

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 17183 - L2 Version 1
Chandra X-Ray Center

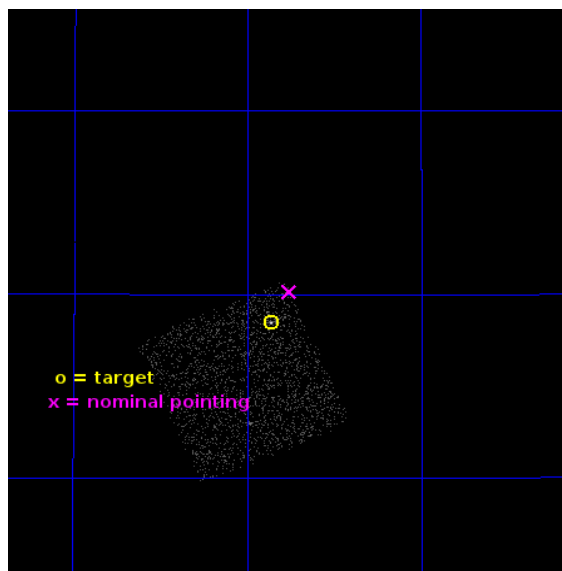
L2 Processing Date : Jan 24 2016

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1 Front

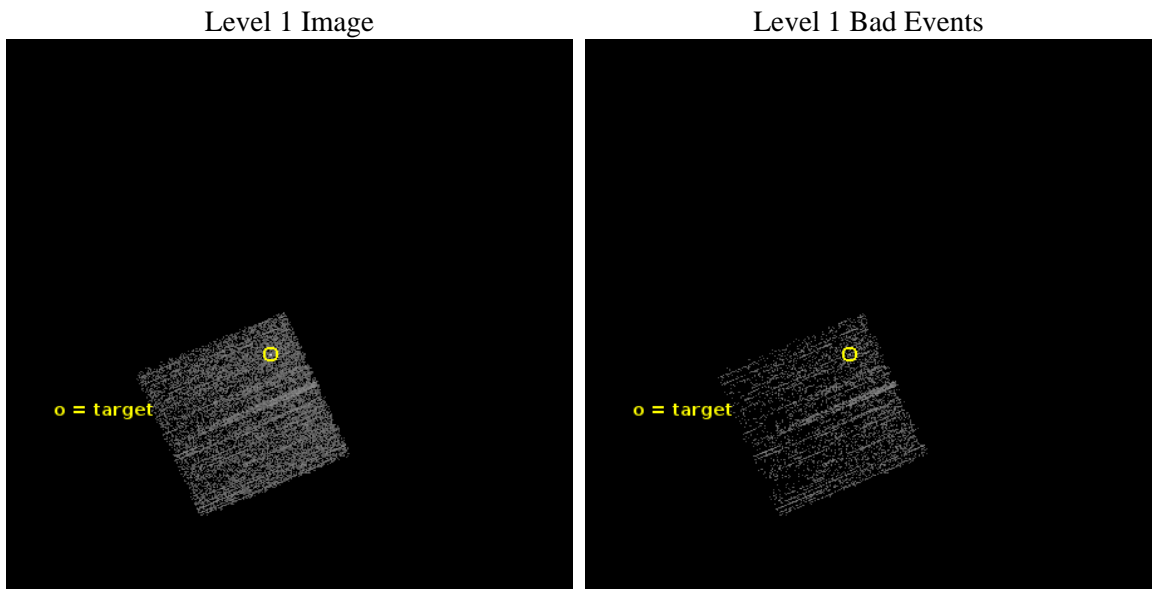
| | | |
|----------|---|---|
| seq_num | 801466 | Sequence number |
| obs_id | 17183 | Observation id |
| title | UNMASKING GALAXY CLUSTERS MASQUERADING AS QUASARS | Proposal title |
| observer | Megan Donahue | Principal investigator |
| object | RXCJ091651.8+523829 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 139.21625 | Observer's specified target RA [deg] |
| dec_targ | 52.641222 | Observer's specified target Dec [deg] |
| ra_nom | 139.18961406514 | Nominal RA [deg] |
| dec_nom | 52.669253422673 | Nominal Dec [deg] |
| roll_nom | 156.52241747477 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 4116.0 | Sum of GTIs [s] |
| livetime | 4060.4530029201 | Livetime [s] |
| ontime3 | 4116.0 | Sum of GTIs [s] |
| l2events | 3005 | Number of level 2 events |



2 OBI

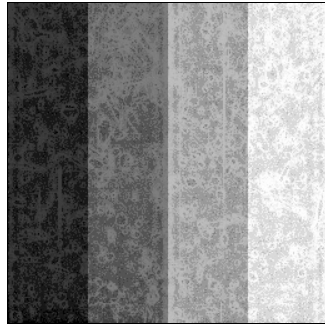
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 4000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.4.3 | Processing system revision | ontime | 4116.0 | Sum of GTIs [s] |
| caldsver | 4.7.0 | | ontime3 | 4116.0 | Sum of GTIs [s] |
| date | 2016-01-24T12:31:43 | Date and time of file creation | l1events | 22622 | Number of level 1 events |
| revision | 1 | Processing version of data | | | |

2.1.4 Events

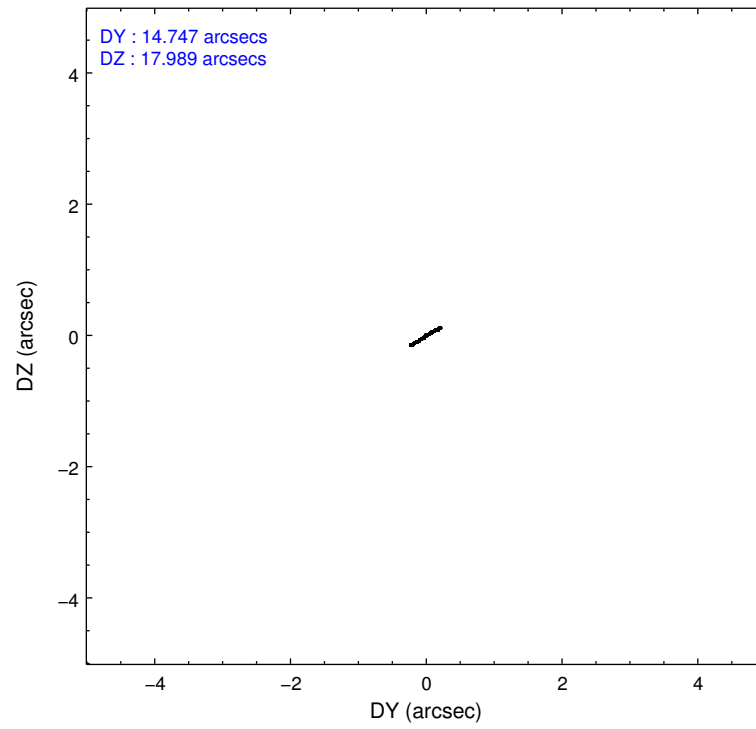
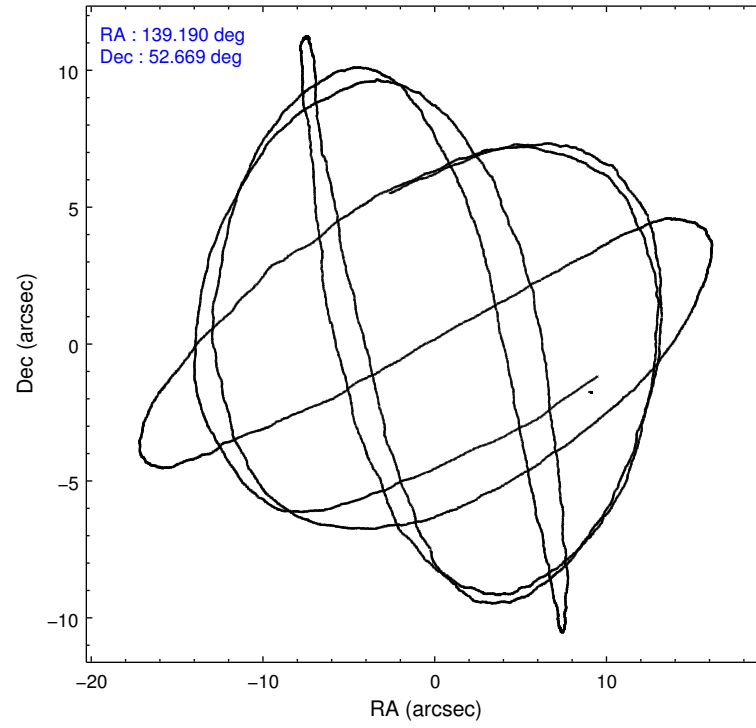
| | |
|-----------------|--------------|
| | ccd 3 |
| level 1 events | 22622 |
| rejected events | 19418 |
| rejected % | 85% |

