

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17879 - L2 Version 1
Chandra X-Ray Center

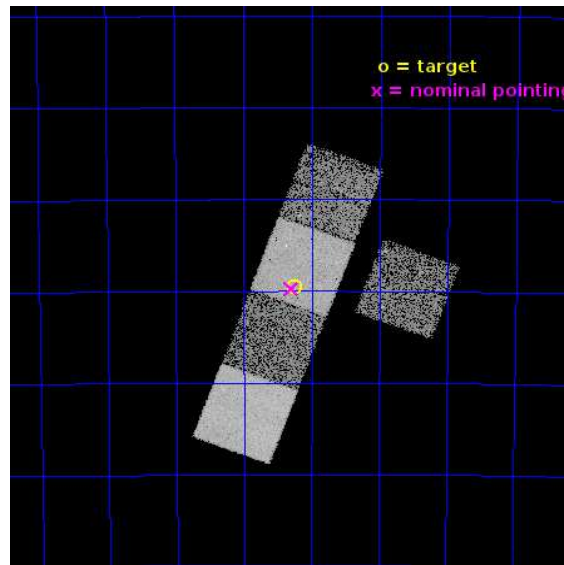
L2 Processing Date : Nov 12 2015

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1 Front

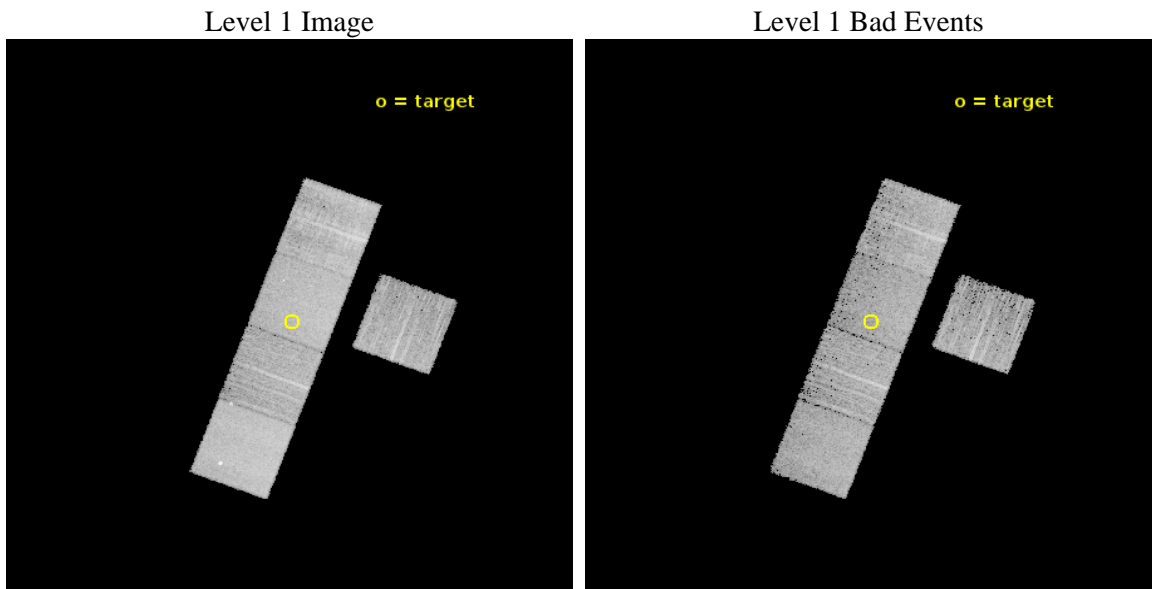
| | | |
|----------|---|---|
| seq_num | 502498 | Sequence number |
| obs_id | 17879 | Observation id |
| title | Source of energy and pre-explosion progenitor evolution of Super-Luminous SNe | Proposal title |
| observer | Dr Raffaella Margutti | Principal investigator |
| object | ASASSN-15lh | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 330.564375 | Observer's specified target RA [deg] |
| dec_targ | -61.659611 | Observer's specified target Dec [deg] |
| ra_nom | 330.57424470932 | Nominal RA [deg] |
| dec_nom | -61.662347069649 | Nominal Dec [deg] |
| roll_nom | 290.45283562527 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 10040.900077343 | Sum of GTIs [s] |
| livetime | 9909.7083258294 | Livetime [s] |
| ontime3 | 10040.900077343 | Sum of GTIs [s] |
| ontime5 | 10040.900077343 | Sum of GTIs [s] |
| ontime6 | 10040.900077343 | Sum of GTIs [s] |
| ontime7 | 10040.900077343 | Sum of GTIs [s] |
| ontime8 | 10040.900077343 | Sum of GTIs [s] |
| l2events | 84959 | Number of level 2 events |



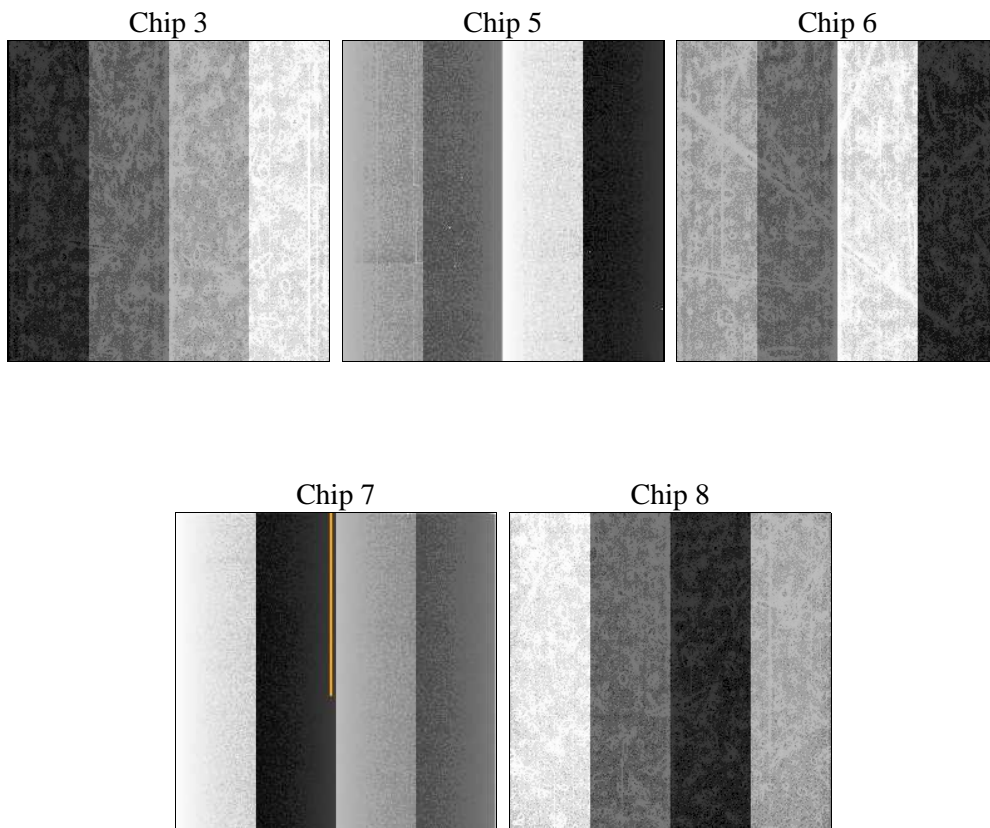
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.4.2.1 | Processing system revision | ontime | 10040.900077343 | Sum of GTIs [s] |
| caldbver | 4.6.10a | | ontime3 | 10040.900077343 | Sum of GTIs [s] |
| date | 2015-11-12T21:04:52 | Date and time of file creation | ontime5 | 10040.900077343 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 10040.900077343 | Sum of GTIs [s] |
| | | | ontime7 | 10040.900077343 | Sum of GTIs [s] |
| | | | ontime8 | 10040.900077343 | Sum of GTIs [s] |
| | | | l1events | 329065 | Number of level 1 events |

