

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22248 - L2 Version 1
Chandra X-Ray Center

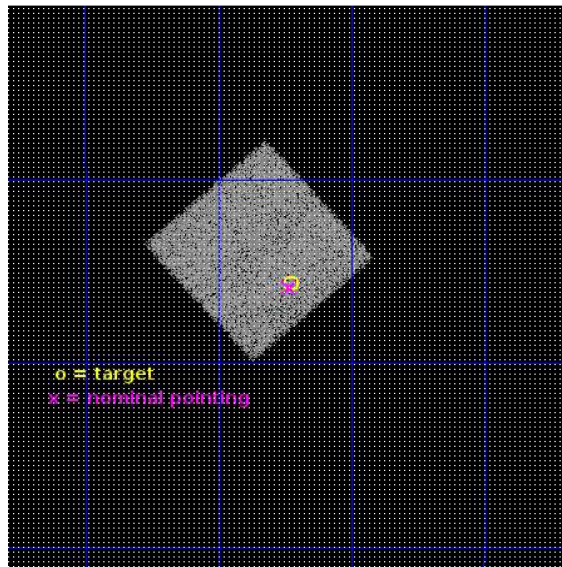
L2 Processing Date : Jun 6 2019

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1 Front

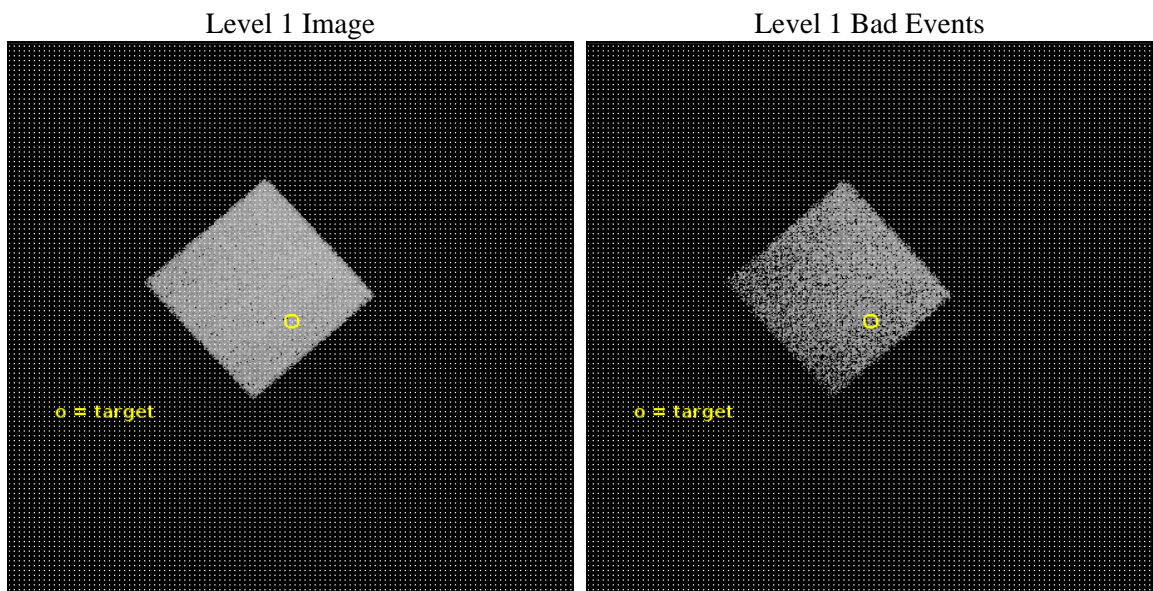
| | | |
|----------|---|---|
| seq_num | 703899 | Sequence number |
| obs_id | 22248 | Observation id |
| title | C-BASS: A Chandra Legacy Survey of AGN at the Highest Spatial Resolutions | Proposal title |
| observer | Michael Koss | Principal investigator |
| object | ESO565-19 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 143.681473 | Observer's specified target RA [deg] |
| dec_targ | -21.927786 | Observer's specified target Dec [deg] |
| ra_nom | 143.68304788015 | Nominal RA [deg] |
| dec_nom | -21.931546068687 | Nominal Dec [deg] |
| roll_nom | 228.15719357065 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 10090.791960001 | Sum of GTIs [s] |
| livetime | 9954.6128561292 | Livetime [s] |
| ontime7 | 10090.791960001 | Sum of GTIs [s] |
| l2events | 41255 | Number of level 2 events |