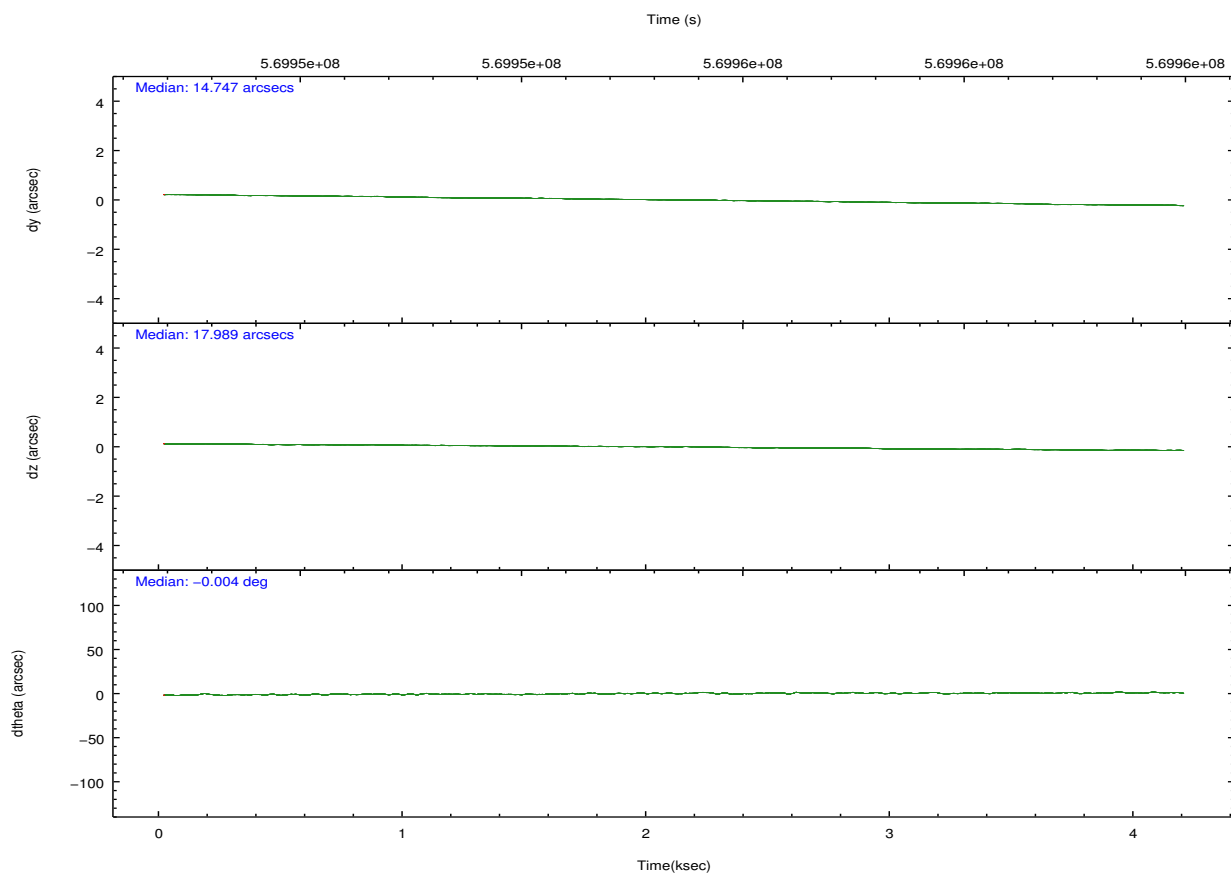
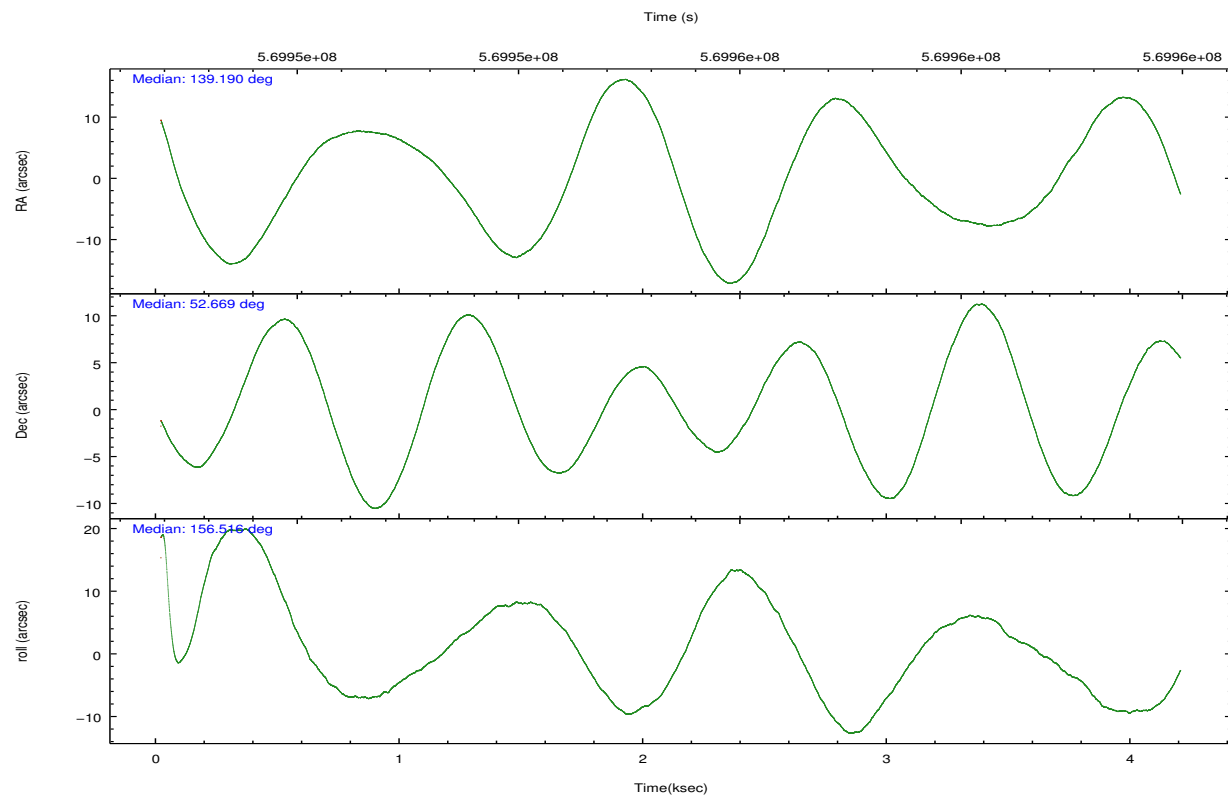
| | |
|----------------|--------------|
| | ccd 3 |
| grade 0 events | 1451 |
| | 6% |
| grade 1 events | 39 |
| | 0% |
| grade 2 events | 667 |
| | 2% |
| grade 3 events | 281 |
| | 1% |
| grade 4 events | 284 |
| | 1% |
| grade 5 events | 1001 |
| | 4% |
| grade 6 events | 521 |
| | 2% |
| grade 7 events | 18378 |
| | 81% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-3 | ACIS-3 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 139.234808 | 139.1896140651427 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 52.672513 | 52.66925342267275 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 156.277685 | 156.5224174747661 | [s] Primary exposure time | 0.000000 | 3 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 569952785.184000 | 569951325.05101 | | | |
| Observation start date | 2016-01-23T16:11:57 | 2016-01-23T15:48:45 | | | |
| [s] Observation end time (MET) | 569956785.184000 | 569957216.75134 | | | |
| Observation end date | 2016-01-23T17:18:37 | 2016-01-23T17:26:56 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



