

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9141 - L2 Version 2
Chandra X-Ray Center

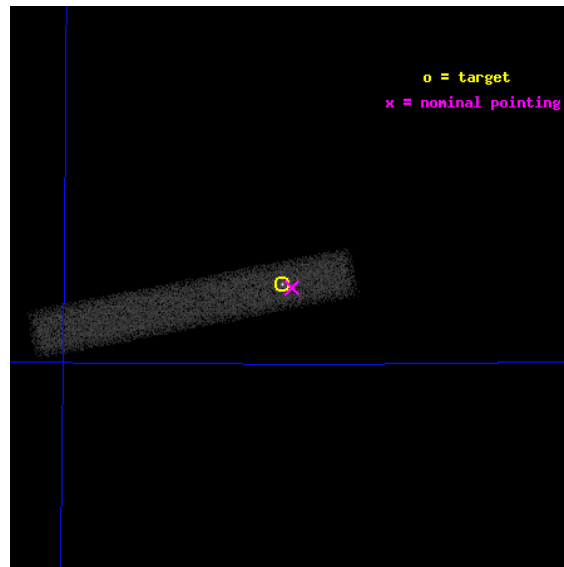
L2 Processing Date : May 12 2012

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1 Front

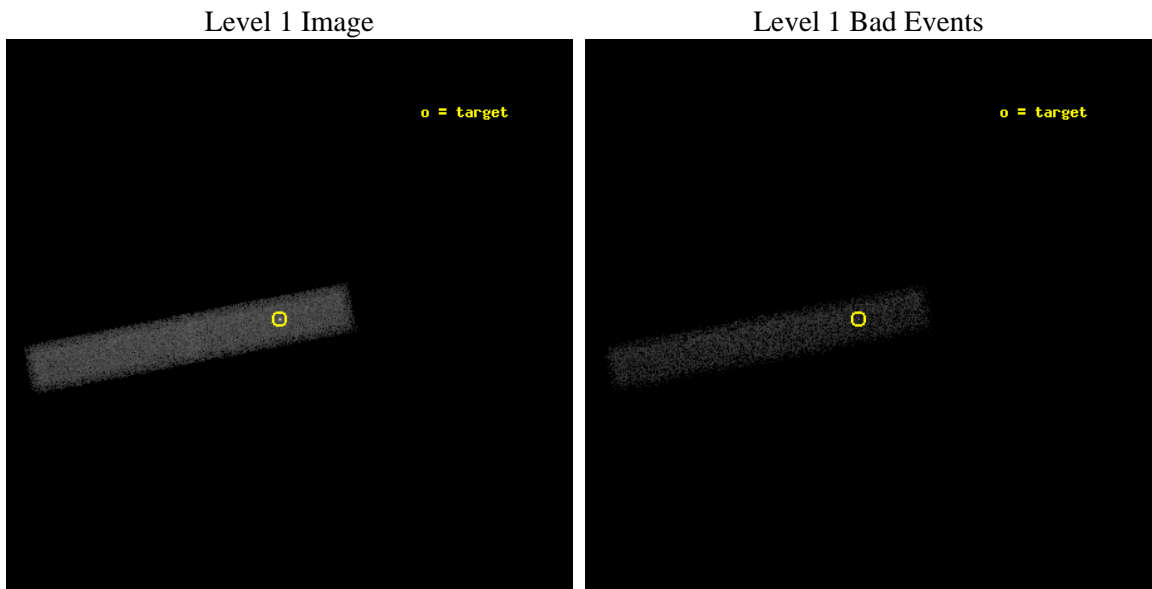
| | | |
|-----------|--|---|
| seq_num | 501002 | Sequence number |
| obs_id | 9141 | Observation id |
| title | Study of a New Class of Isolated Neutron Star -- 1RXS J141256.0+792204 | Proposal title |
| observer | Prof. Derek Fox | Principal investigator |
| object | 1RXS J141256.0+792204 | Source name |
| dtycycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 213.235417 | Observer's specified target RA [deg] |
| dec_targ | 79.367889 | Observer's specified target Dec [deg] |
| ra_nom | 213.21078528832 | Nominal RA [deg] |
| dec_nom | 79.366190335822 | Nominal Dec [deg] |
| roll_nom | 168.98085691234 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 29141.998263001 | Sum of GTIs [s] |
| liveltime | 26430.254183749 | Livetime [s] |
| ontime7 | 29141.998263001 | Sum of GTIs [s] |
| l2events | 27571 | Number of level 2 events |



2 OBI

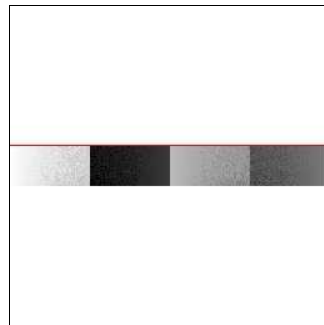
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 29000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 29141.998263001 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime7 | 29141.998263001 | Sum of GTIs [s] |
| date | 2012-05-12T15:05:19 | Date and time of file creation | l1events | 57476 | Number of level 1 events |
| revision | 2 | Processing version of data | | | |

2.1.4 Events

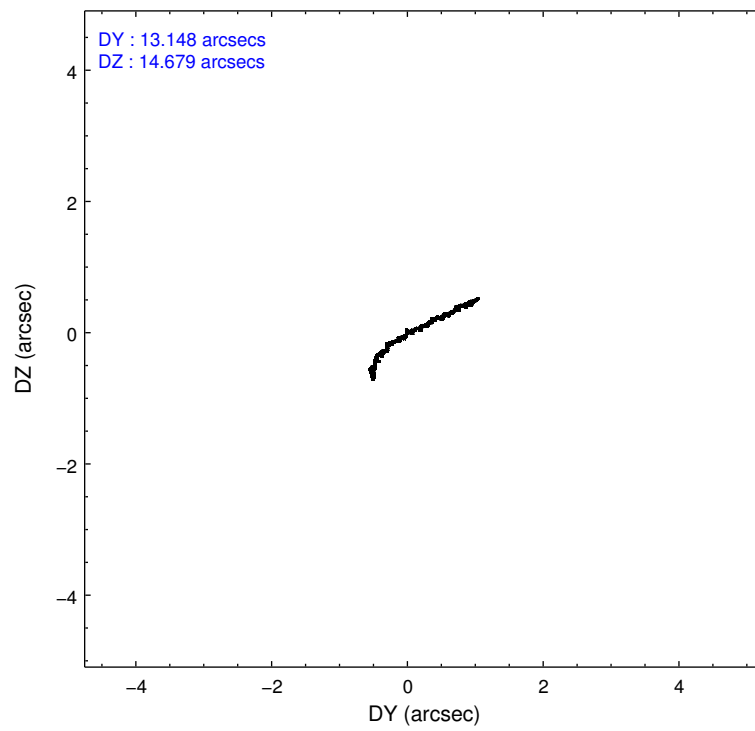
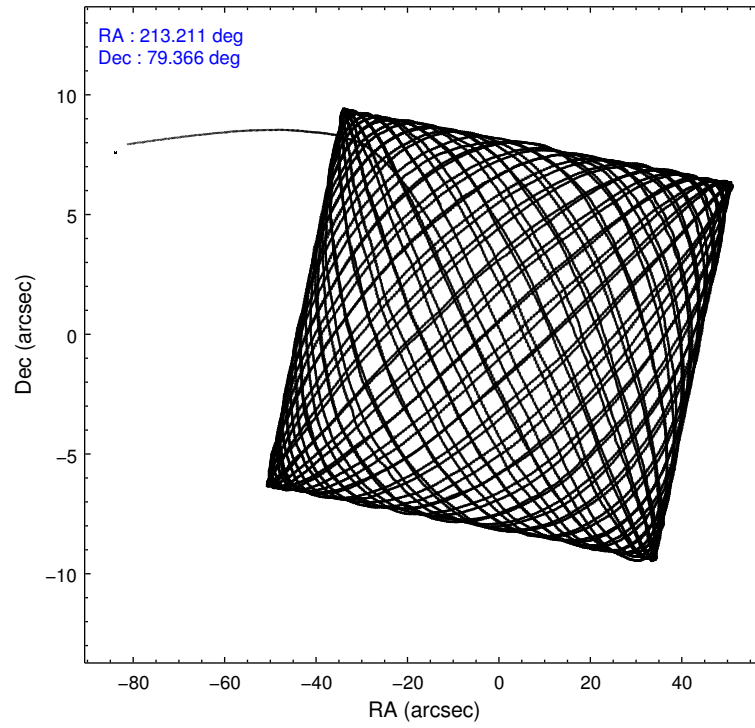
| | ccd 7 |
|-----------------|--------------|
| level 1 events | 57476 |
| rejected events | 29026 |
| rejected % | 50% |