2.1.4 Events

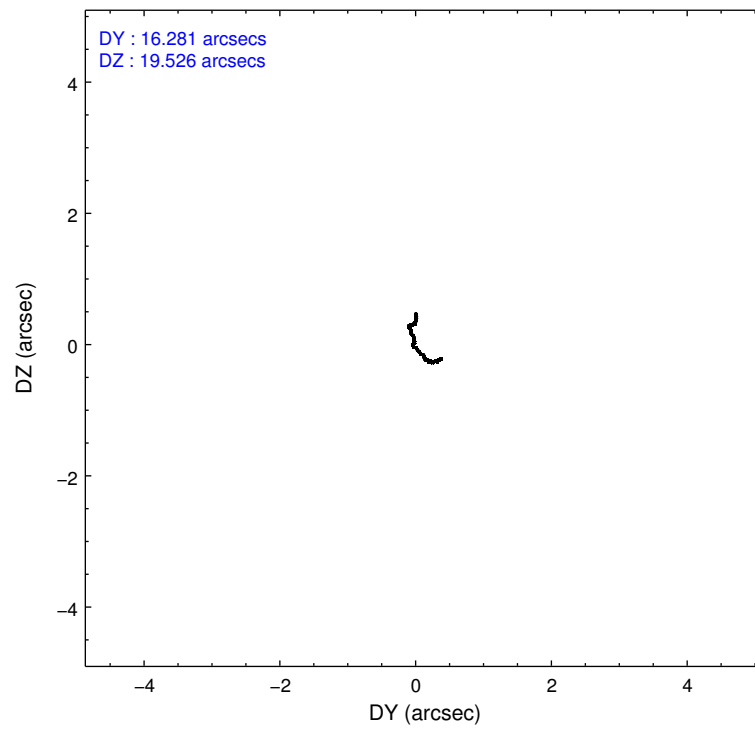
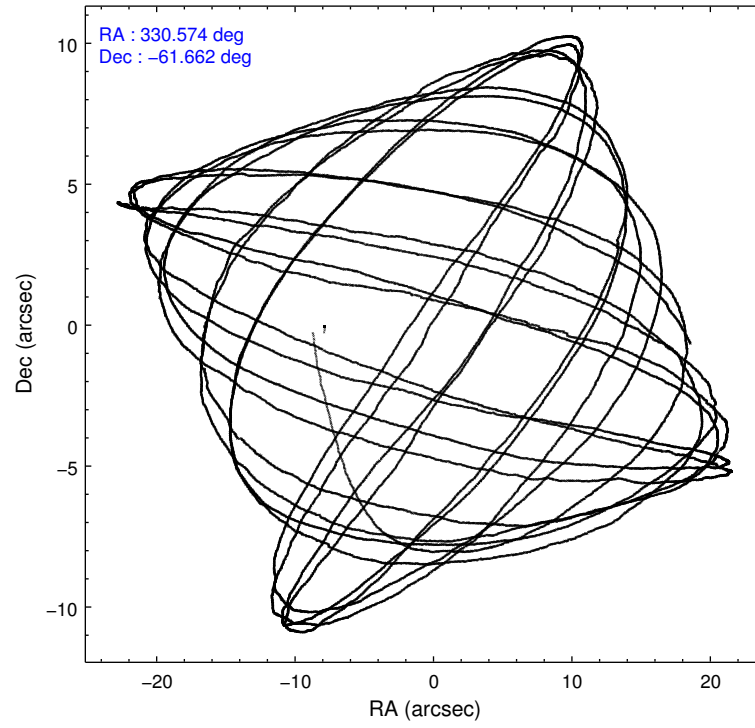
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 49254 | 85369 | 52242 | 70252 | 71948 |
| rejected events | 43594 | 44588 | 46087 | 40294 | 52332 |
| rejected % | 88% | 52% | 88% | 57% | 72% |

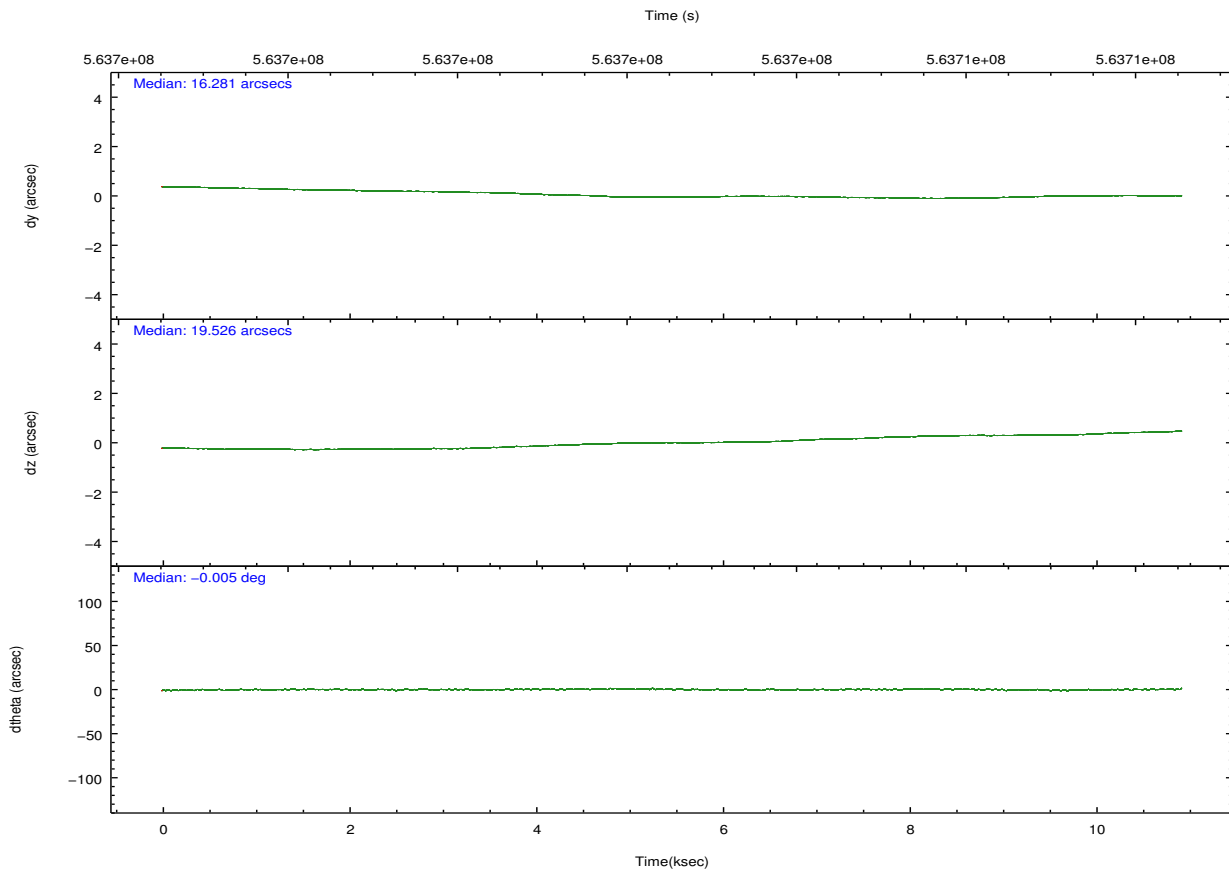
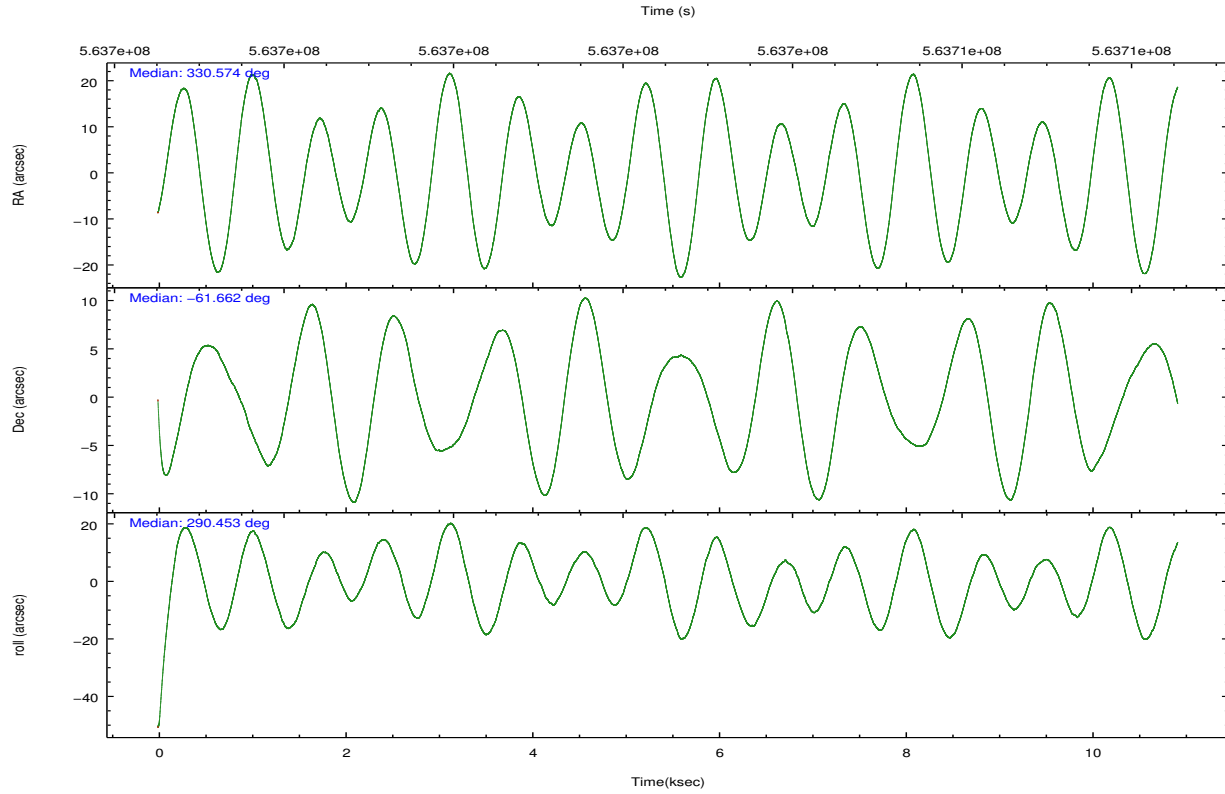
| | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 2028 | 3089 | 2026 | 2550 | 5588 |
| | 4% | 3% | 3% | 3% | 7% |
| grade 1 events | 37 | 196 | 24 | 75 | 49 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1240 | 12419 | 1406 | 6282 | 4774 |
| | 2% | 14% | 2% | 8% | 6% |
| grade 3 events | 567 | 1279 | 644 | 2375 | 2061 |
| | 1% | 1% | 1% | 3% | 2% |
| grade 4 events | 593 | 1229 | 612 | 2351 | 2008 |
| | 1% | 1% | 1% | 3% | 2% |
| grade 5 events | 2645 | 5942 | 2533 | 6987 | 3782 |
| | 5% | 6% | 4% | 9% | 5% |
| grade 6 events | 1234 | 22776 | 1469 | 16413 | 5201 |
| | 2% | 26% | 2% | 23% | 7% |
| grade 7 events | 40910 | 38439 | 43528 | 33219 | 48485 |
| | 83% | 45% | 83% | 47% | 67% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-35678 | ACIS-35678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | CCD I0 on | N | N |
| Observation mode | POINTING | POINTING | CCD I1 on | N | N |
| [deg] Pointing RA | 330.529195 | 330.5742447093224 | CCD I2 on | N | N |
| [deg] Pointing Dec | -61.645181 | -61.66234706964934 | CCD I3 on | O1 | Y |
| [deg] Pointing Roll | 290.256600 | 290.452835625272 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | Y | Y |
| [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) | 563697996.184000 | 563696064.3712699 | CCD S5 on | N | N |
| Observation start date | 2015-11-12T06:45:28 | 2015-11-12T06:14:24 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 563707996.184000 | 563708707.23449 | On-chip summing requested | N | N |
| Observation end date | 2015-11-12T09:32:08 | 2015-11-12T09:45:07 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.1 |