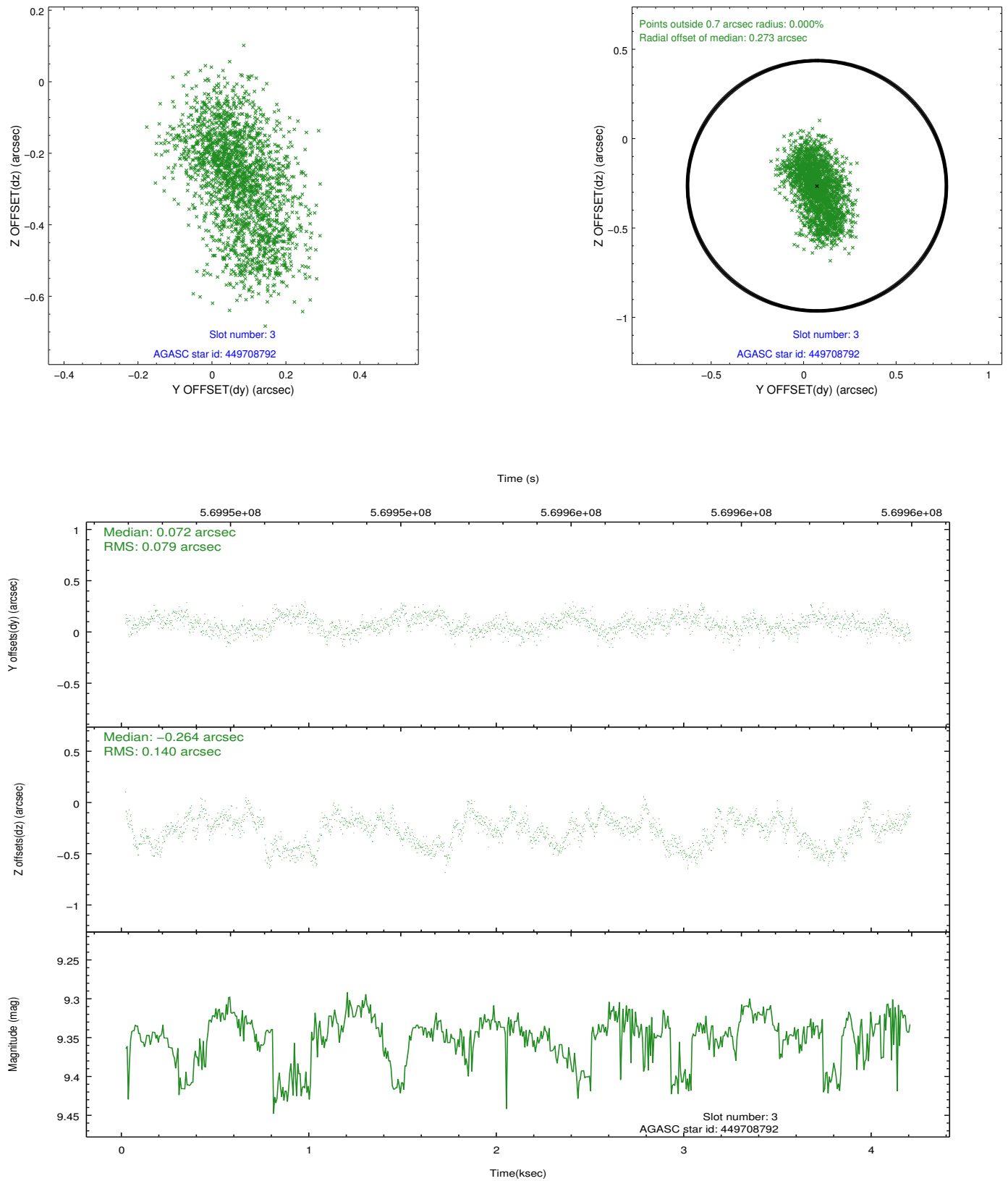


Slot Statistics

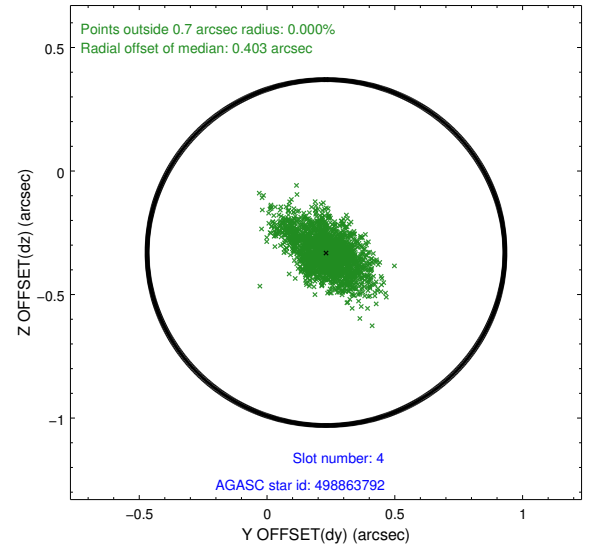
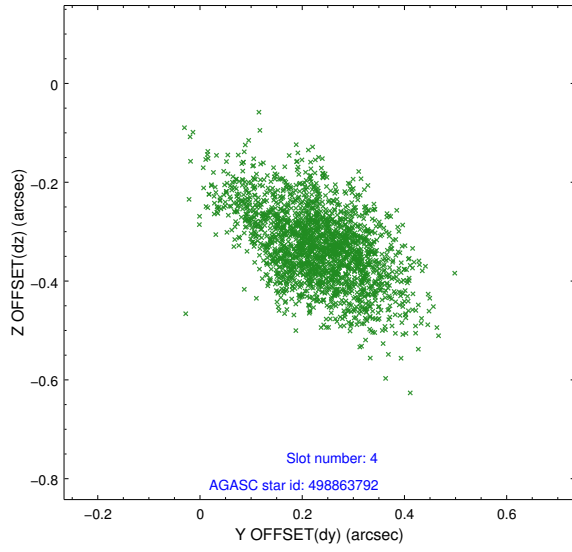
| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | | ACIS-I-1 | 7.27 | 1022 | 0.079 | -0.032 | 0.015 | 0.023 | 0.000000 | 0.000000 | 924.82 | -841.66 |
| 1 | FID | | ACIS-I-5 | 7.29 | 1022 | -0.336 | 0.048 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1822.94 | 1055.08 |
| 2 | FID | | ACIS-I-6 | 7.28 | 1022 | 0.167 | 0.051 | 0.011 | 0.016 | 0.000000 | 0.000000 | 388.76 | 1701.33 |
| 3 | GUIDE | used | 449708792 | 9.35 | 2043 | 0.072 | -0.264 | 0.175 | 0.279 | 139.724660 | 52.475322 | -1267.09 | 214.86 |
| 4 | GUIDE | used | 498863792 | 8.28 | 2043 | 0.231 | -0.330 | 0.120 | 0.208 | 138.773096 | 53.489467 | 2090.03 | -2295.15 |
| 5 | GUIDE | used | 498865336 | 9.16 | 2043 | 0.048 | -0.439 | 0.113 | 0.176 | 139.050858 | 52.564533 | 213.78 | 516.67 |
| 6 | GUIDE | used | 498868256 | 9.21 | 2042 | -0.603 | 1.060 | 0.123 | 0.209 | 139.144952 | 53.400962 | 1231.64 | -2321.50 |
| 7 | GUIDE | used | 498868696 | 8.88 | 2041 | 0.254 | -0.010 | 0.095 | 0.161 | 139.337086 | 52.680422 | -191.77 | -116.75 |