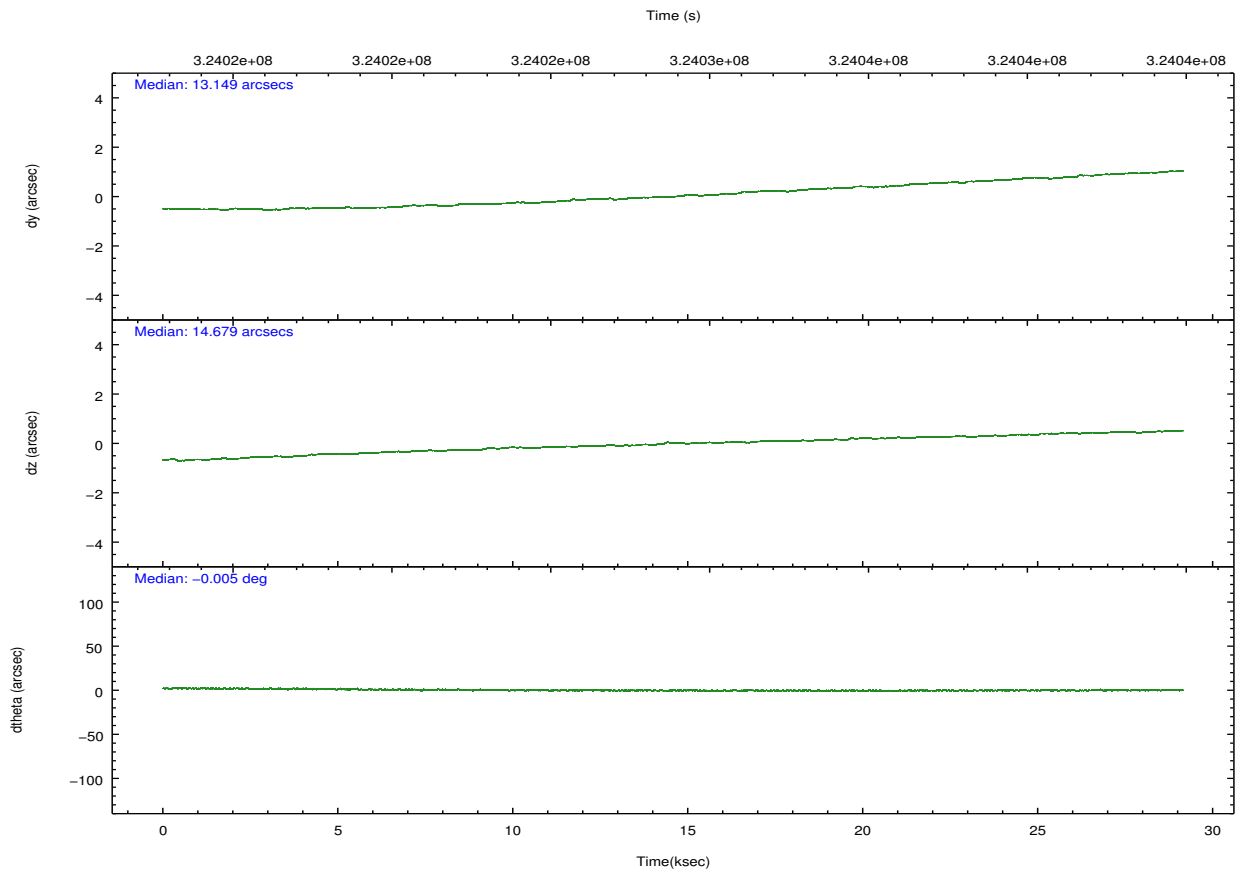
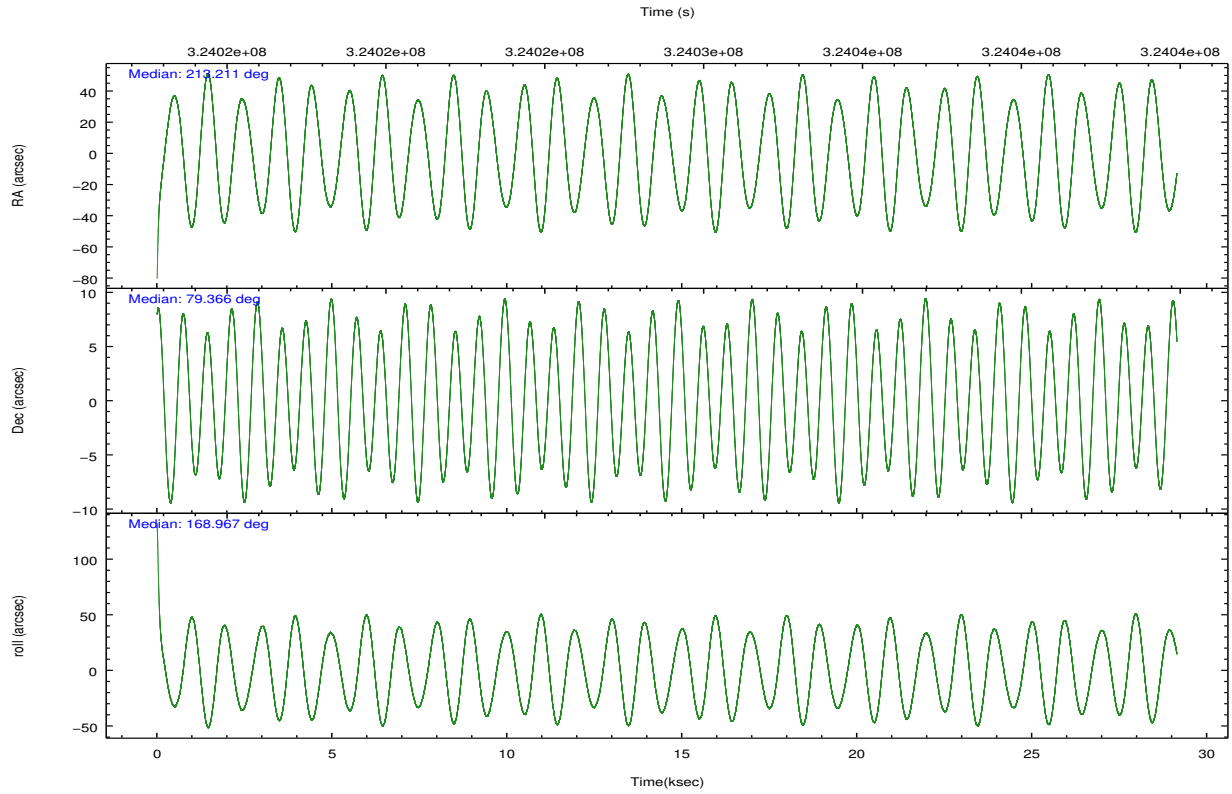
| | ccd 7 |
|----------------|--------------|
| grade 0 events | 4196 |
| | 7% |
| grade 1 events | 80 |
| | 0% |
| grade 2 events | 5945 |
| | 10% |
| grade 3 events | 3572 |
| | 6% |
| grade 4 events | 3564 |
| | 6% |
| grade 5 events | 4892 |
| | 8% |
| grade 6 events | 11951 |
| | 20% |
| grade 7 events | 23276 |
| | 40% |

