006 | 0.012 | 0.000000 | 0.000000 | 2145.69 | 170.15 |
| 2 | FID | ACIS-S-5 | 7.22 | 765 | -0.156 | -0.003 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1817.25 | 166.04 |
| 3 | GUIDE | 682361360 | 9.69 | 1531 | 0.038 | -0.096 | 0.130 | 0.213 | 319.700329 | -6.610924 | -827.76 | -1290.49 |
| 4 | GUIDE | 682361424 | 8.98 | 1531 | 0.057 | 0.150 | 0.098 | 0.156 | 319.407325 | -6.666576 | -1068.10 | -2330.34 |
| 5 | GUIDE | 682363512 | 9.50 | 1529 | 0.065 | 0.017 | 0.124 | 0.191 | 319.987498 | -6.990026 | 834.66 | -904.04 |
| 6 | GUIDE | 682363528 | 7.96 | 1532 | 0.005 | -0.046 | 0.075 | 0.126 | 319.749181 | -7.138911 | 982.07 | -1898.52 |
| 7 | GUIDE | 682366568 | 7.87 | 1531 | -0.165 | -0.010 | 0.073 | 0.116 | 319.717257 | -6.439197 | -1368.54 | -986.26 |

2.4 Star Slots

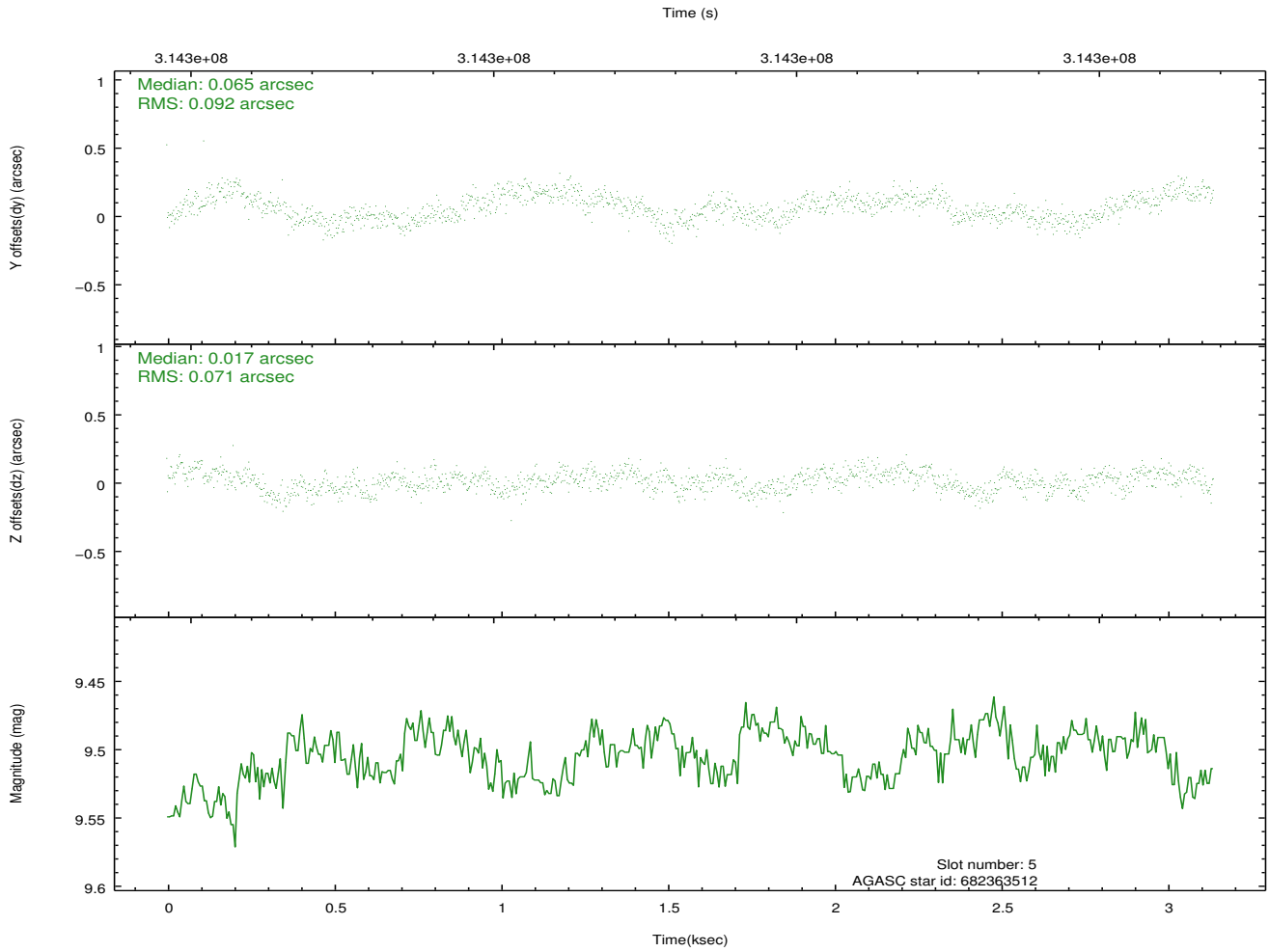
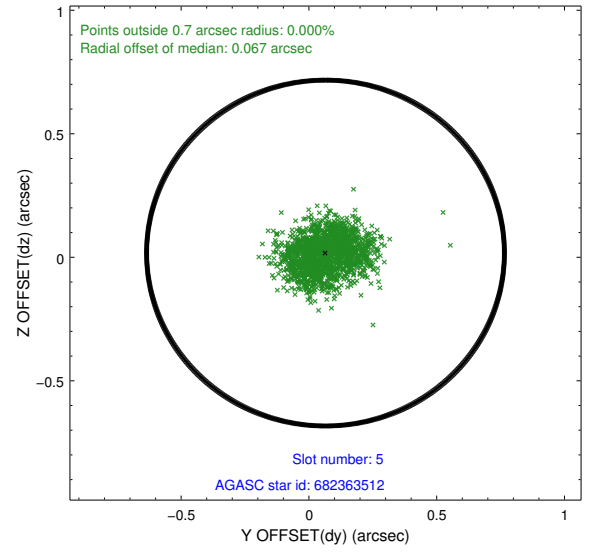
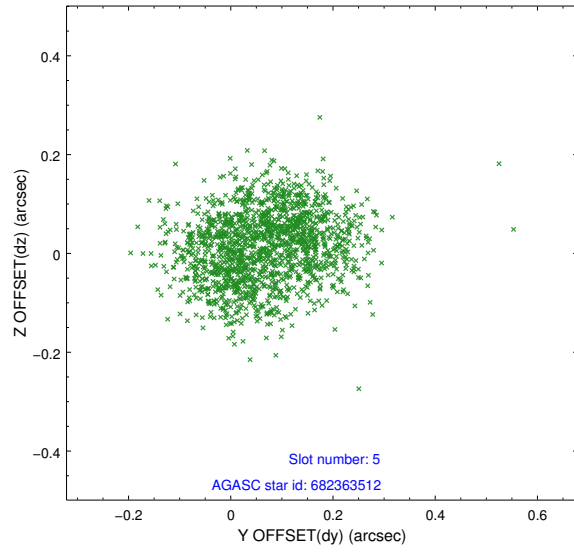
2.4.1 Slot 3



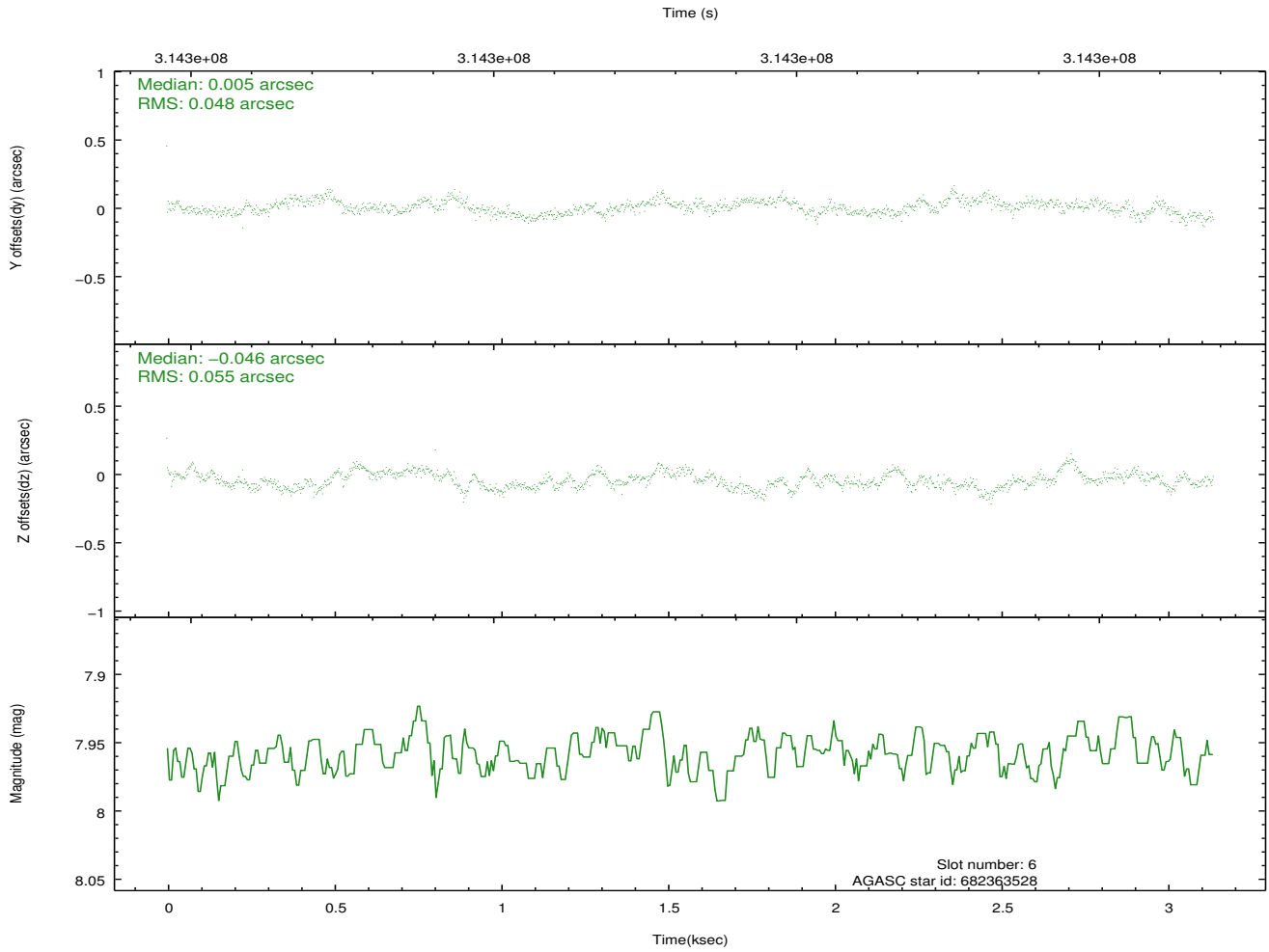
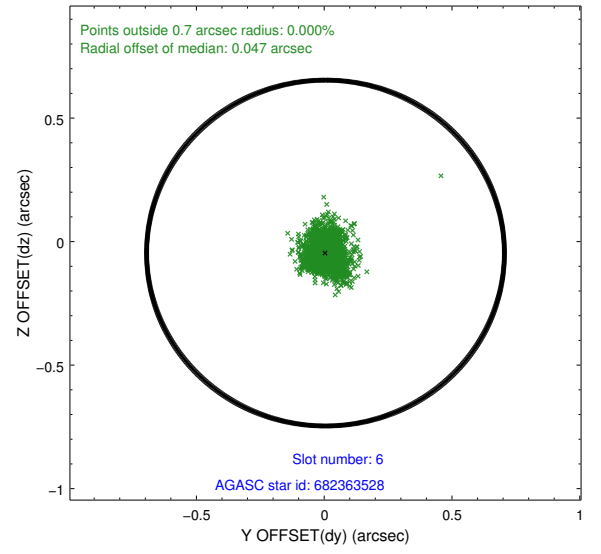