2.3 Aspect





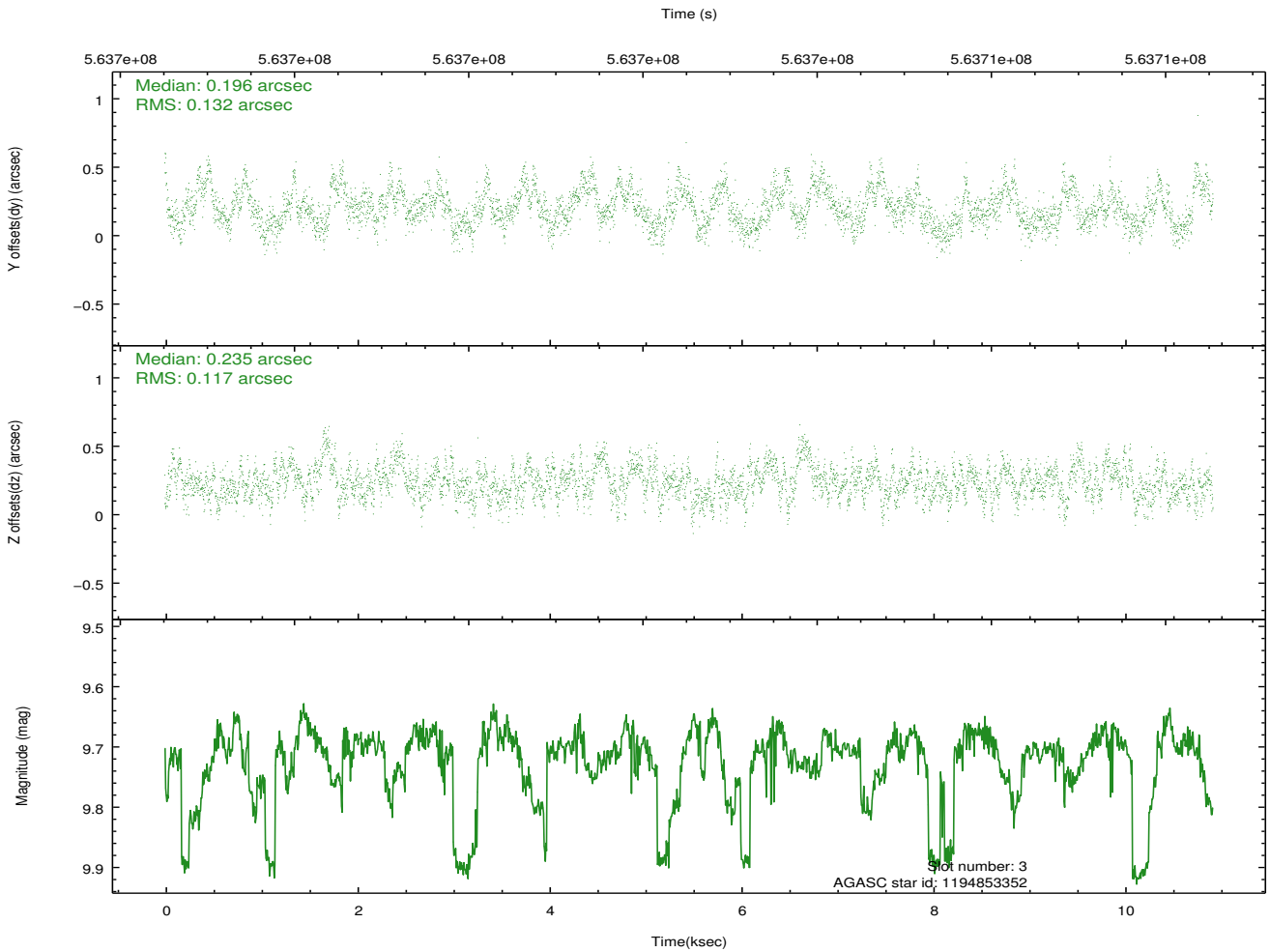
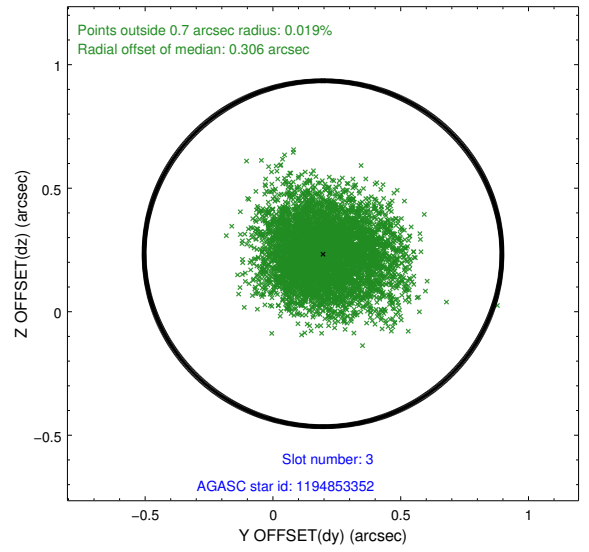
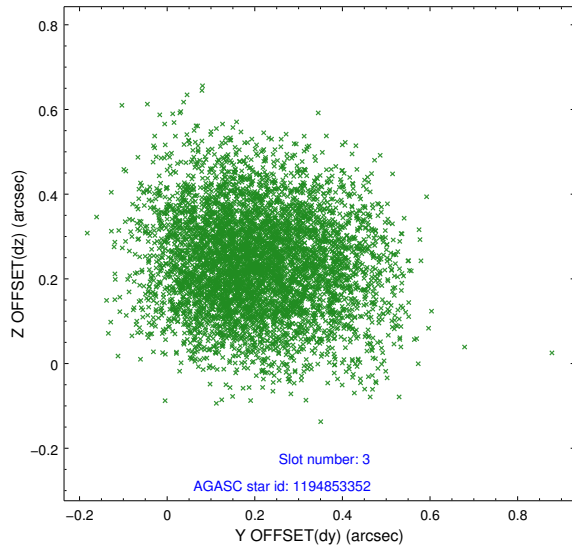
Slot Statistics