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 | 213.350406 | 213.2107852883224 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | 79.375363 | 79.36619033582167 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 168.686981 | 168.9808569123448 | Subarray row count | 128 | 128 |
| [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 | 0.4 |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 324014424.184000 | 324013328.67713 | | | |
| Observation start date | 2008-04-08T03:59:19 | 2008-04-08T03:42:08 | | | |
| [s] Observation end time (MET) | 324043424.184000 | 324044004.36613 | | | |
| Observation end date | 2008-04-08T12:02:39 | 2008-04-08T12:13:24 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



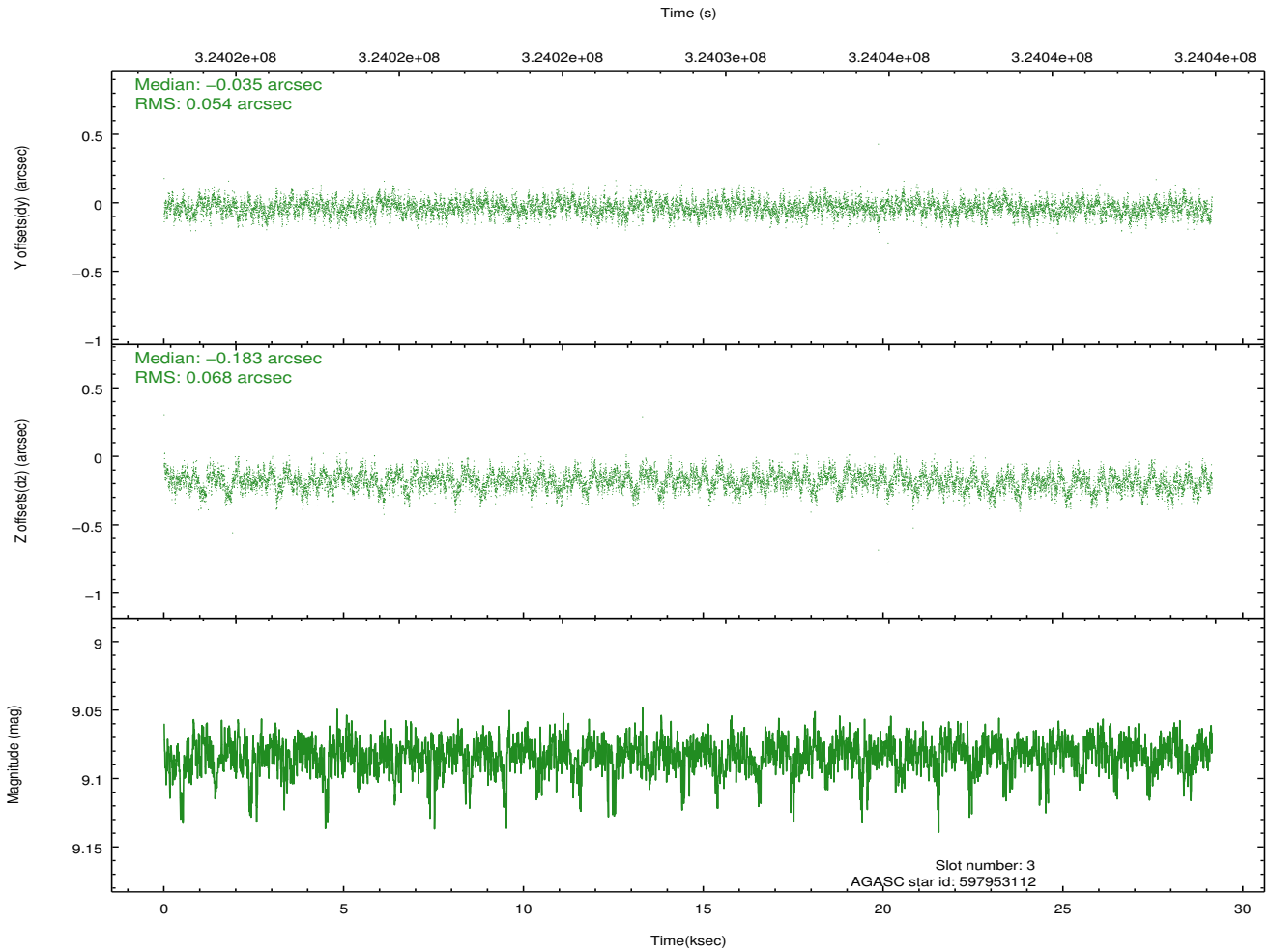
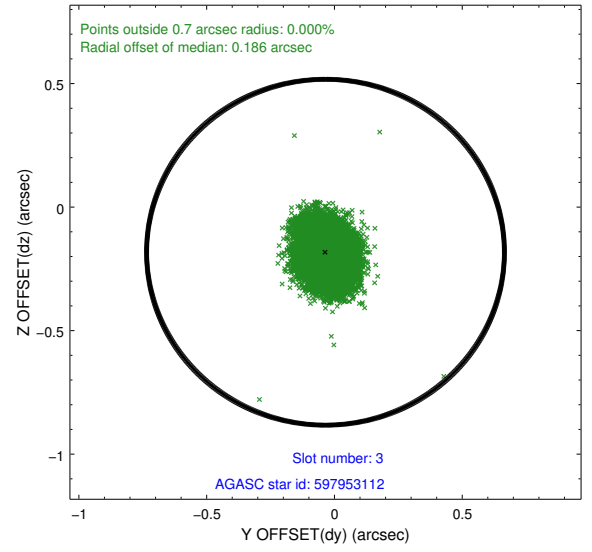
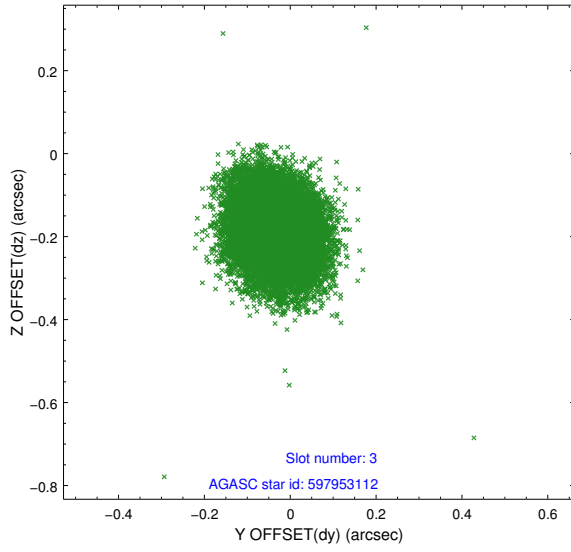