2.4 Star Slots

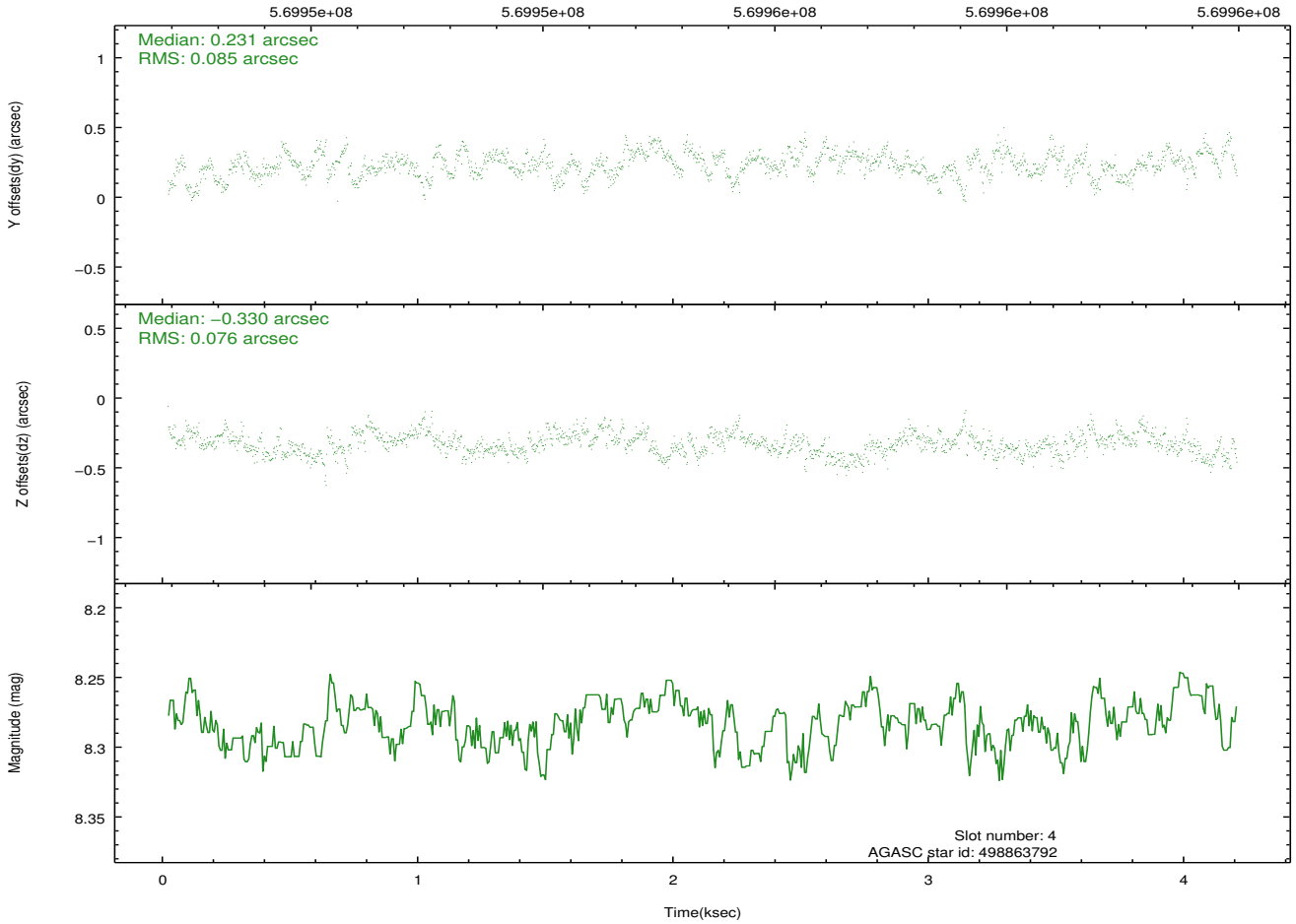
2.4.1 Slot 3



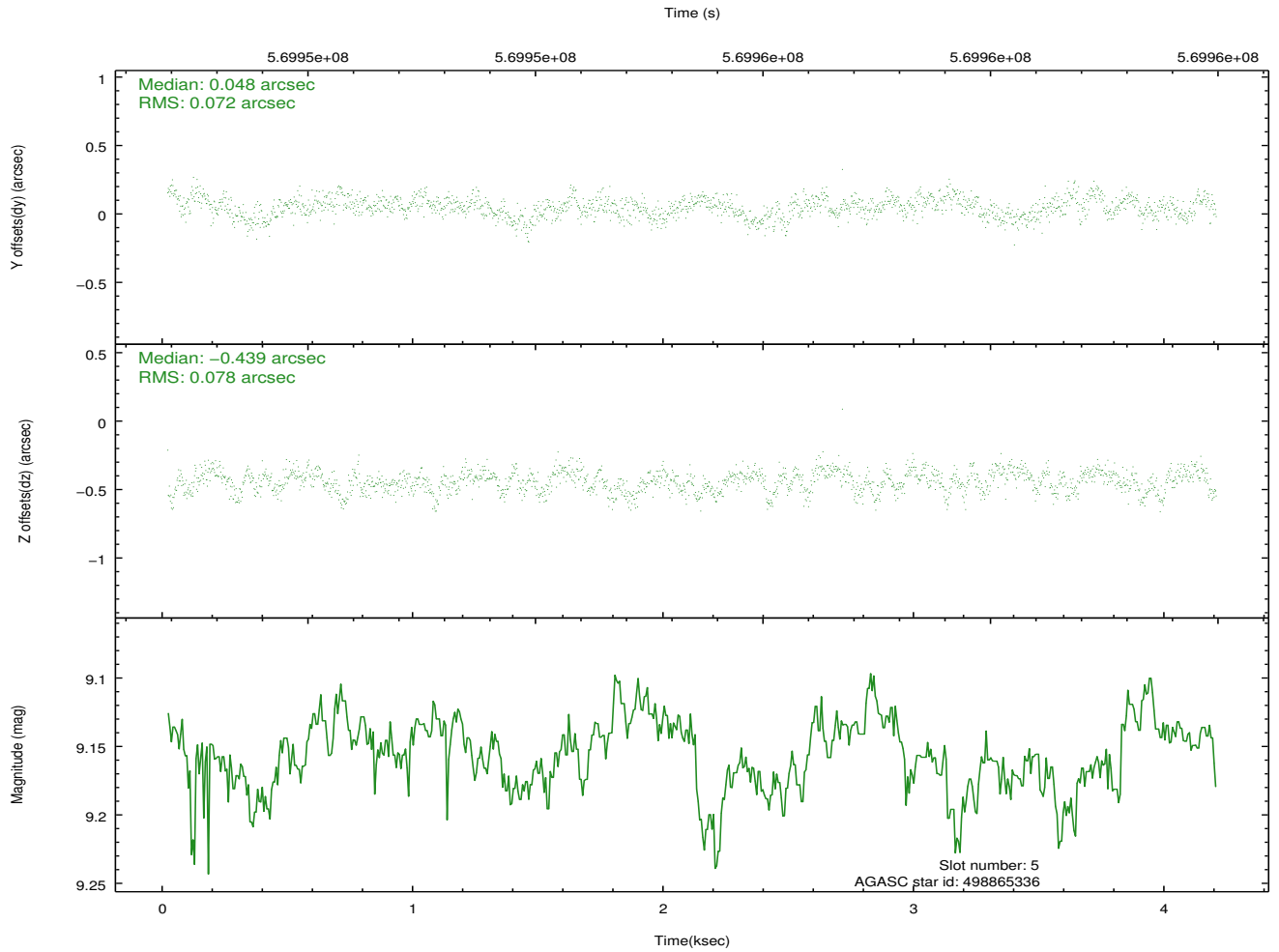
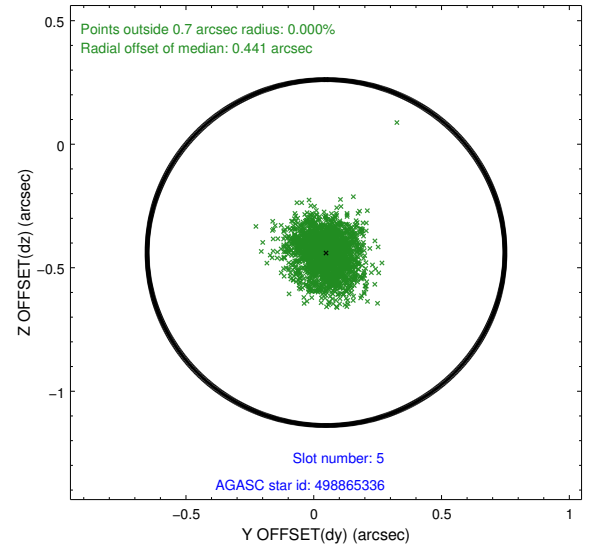
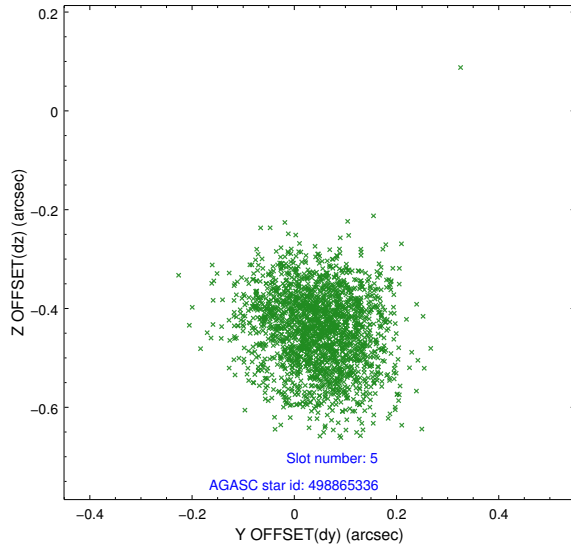
2.4.2 Slot 4