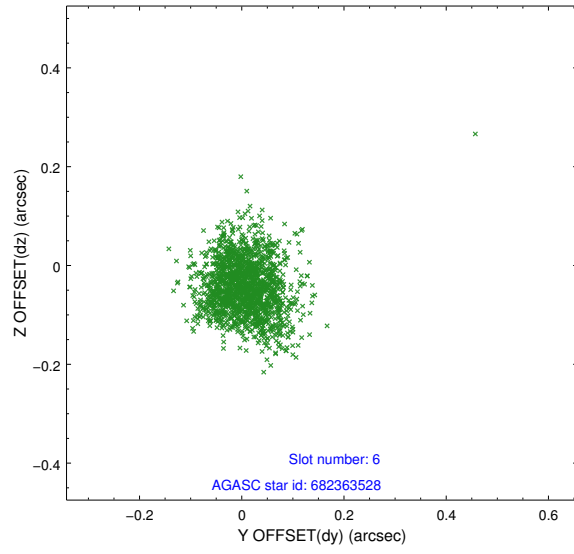
2.4.2 Slot 4



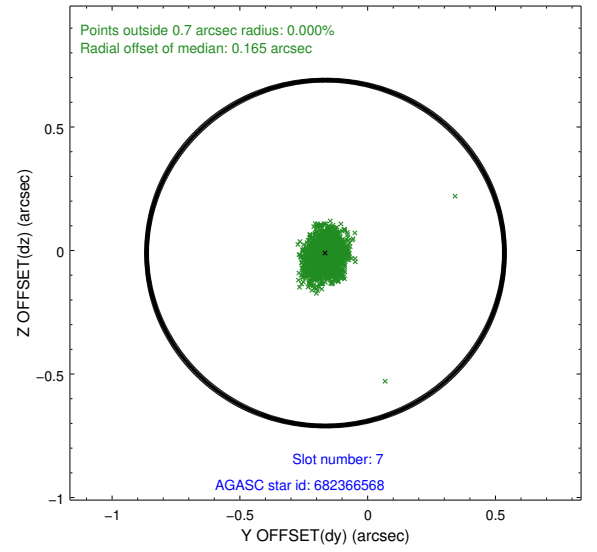
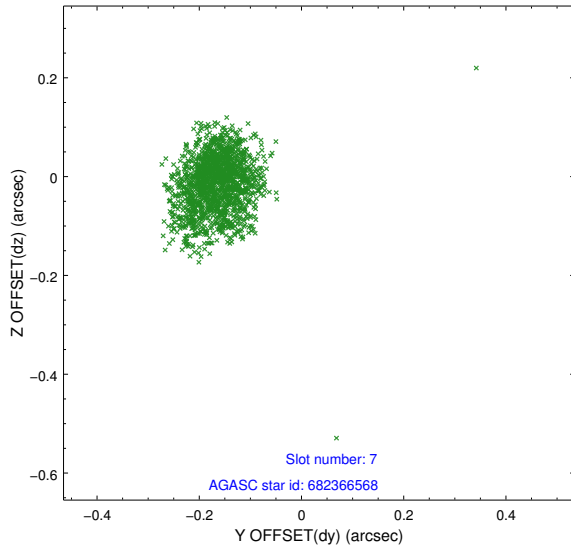
2.4.3 Slot 5



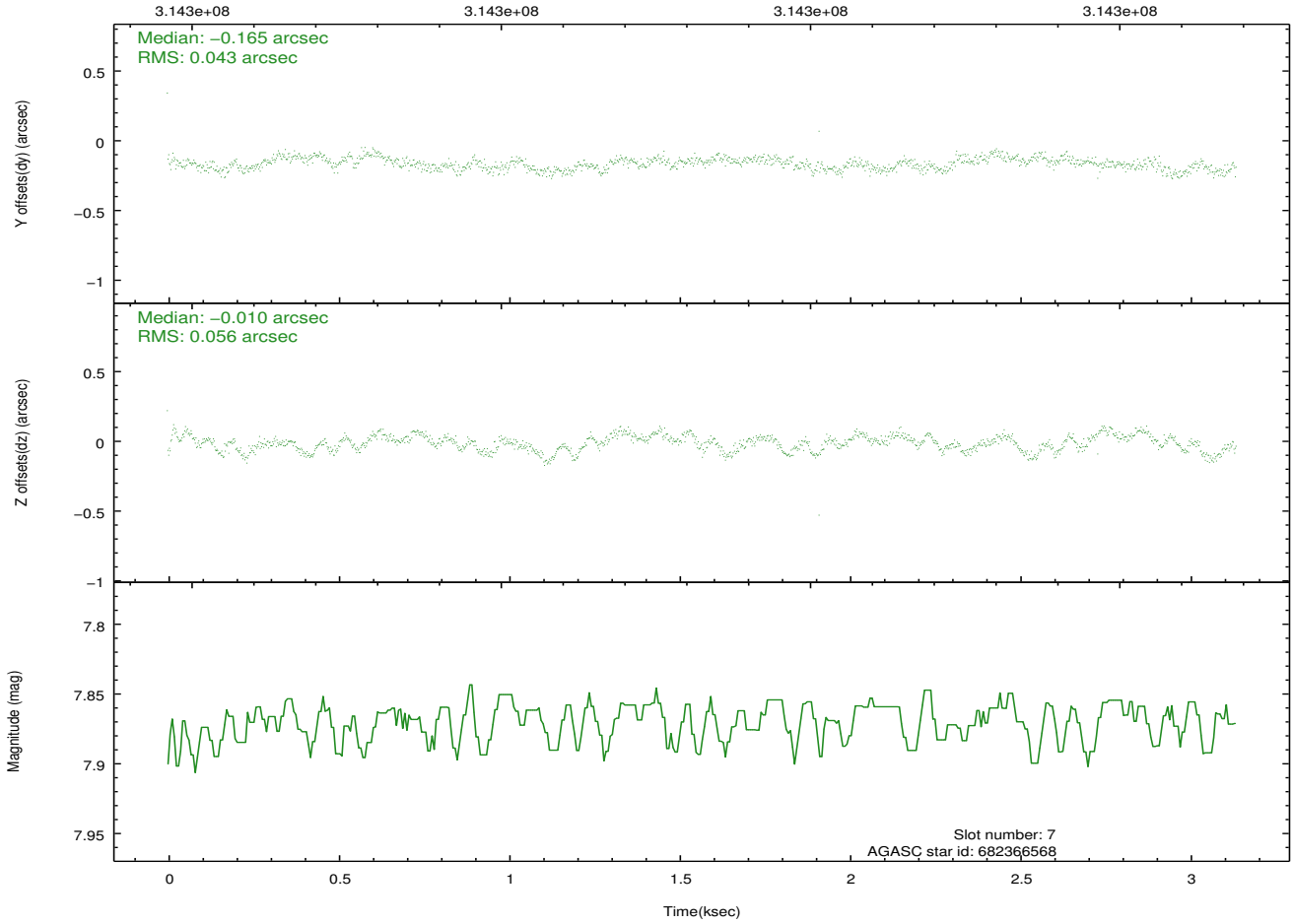