Slot Statistics

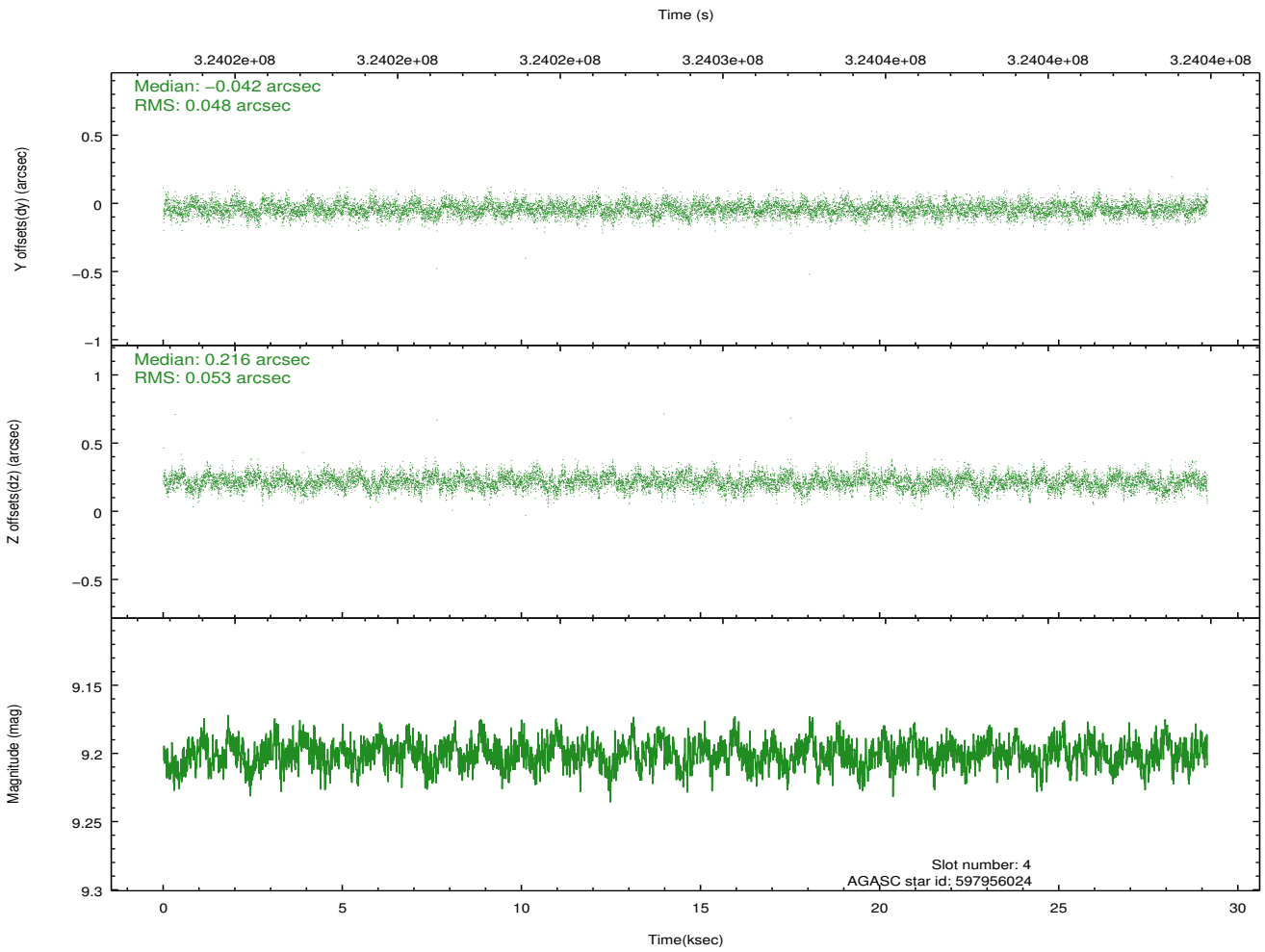
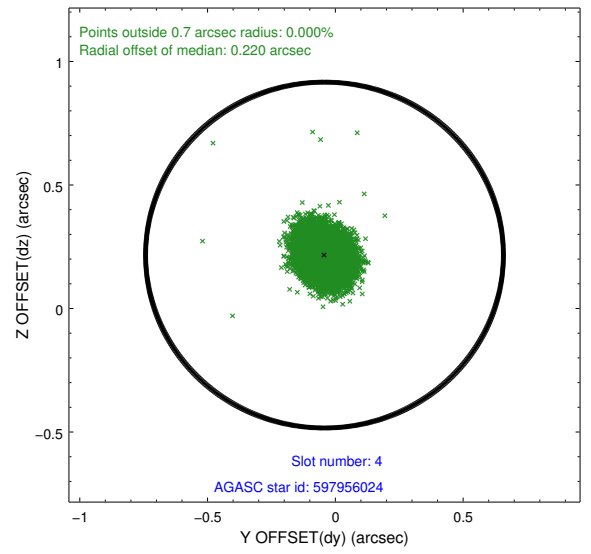
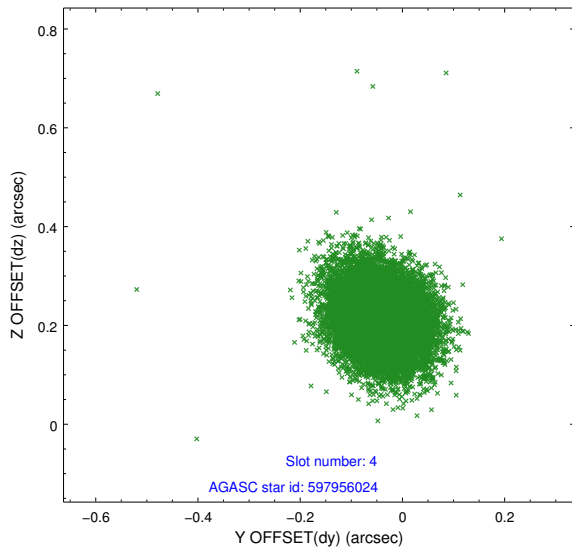
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 6.91 | 7108 | -0.052 | -0.015 | 0.015 | 0.022 | 0.000000 | 0.000000 | -766.18 | -1736.03 |
| 1 | FID | ACIS-S-4 | 6.99 | 7108 | 0.148 | 0.030 | 0.025 | 0.041 | 0.000000 | 0.000000 | 2147.22 | 172.46 |
| 2 | FID | ACIS-S-5 | 7.03 | 7108 | -0.124 | -0.004 | 0.016 | 0.022 | 0.000000 | 0.000000 | -1819.02 | 166.12 |
| 3 | GUIDE | 597953112 | 9.08 | 14214 | -0.035 | -0.183 | 0.093 | 0.149 | 214.009845 | 78.760089 | -887.94 | 2078.88 |
| 4 | GUIDE | 597956024 | 9.20 | 14207 | -0.042 | 0.216 | 0.075 | 0.125 | 215.481244 | 79.329736 | -1419.44 | -142.23 |
| 5 | GUIDE | 597957536 | 9.34 | 14198 | 0.142 | 0.011 | 0.105 | 0.168 | 214.978754 | 79.574657 | -895.92 | -925.64 |
| 6 | GUIDE | 597956800 | 8.98 | 14136 | -0.060 | 0.003 | 0.105 | 0.176 | 213.871920 | 79.999122 | 121.44 | -2266.43 |
| 7 | GUIDE | 597956640 | 9.79 | 14202 | -0.005 | -0.039 | 0.132 | 0.226 | 217.299324 | 79.616316 | -2323.08 | -1437.92 |