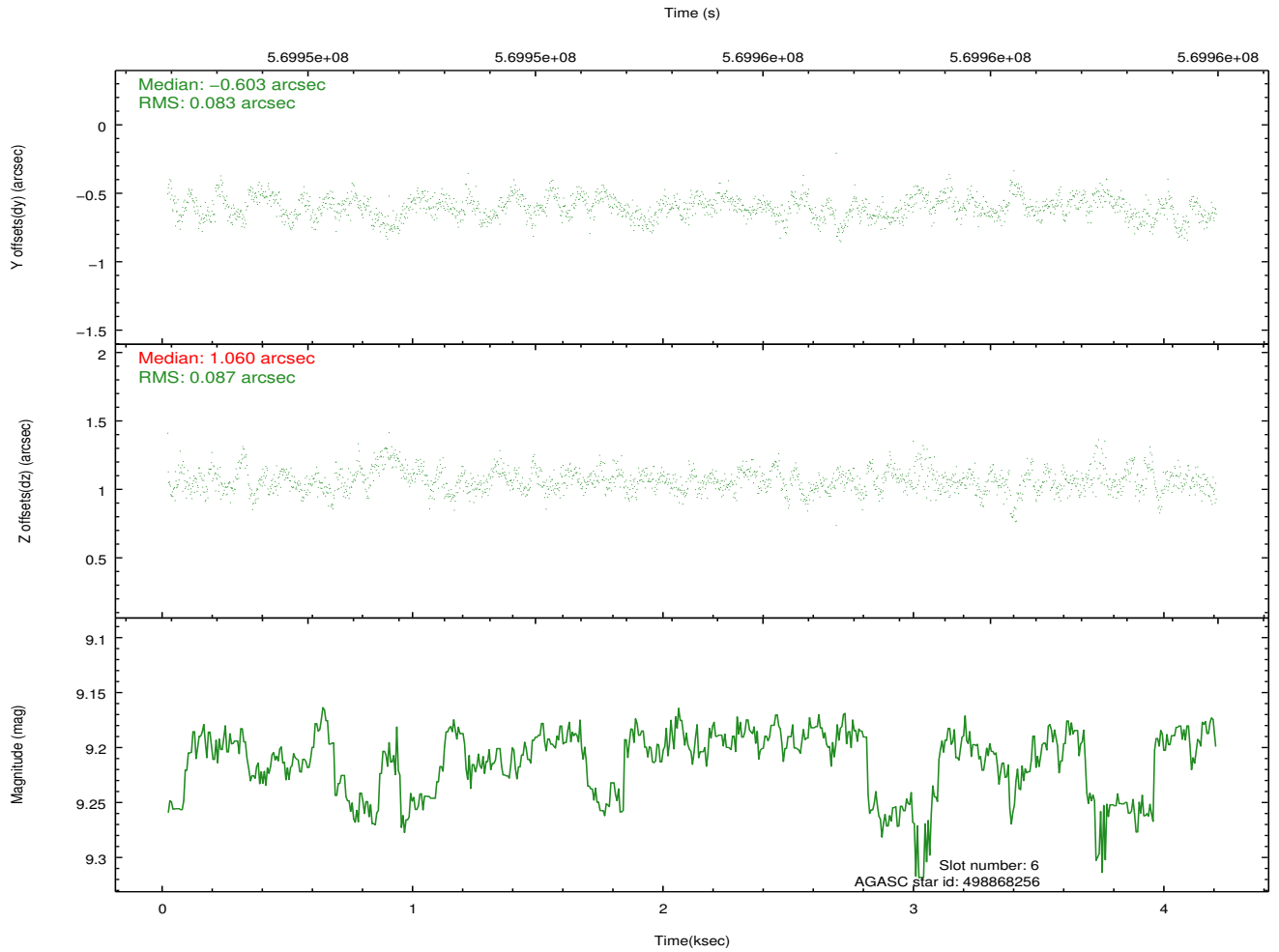
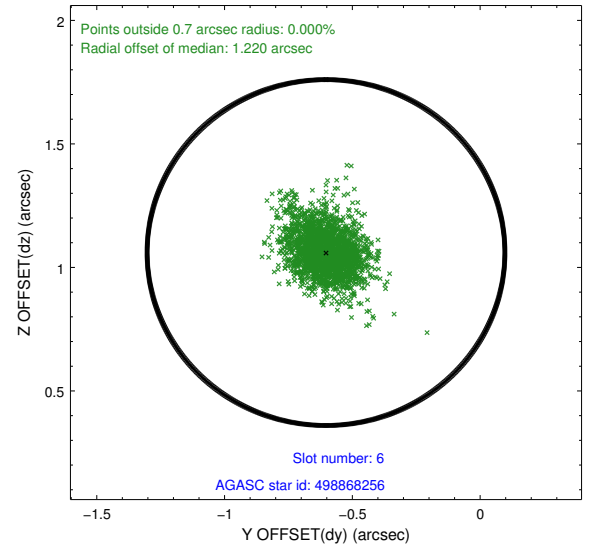
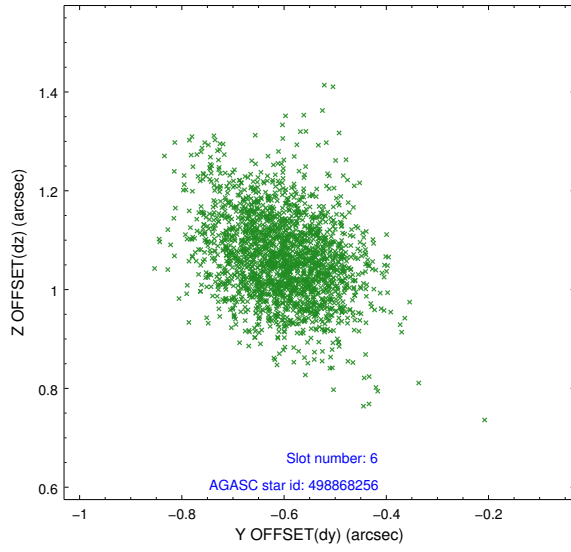
Time (s)