2.4.4 Slot 6



2.4.5 Slot 7

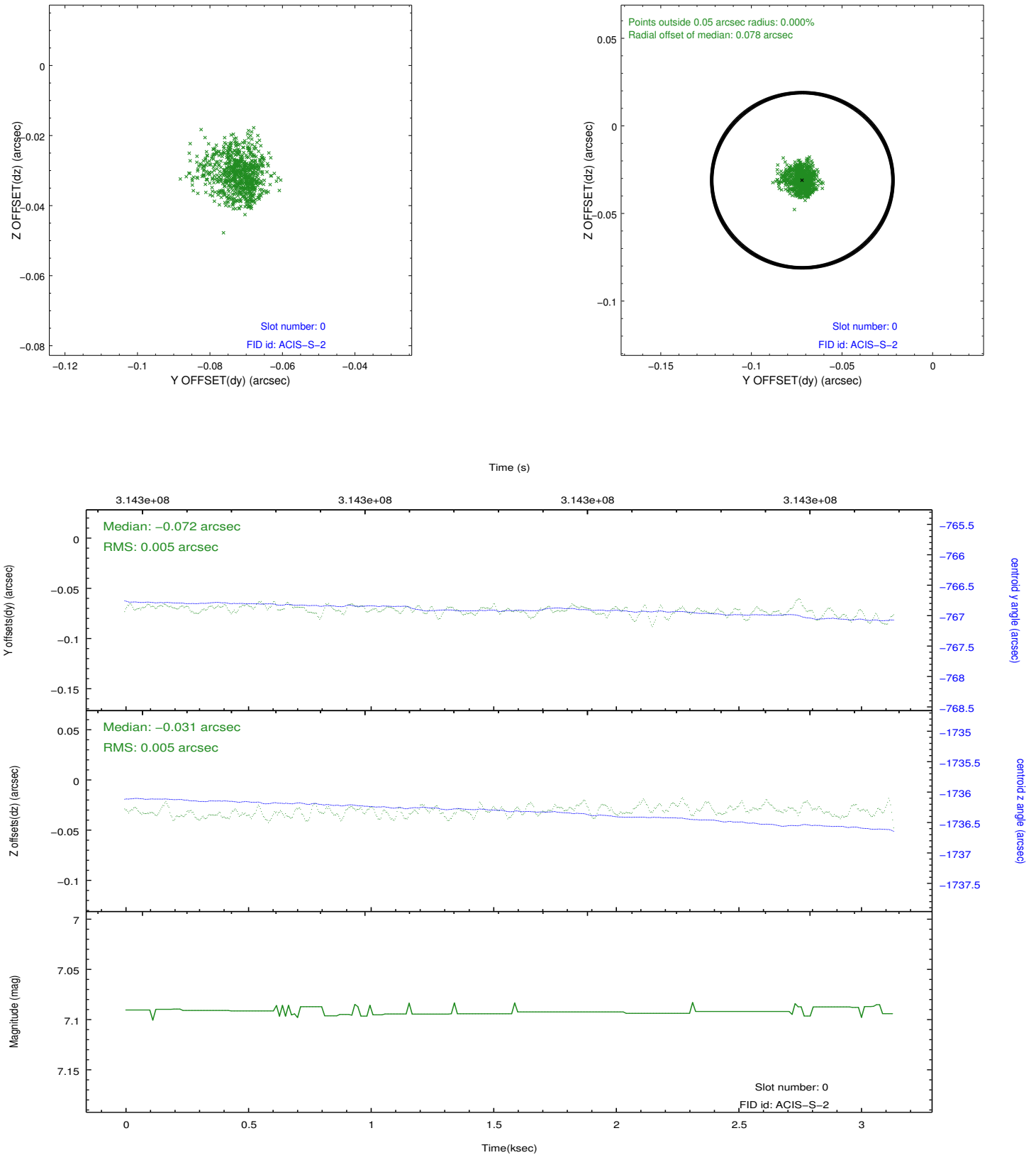


Time (s)

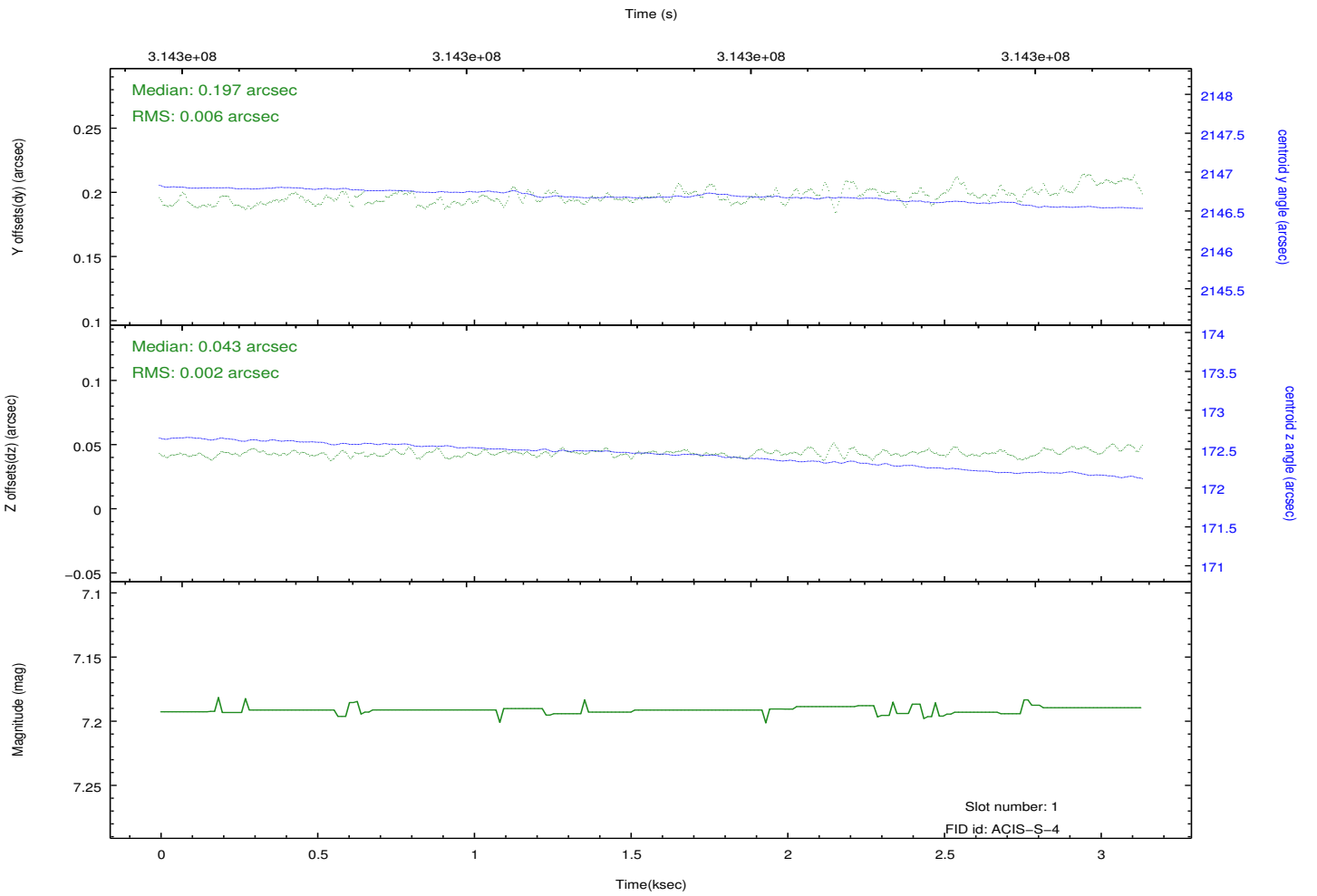
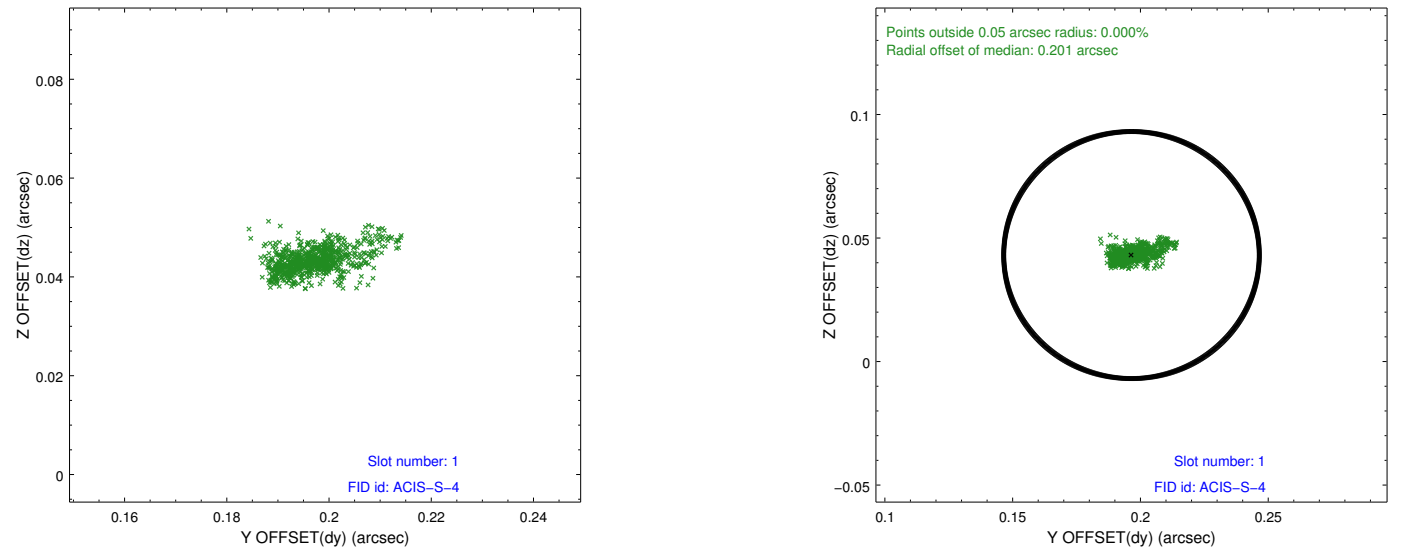


2.5 FID Slots

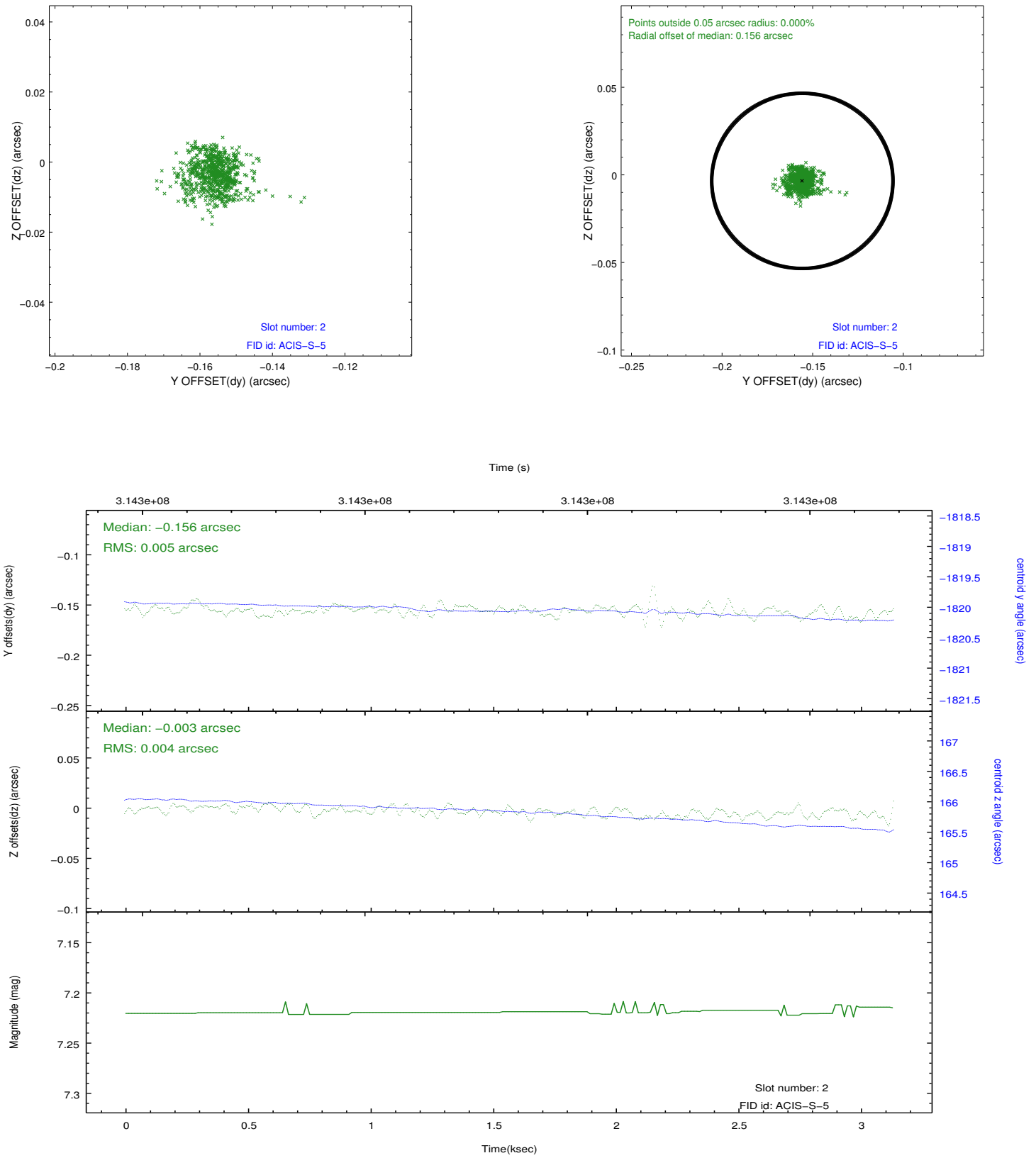
2.5.1 Slot 0



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) | 2012.05.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.13479997 |

A.2 Comments

Joint proposal: HST+Spitzer