| slot | status | used | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | | ACIS-S-2 | 7.12 | 2665 | -0.192 | -0.120 | 0.016 | 0.022 | 0.000000 | 0.000000 | -769.52 | -1741.18 |
| 1 | FID | | ACIS-S-4 | 7.21 | 2665 | 0.445 | 0.124 | 0.007 | 0.012 | 0.000000 | 0.000000 | 2144.15 | 167.10 |
| 2 | FID | | ACIS-S-5 | 7.23 | 2661 | -0.285 | 0.005 | 0.018 | 0.027 | 0.000000 | 0.000000 | -1821.87 | 161.13 |
| 3 | GUIDE | used | 1194853352 | 9.71 | 5320 | 0.196 | 0.235 | 0.189 | 0.302 | 330.194439 | -62.152900 | 1522.11 | -1161.18 |
| 4 | GUIDE | used | 1194859800 | 9.58 | 5322 | -0.100 | 0.117 | 0.149 | 0.248 | 329.309824 | -61.451662 | -1360.60 | -1733.62 |
| 5 | GUIDE | used | 1194865368 | 7.86 | 5325 | -0.286 | -0.277 | 0.125 | 0.187 | 331.076166 | -61.872710 | 1094.42 | 586.15 |
| 6 | GUIDE | used | 1194852672 | 8.48 | 5328 | 0.034 | -0.181 | 0.158 | 0.287 | 329.819066 | -62.476887 | 2407.00 | -2147.32 |
| 7 | GUIDE | used | 1194858016 | 9.26 | 5326 | 0.146 | 0.124 | 0.131 | 0.223 | 329.000964 | -61.605831 | -1008.57 | -2415.99 |

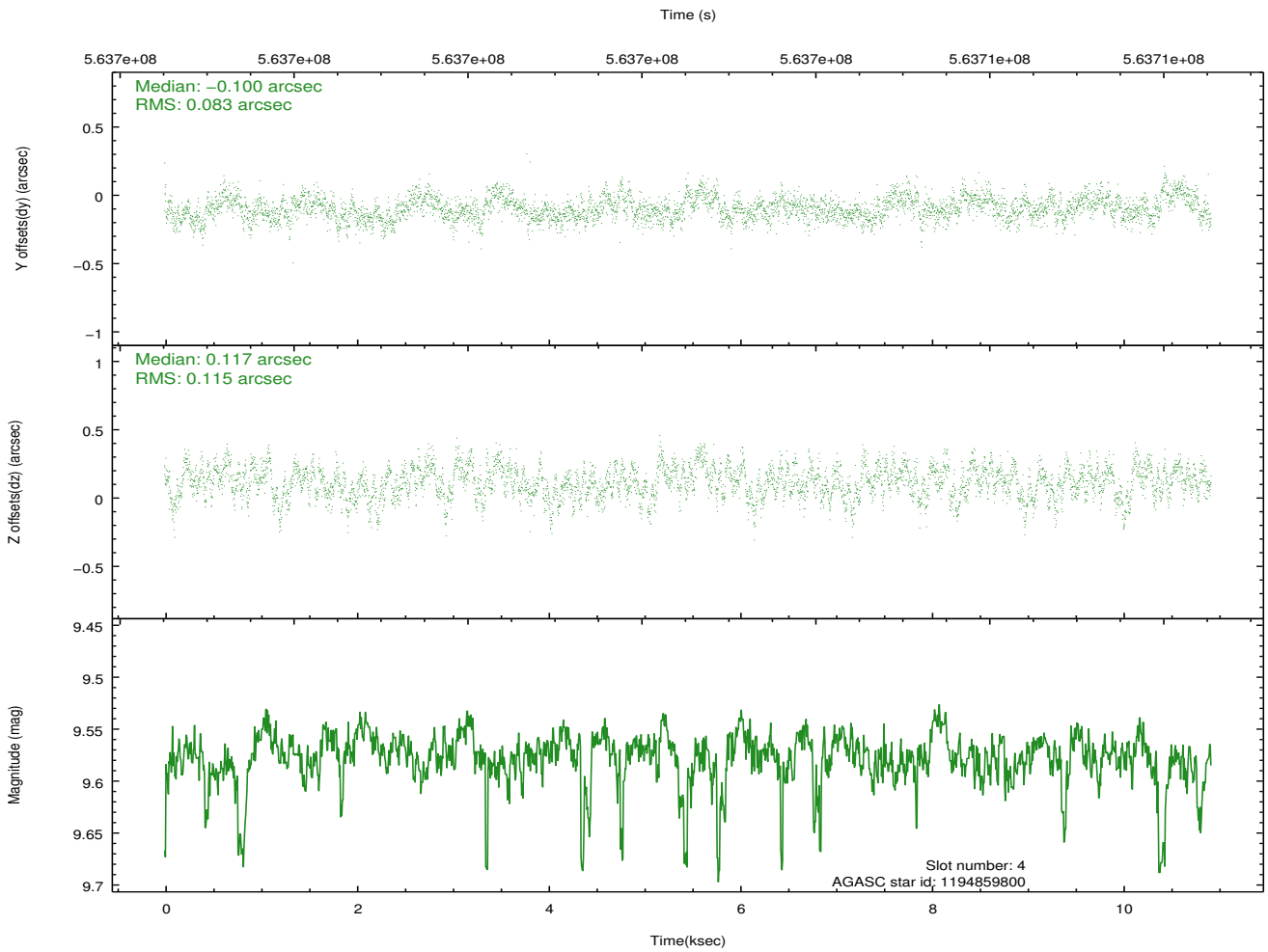
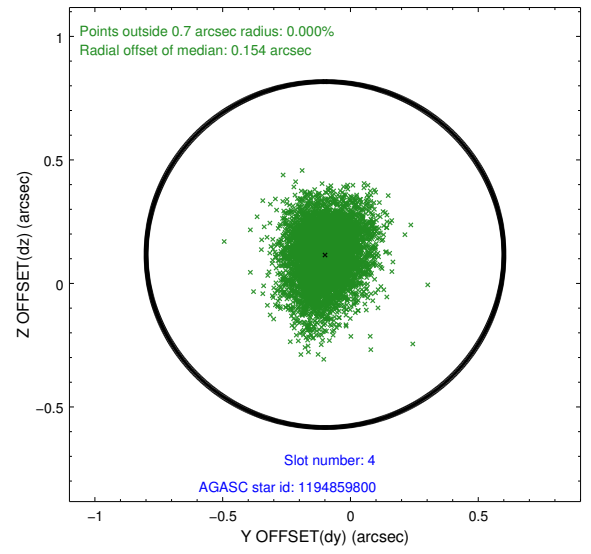
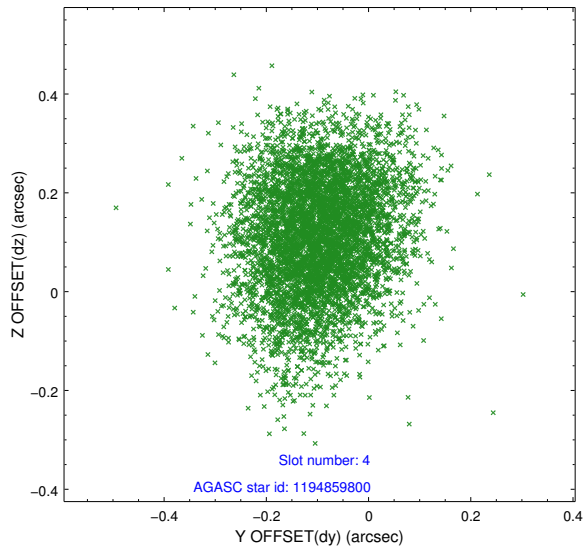
∞