2.4 Star Slots

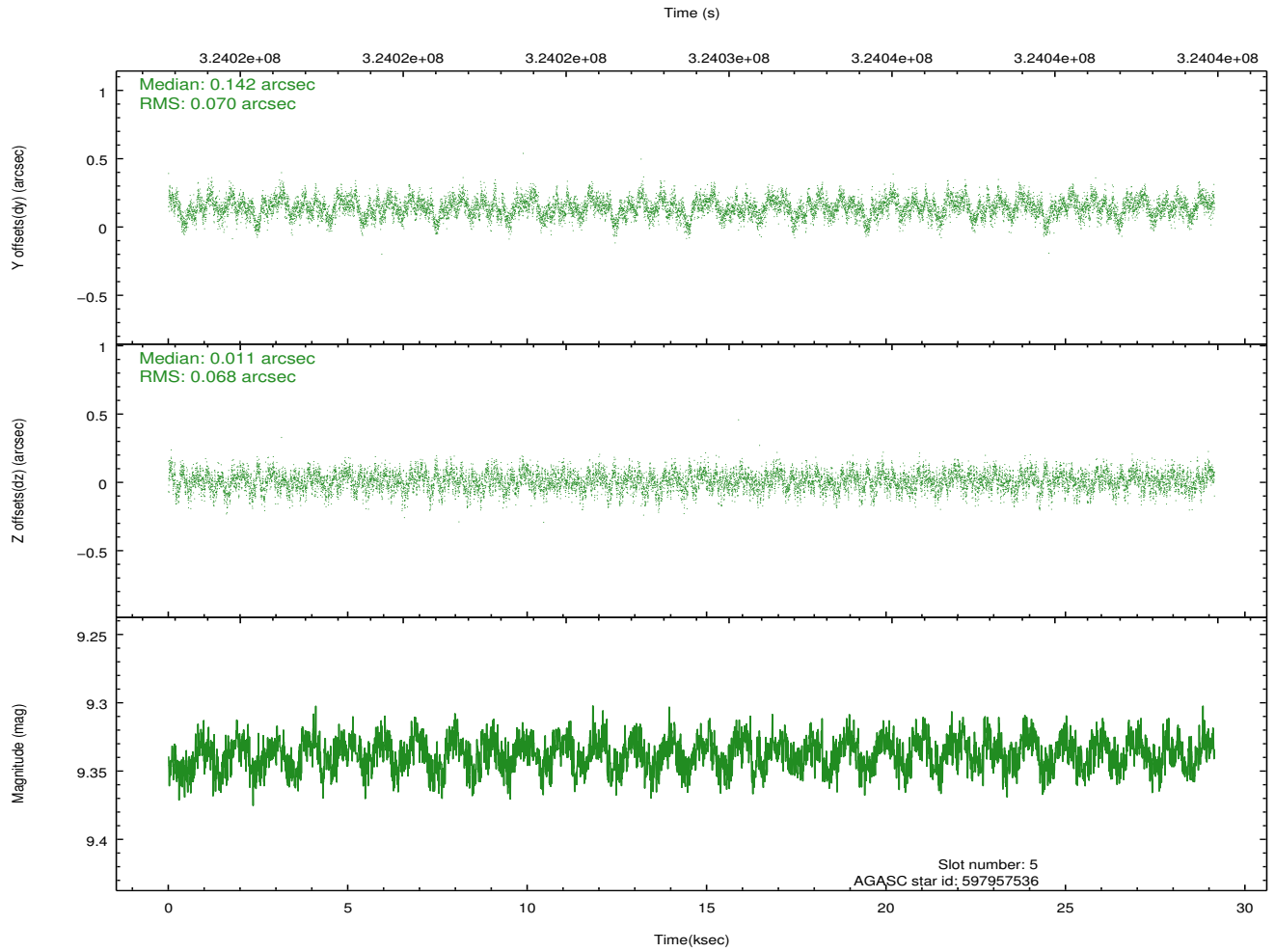
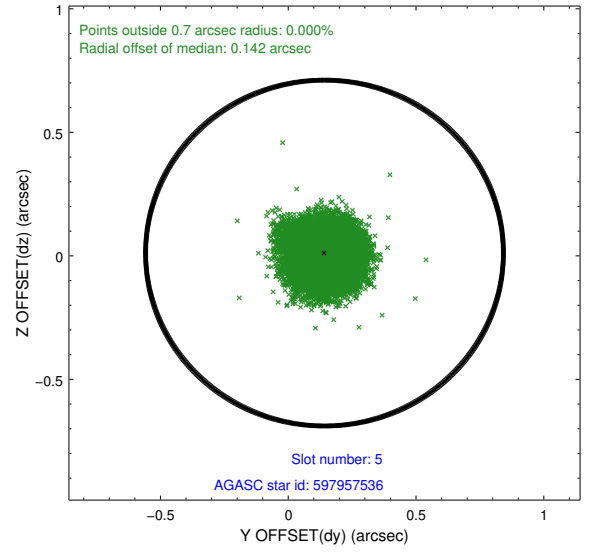
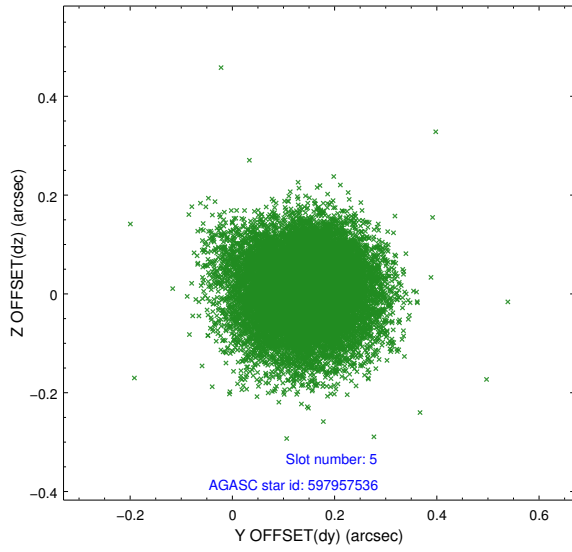
2.4.1 Slot 3



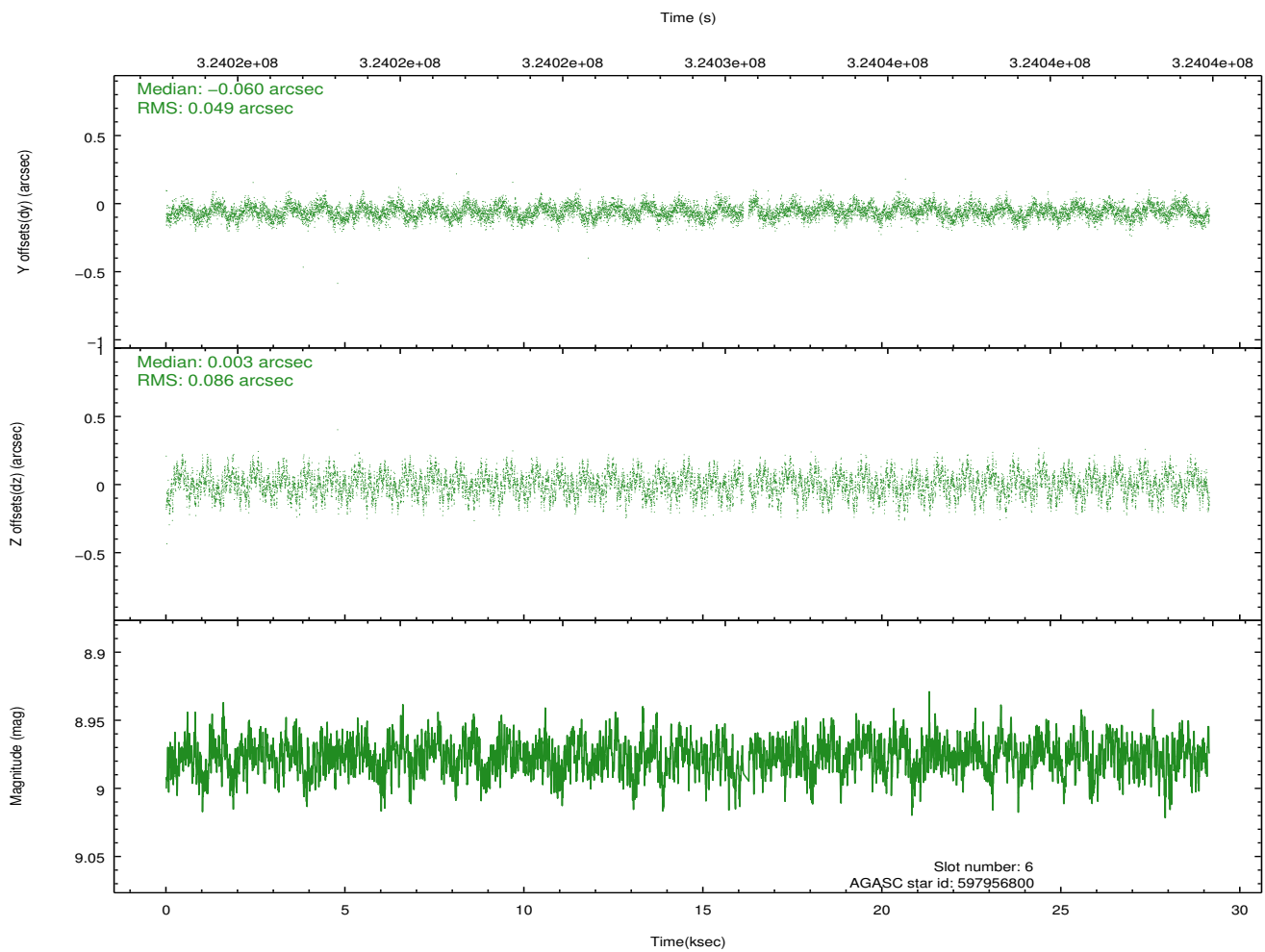
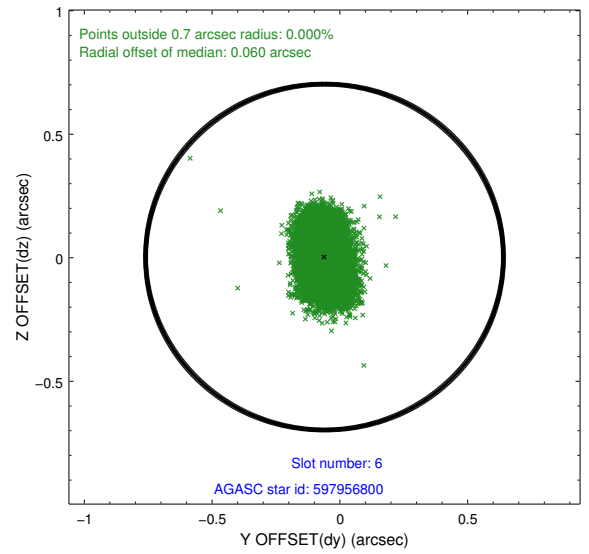
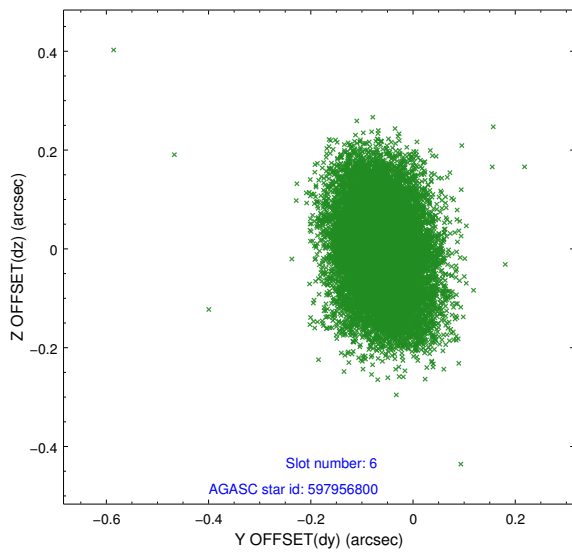
2.4.2 Slot 4