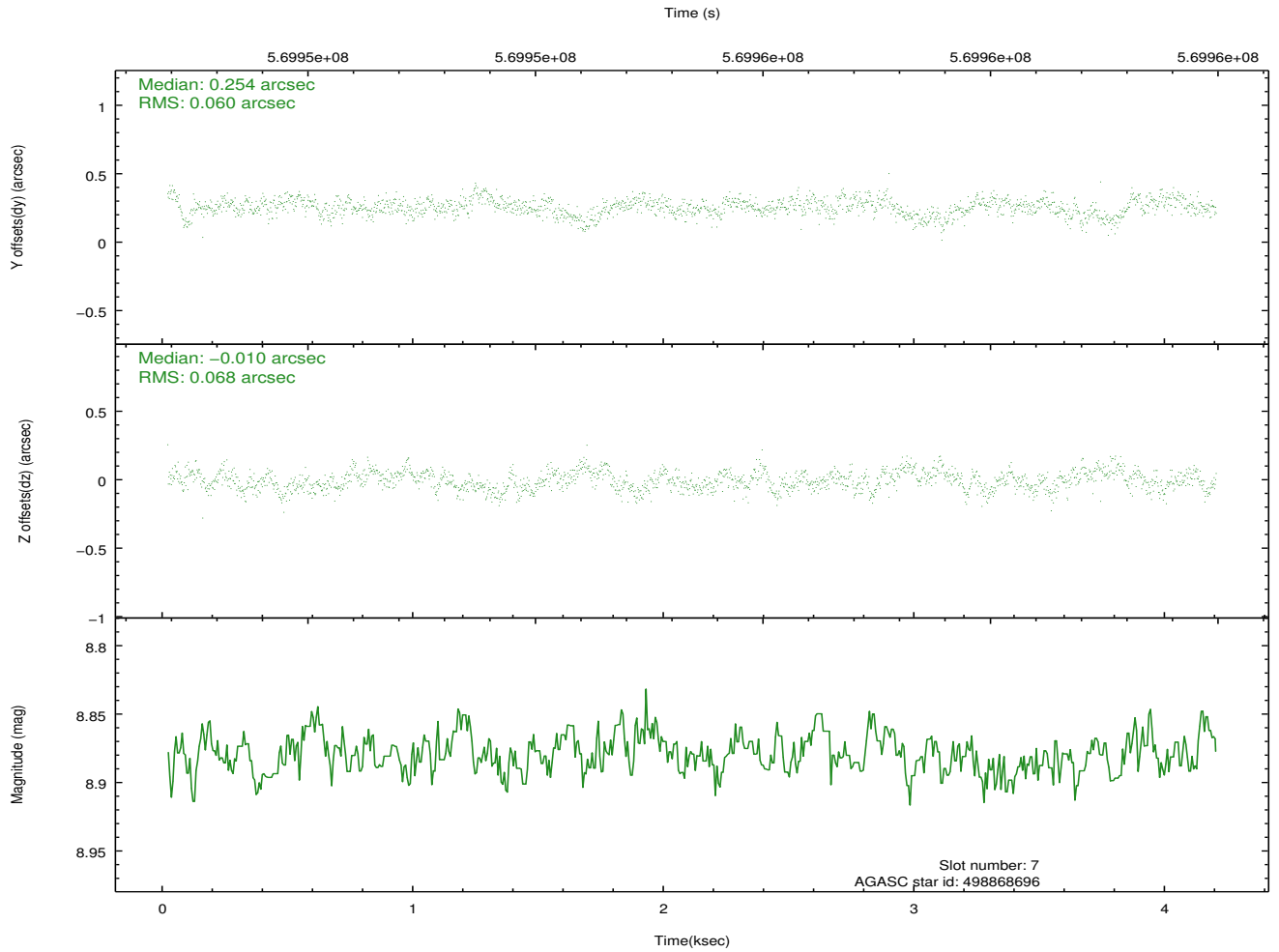
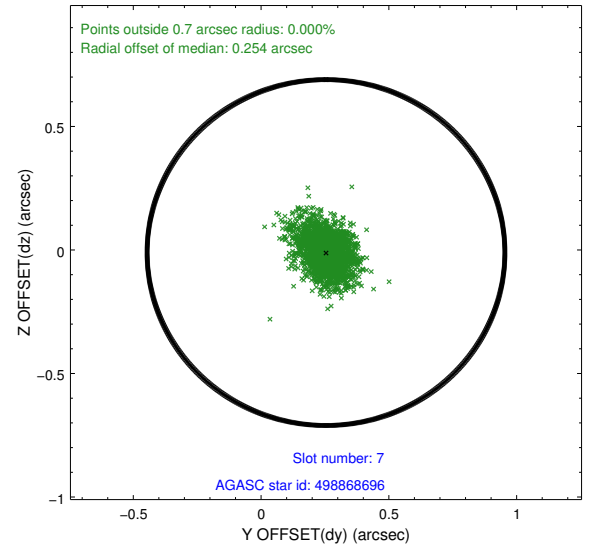
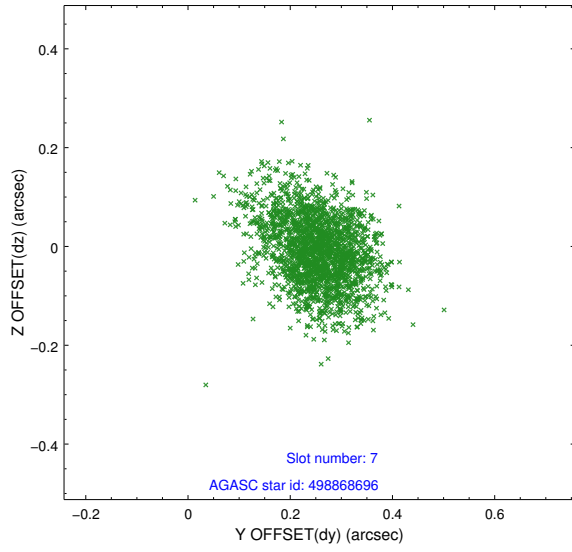
2.4.3 Slot 5