2.4 Star Slots

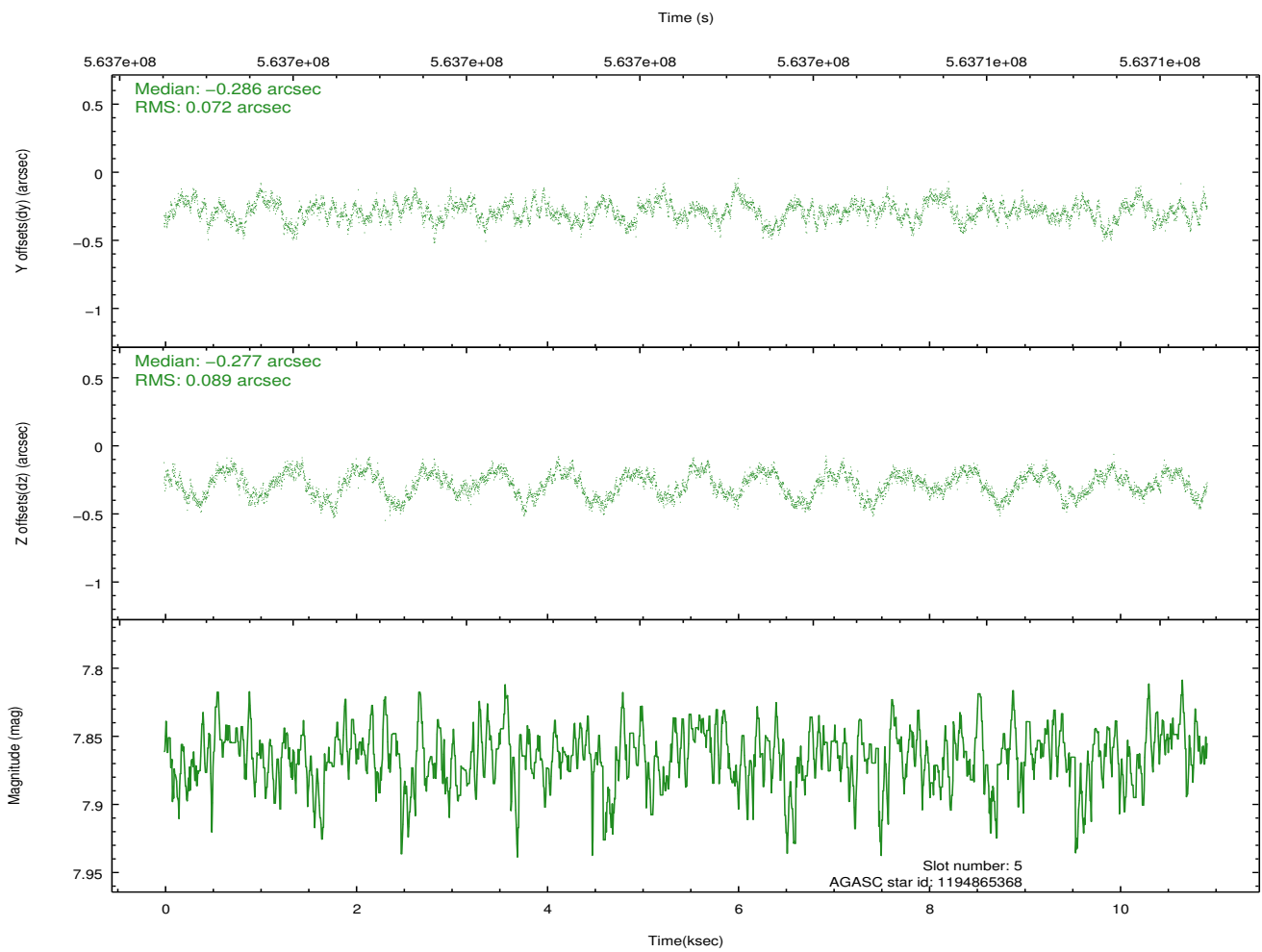
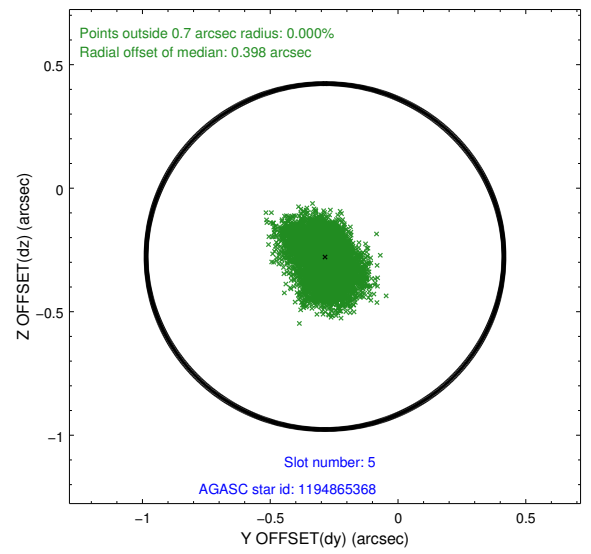
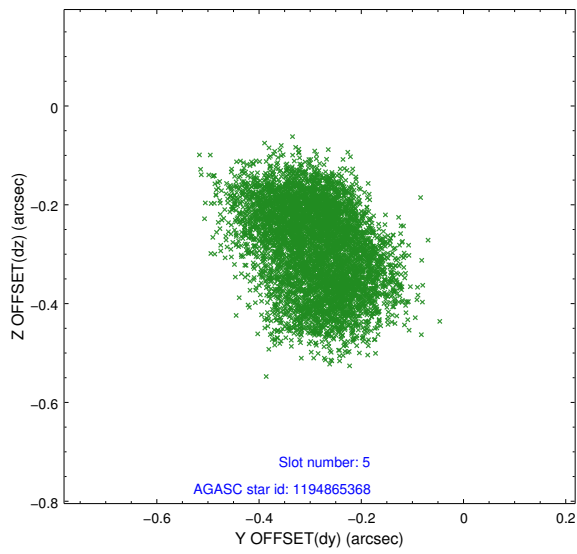
2.4.1 Slot 3



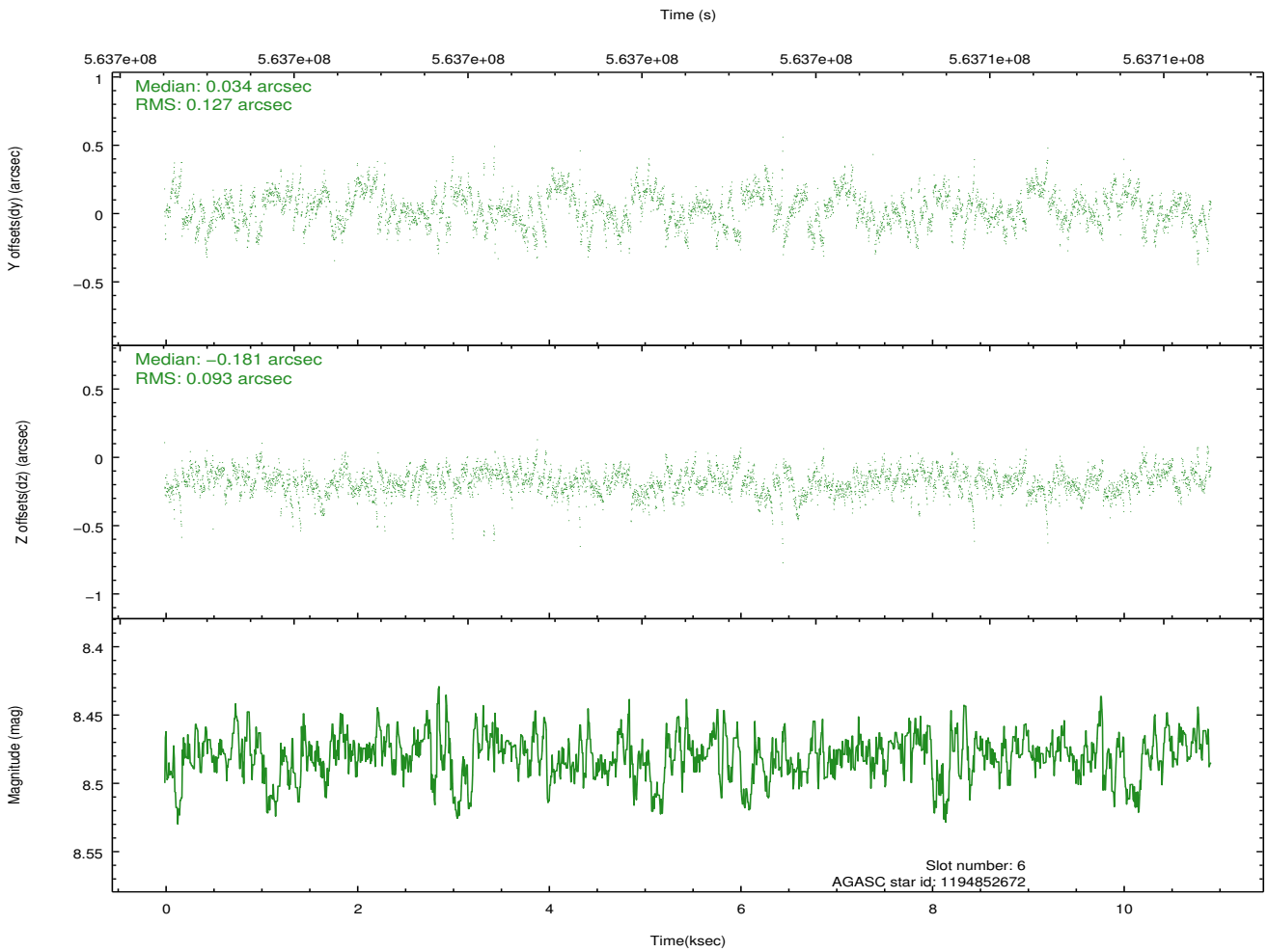
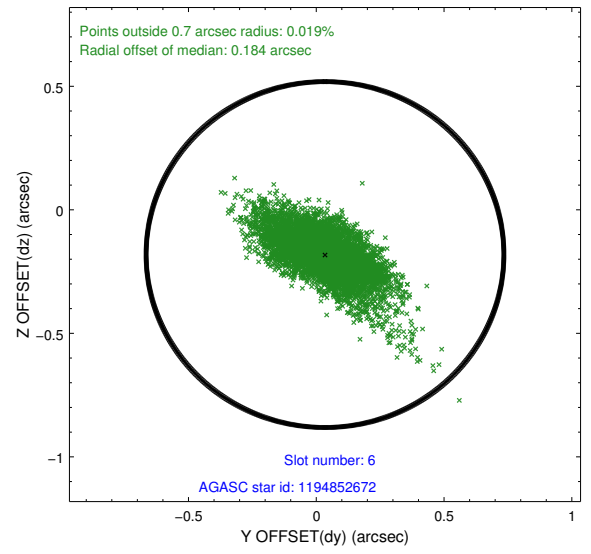
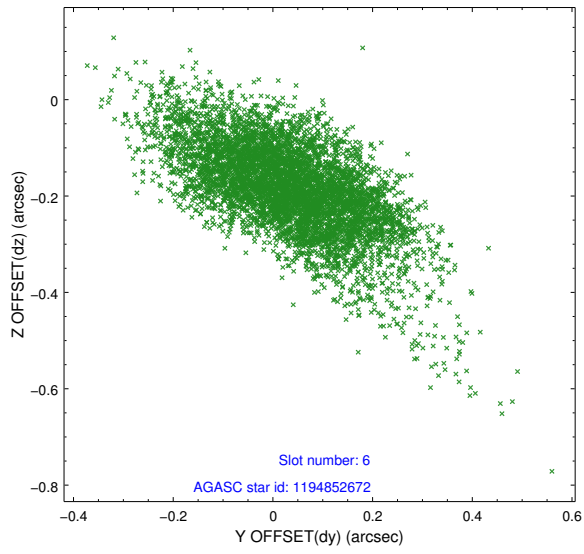
2.4.2 Slot 4