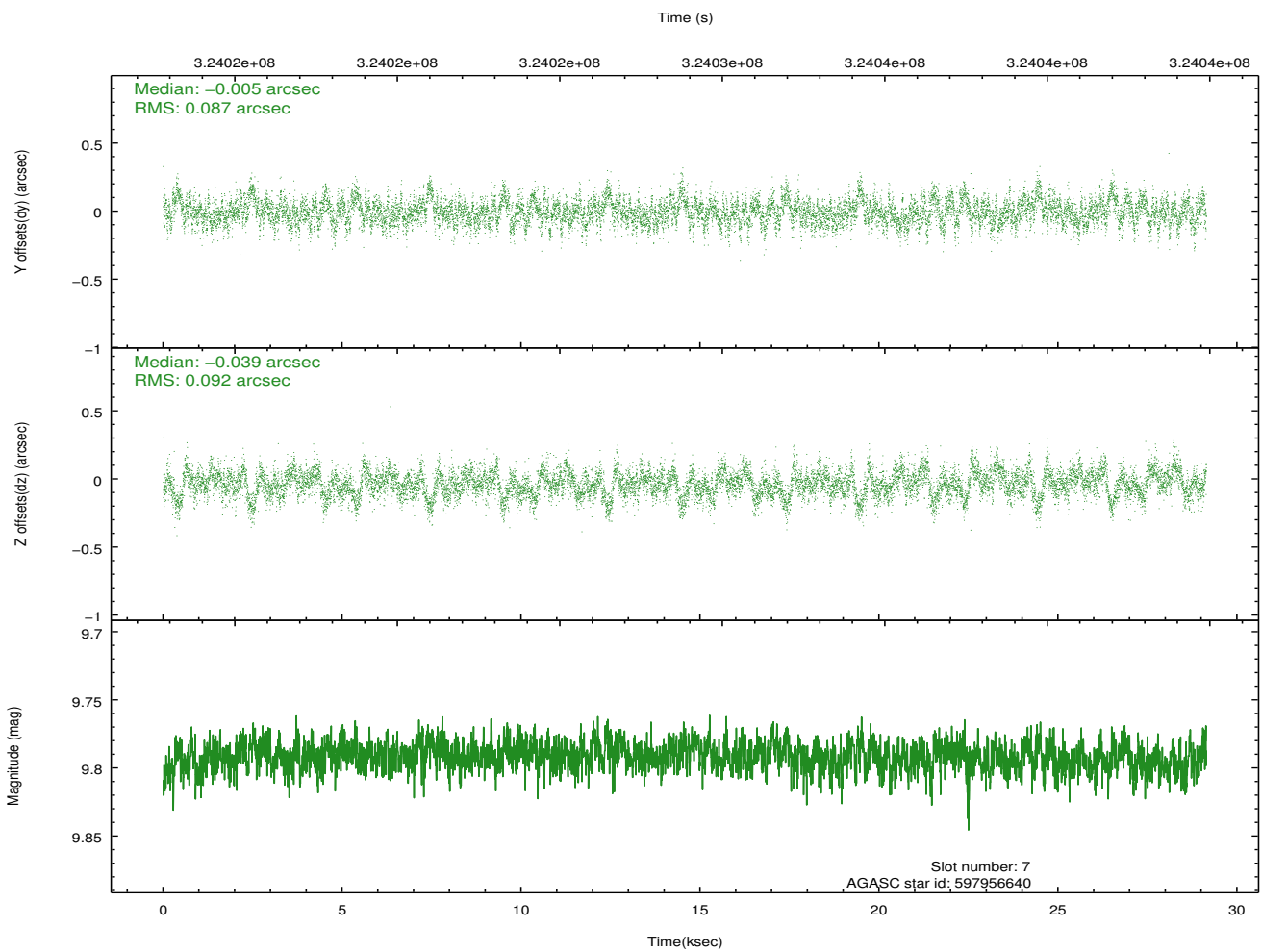
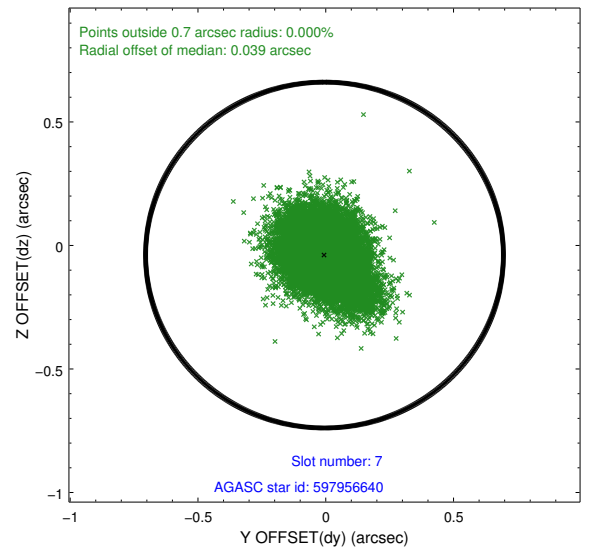
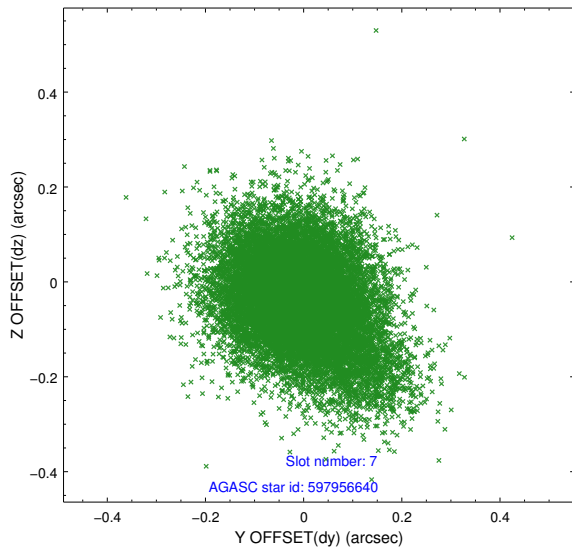
2.4.3 Slot 5