2.4.4 Slot 6

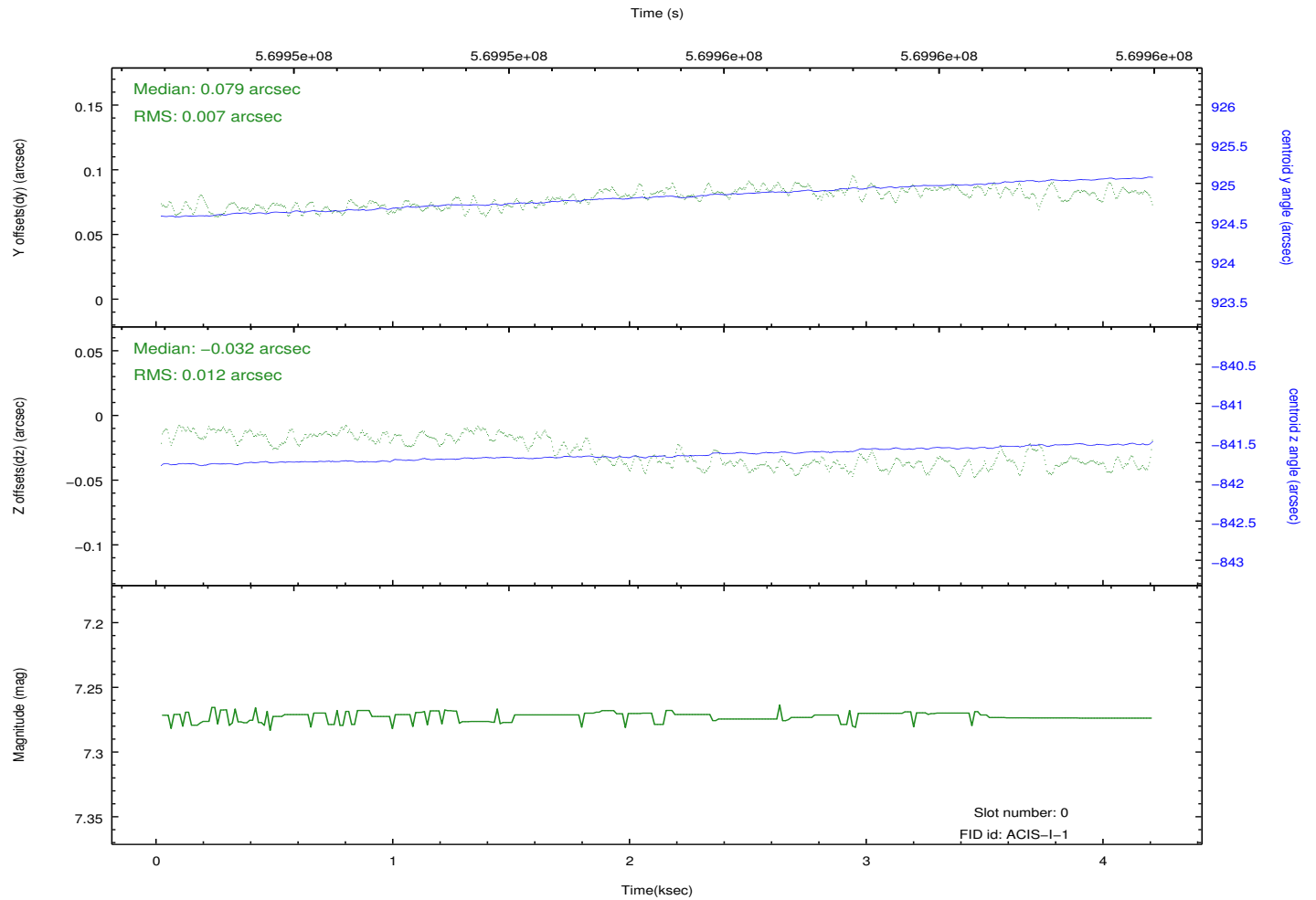
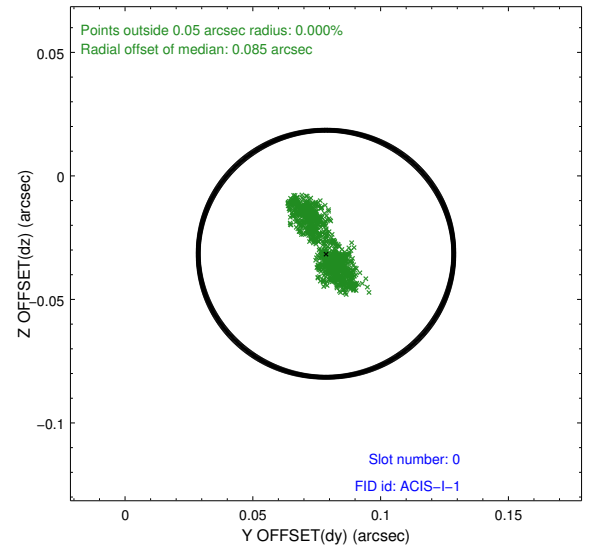
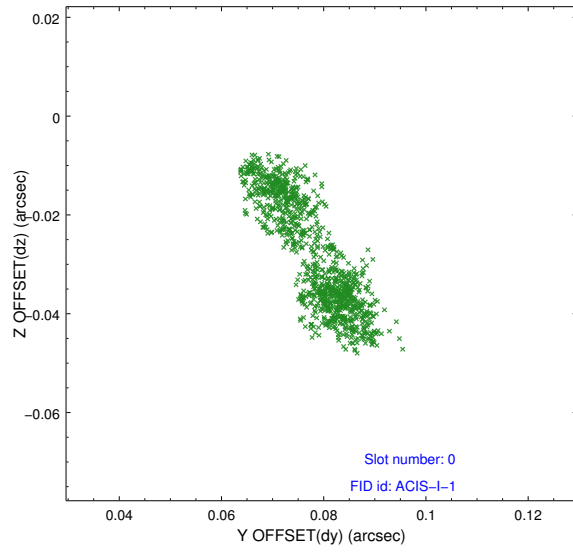