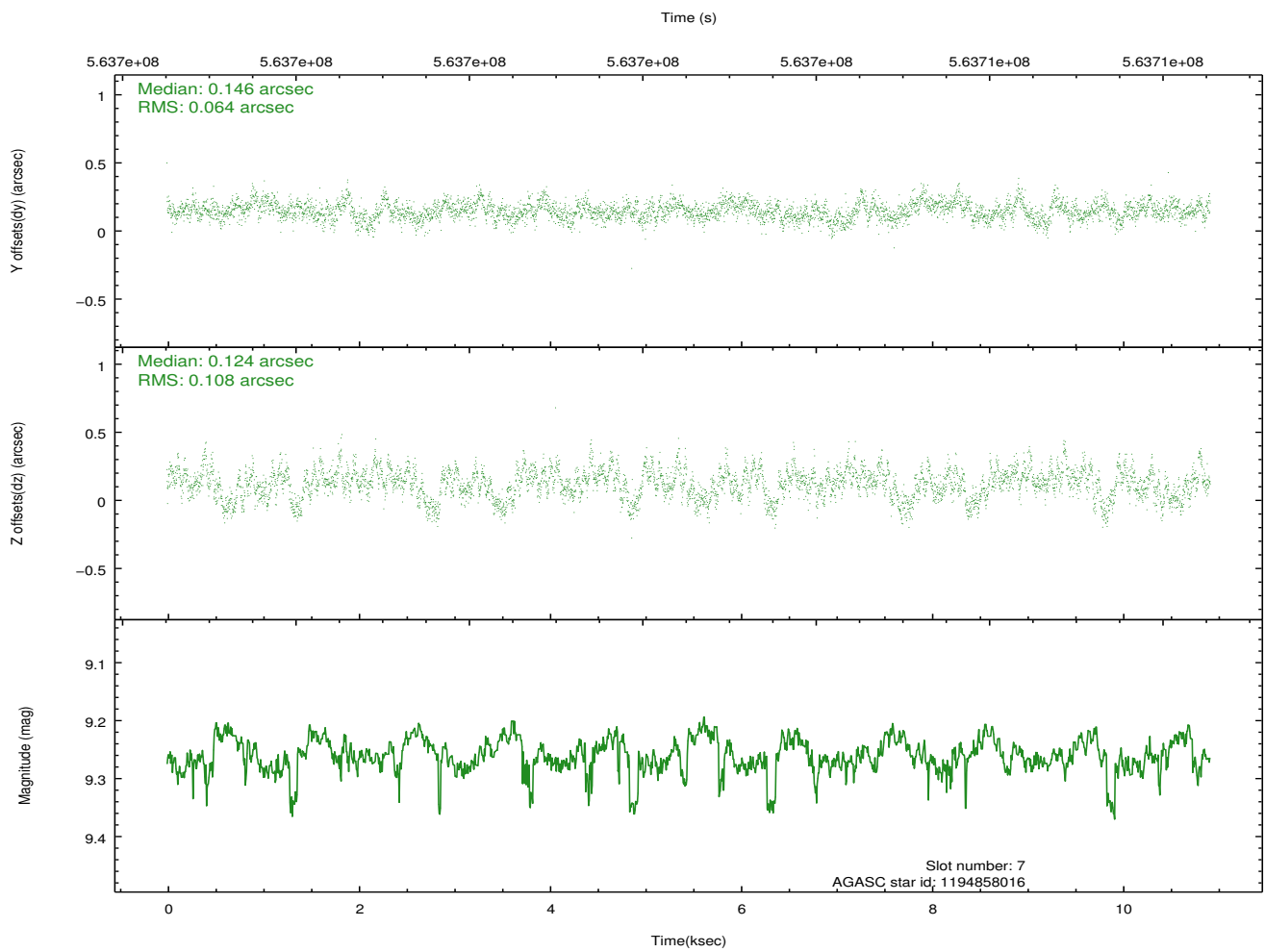
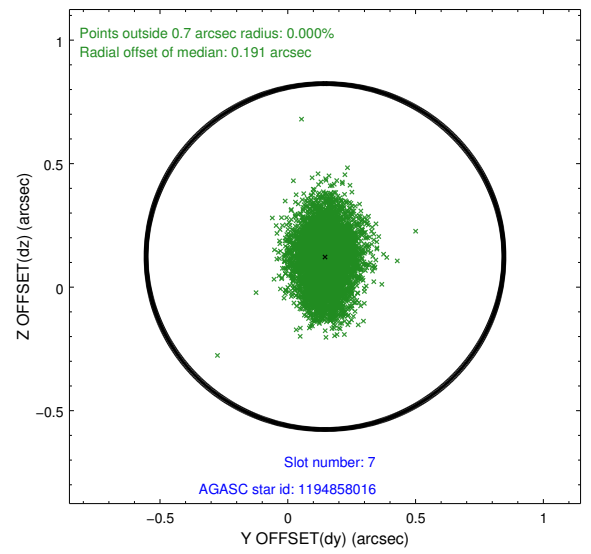
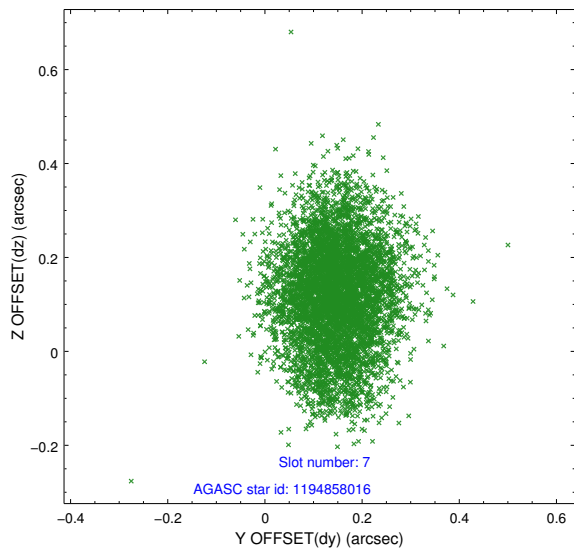
2.4.3 Slot 5