2.4.4 Slot 6

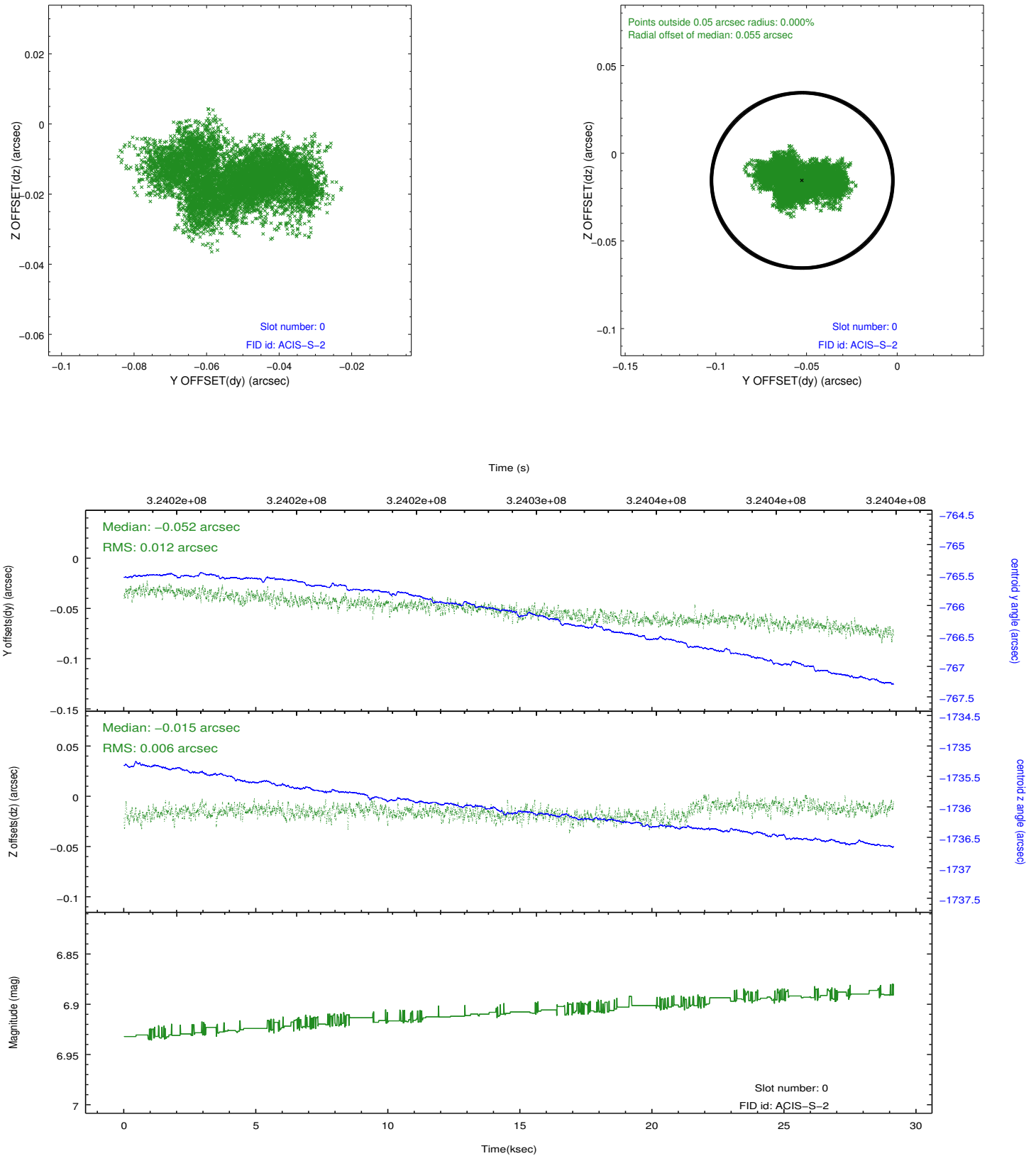


2.4.5 Slot 7

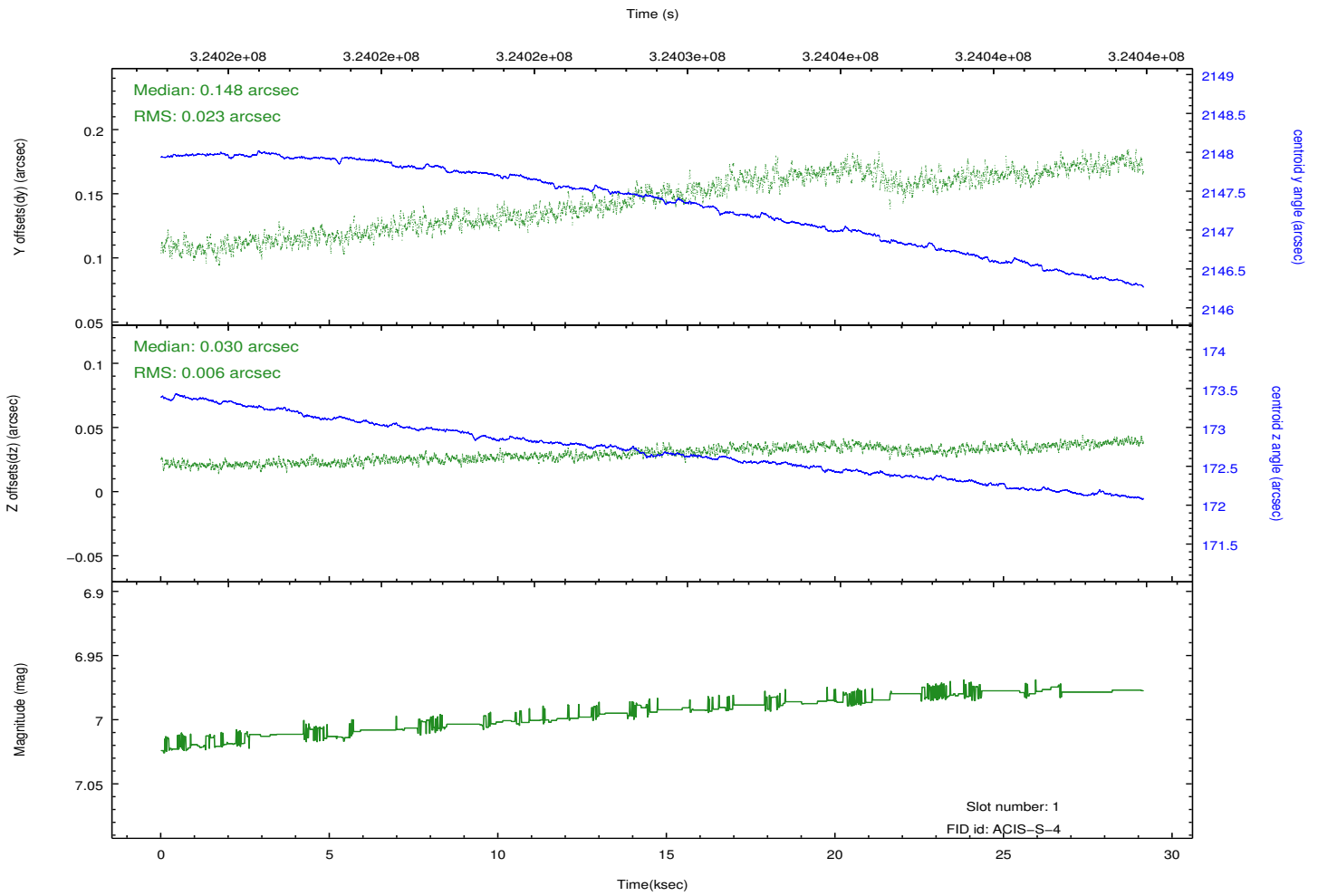
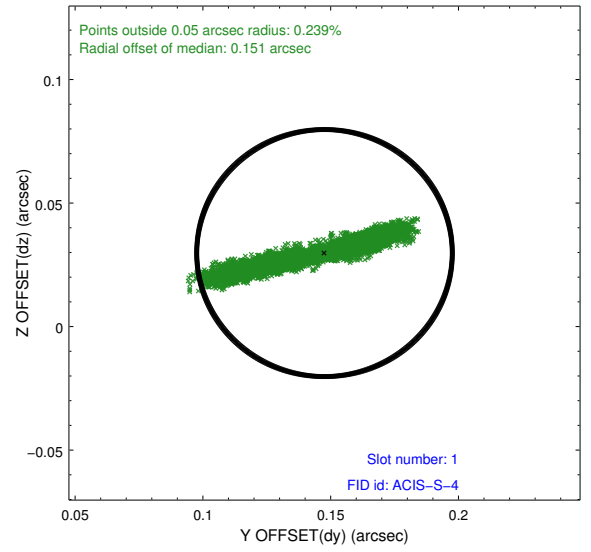
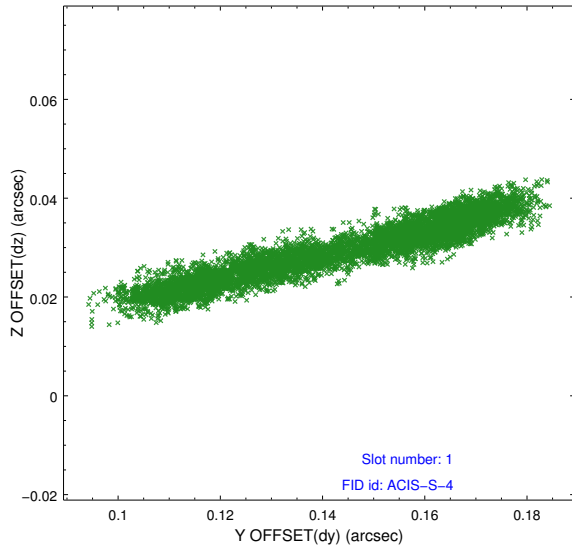