2.4.5 Slot 7

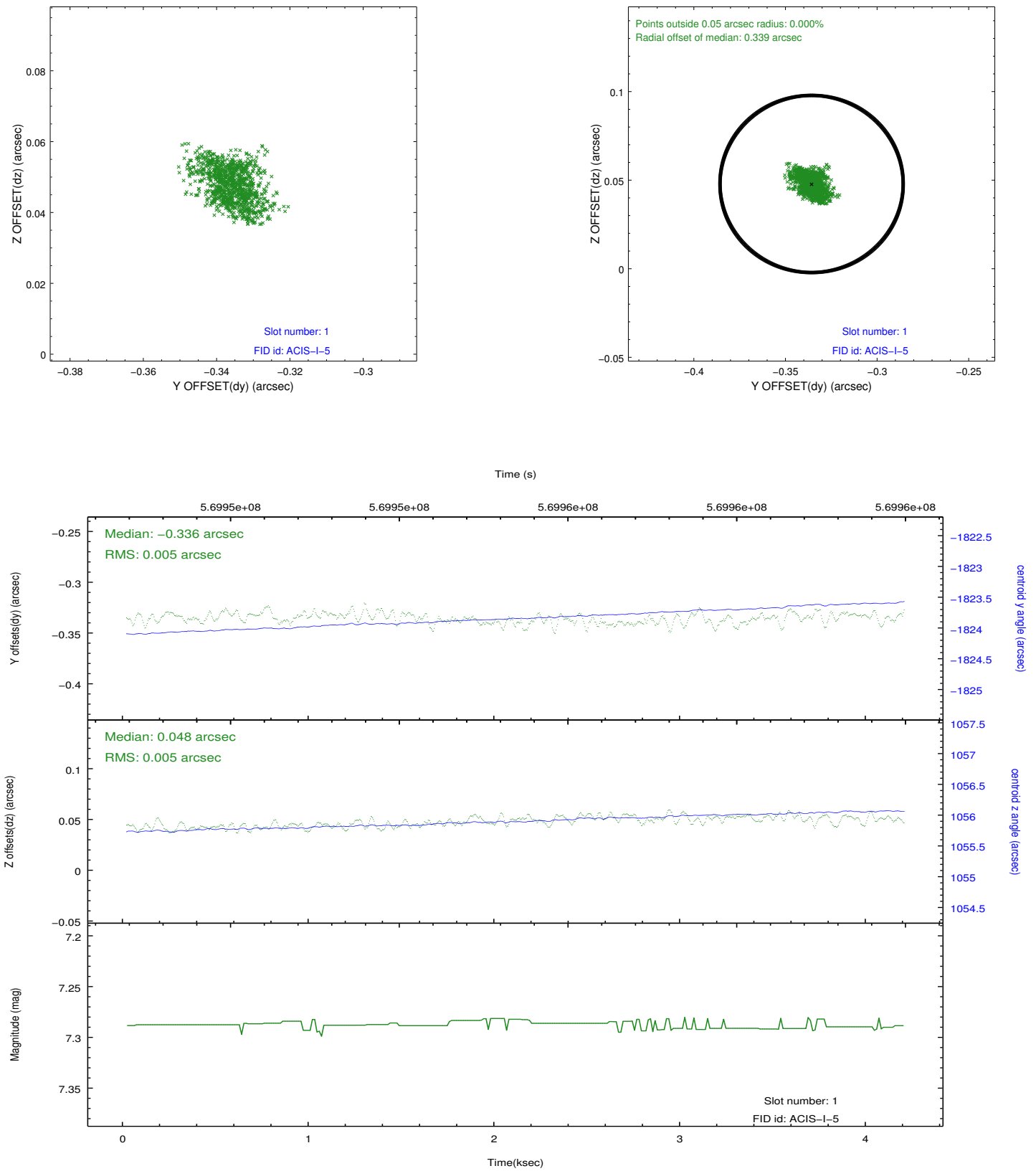


2.5 FID Slots

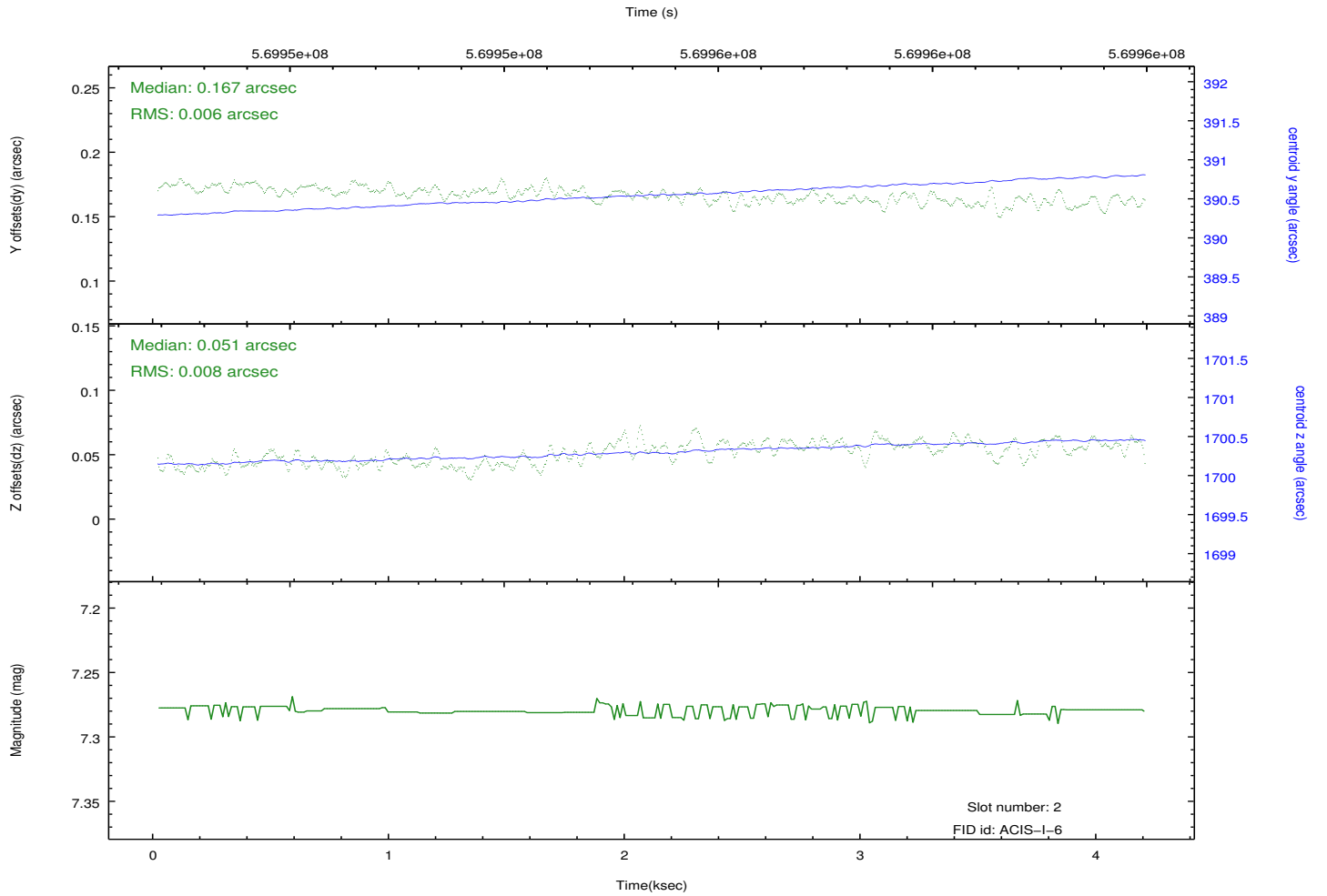
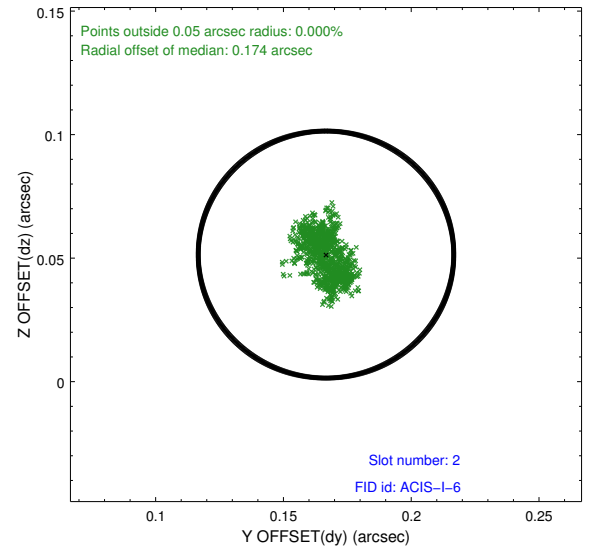
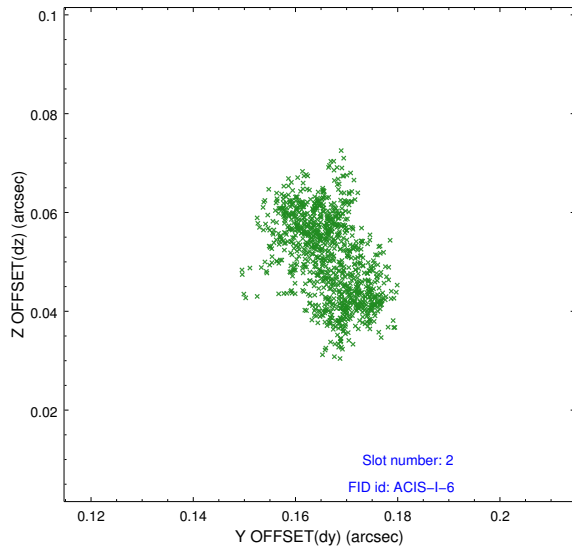
2.5.1 Slot 0



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) | 2016.01.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.116 |

A.2 Comments