2.4.4 Slot 6

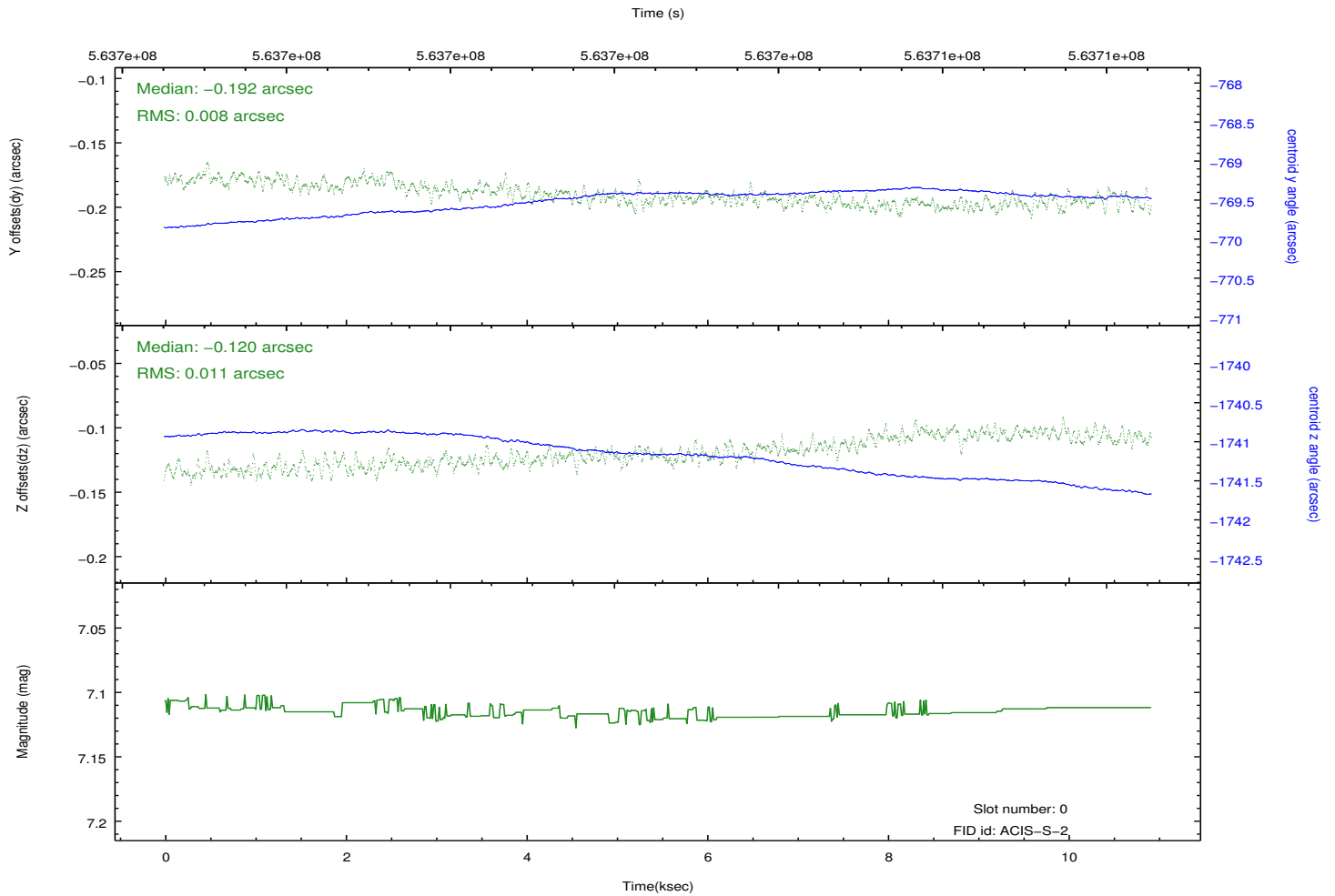
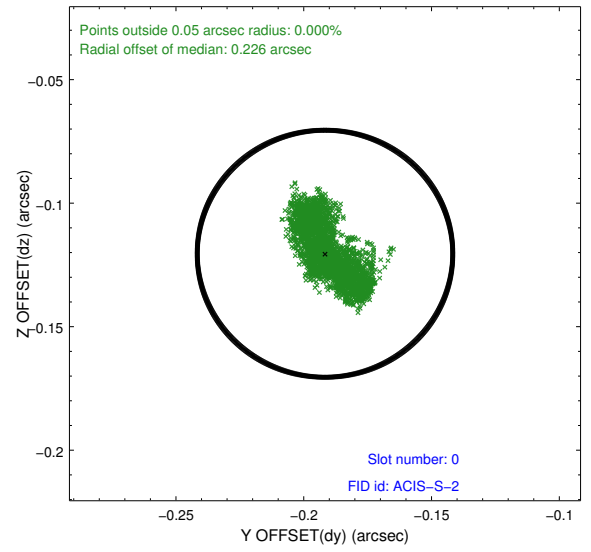
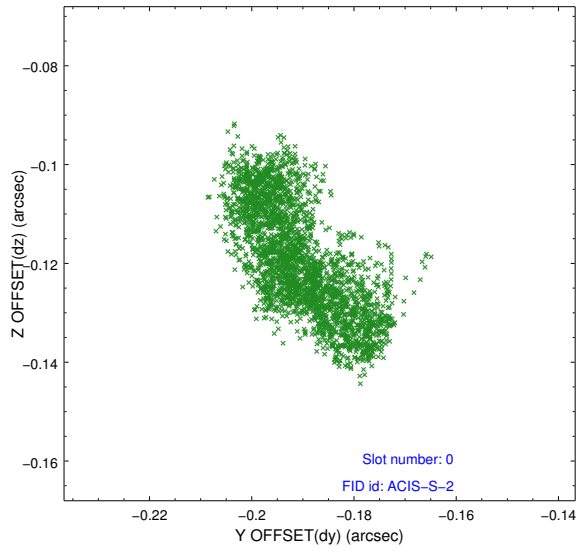


2.4.5 Slot 7

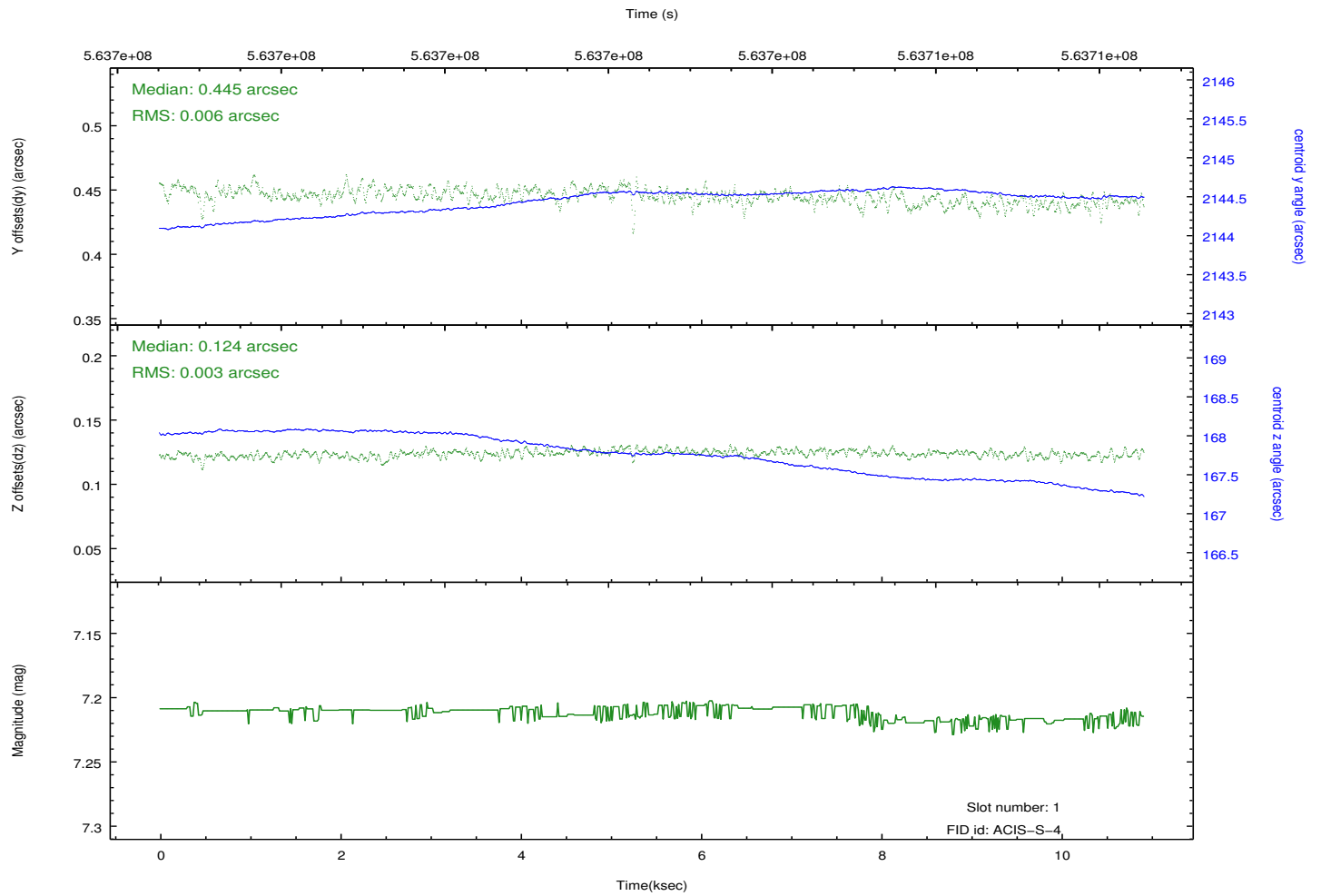
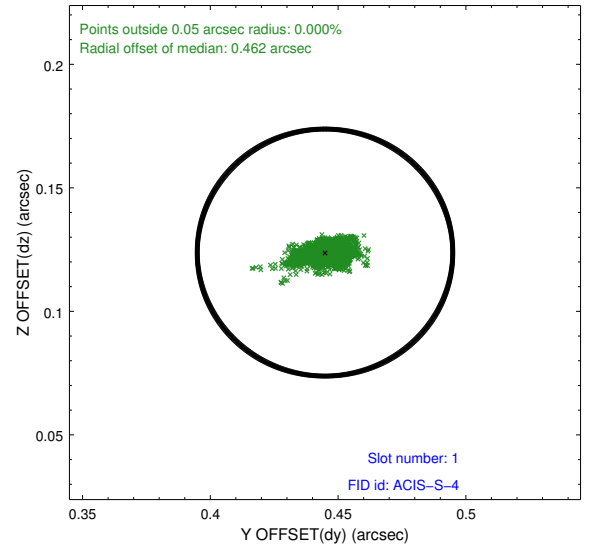
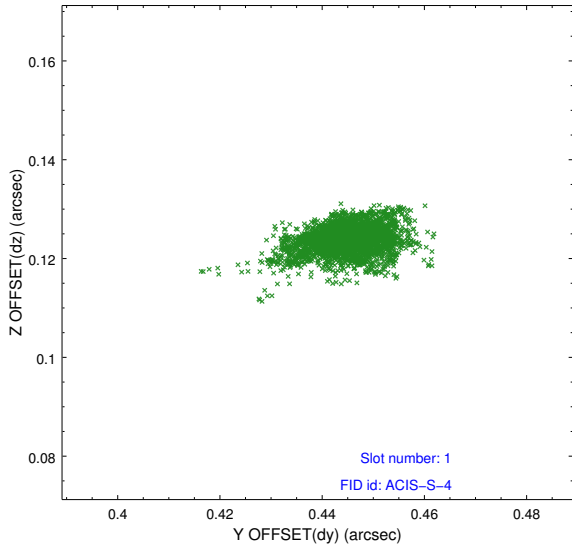