2.5 FID Slots

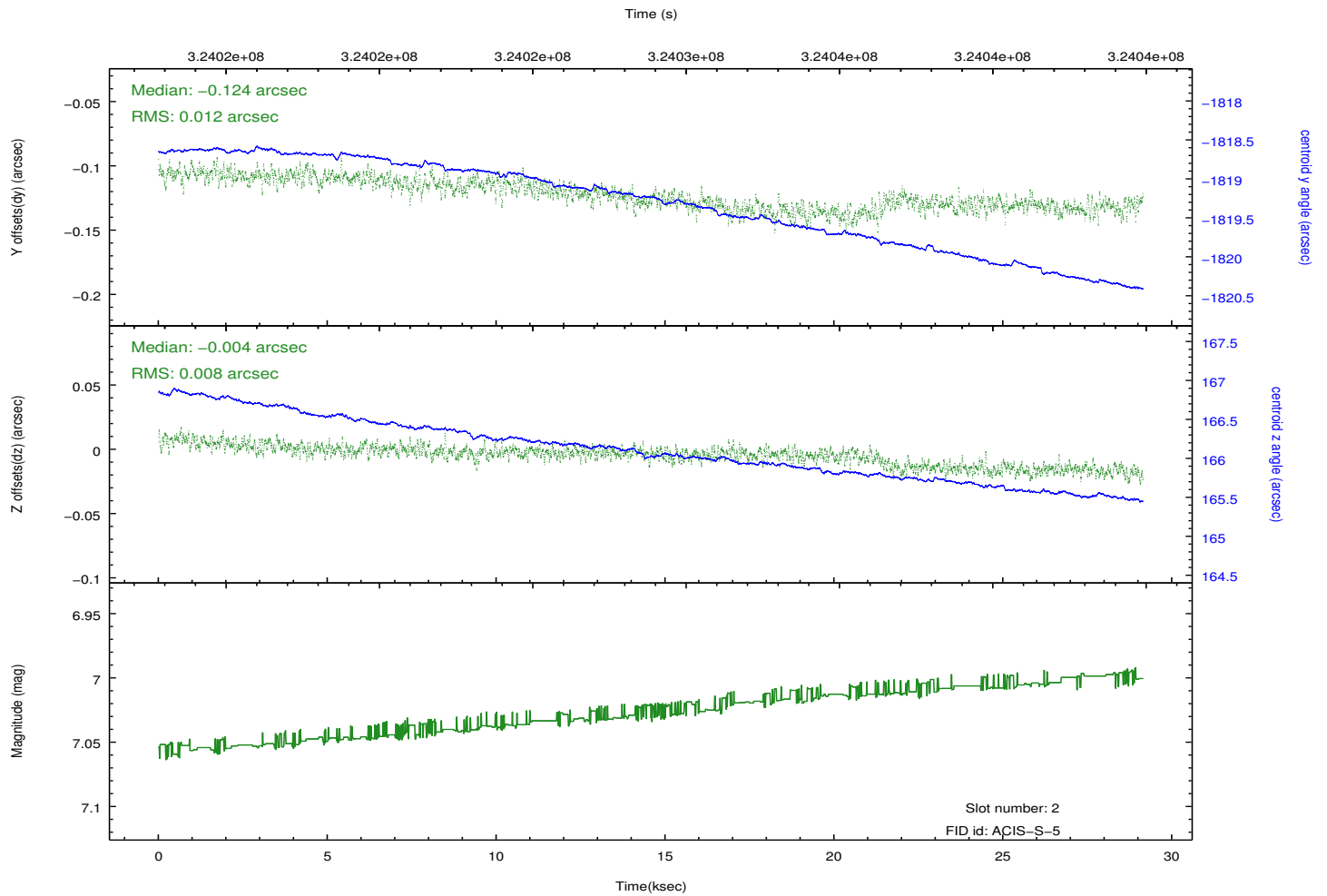
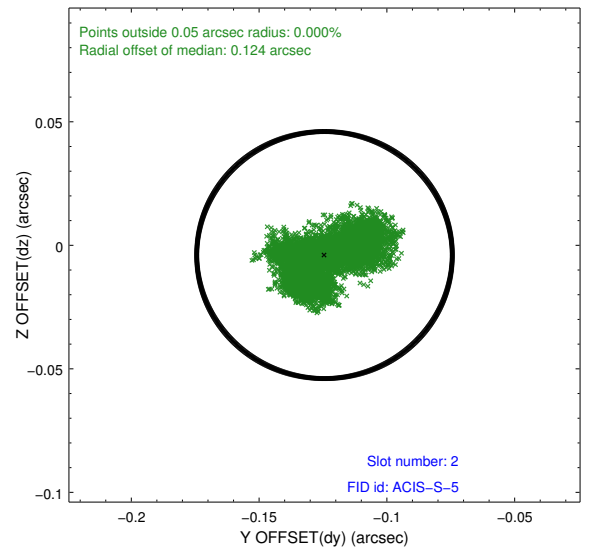
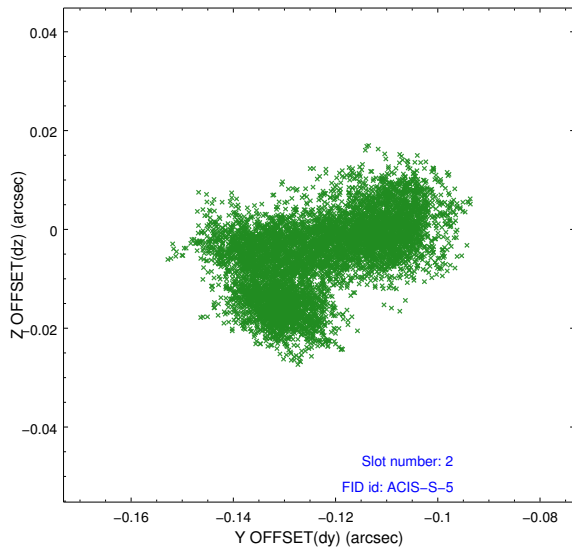
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.05.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 29.1419982 |

A.2 Comments