2.5 FID Slots

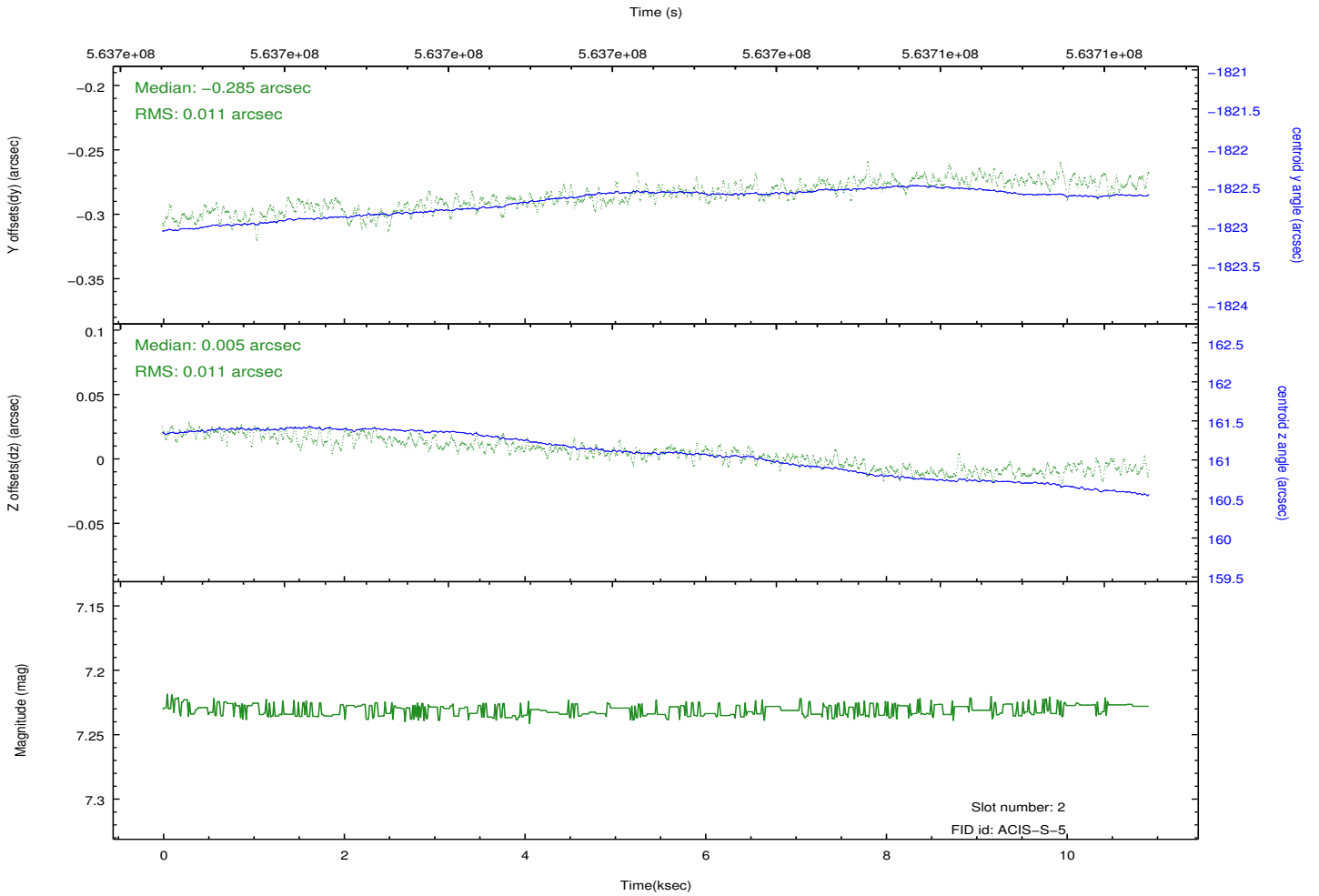
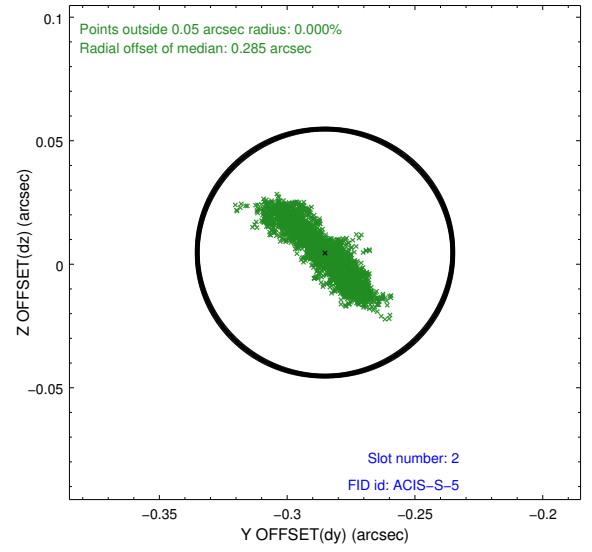
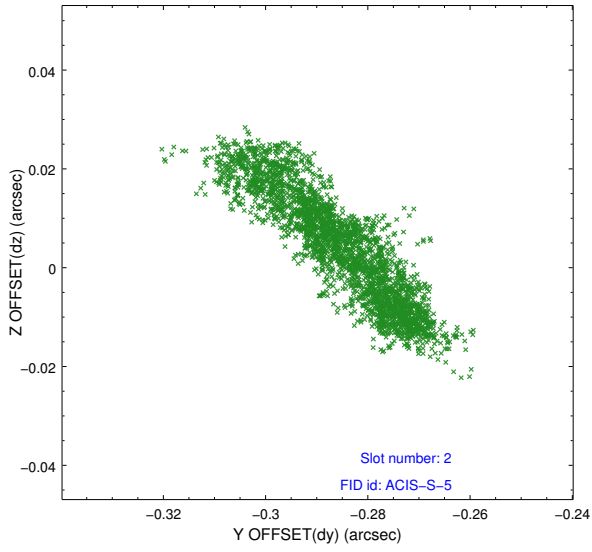
2.5.1 Slot 0



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) | 2015.11.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.040900077343 |

A.2 Comments