2 OBI

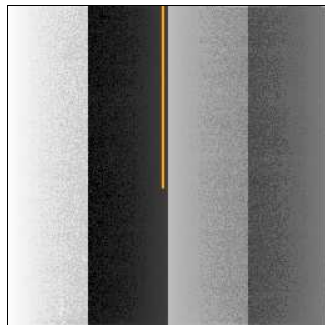
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.7.1 | Processing system revision | ontime | 10090.791960001 | Sum of GTIs [s] |
| caldsver | 4.8.3 | | ontime7 | 10090.791960001 | Sum of GTIs [s] |
| date | 2019-06-06T23:52:20 | Date and time of file creation | l1events | 97442 | Number of level 1 events |
| revision | 1 | Processing version of data | | | |

2.1.4 Events

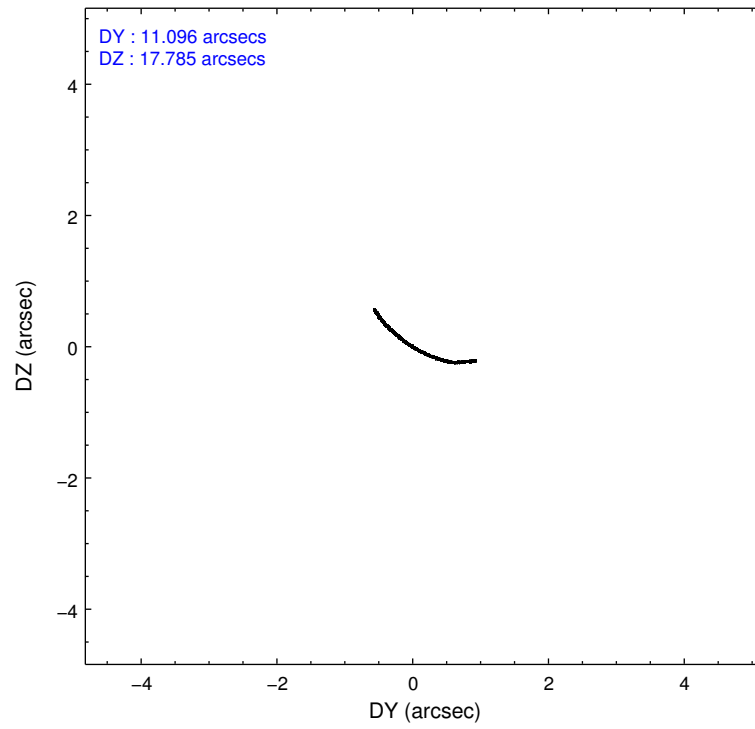
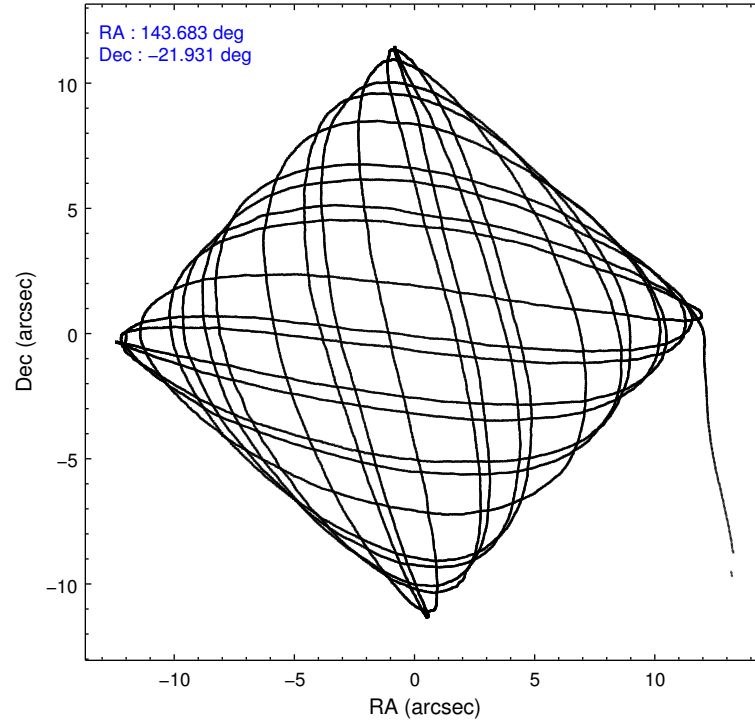
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 97442 |
| rejected events | 55069 |
| rejected % | 56% |

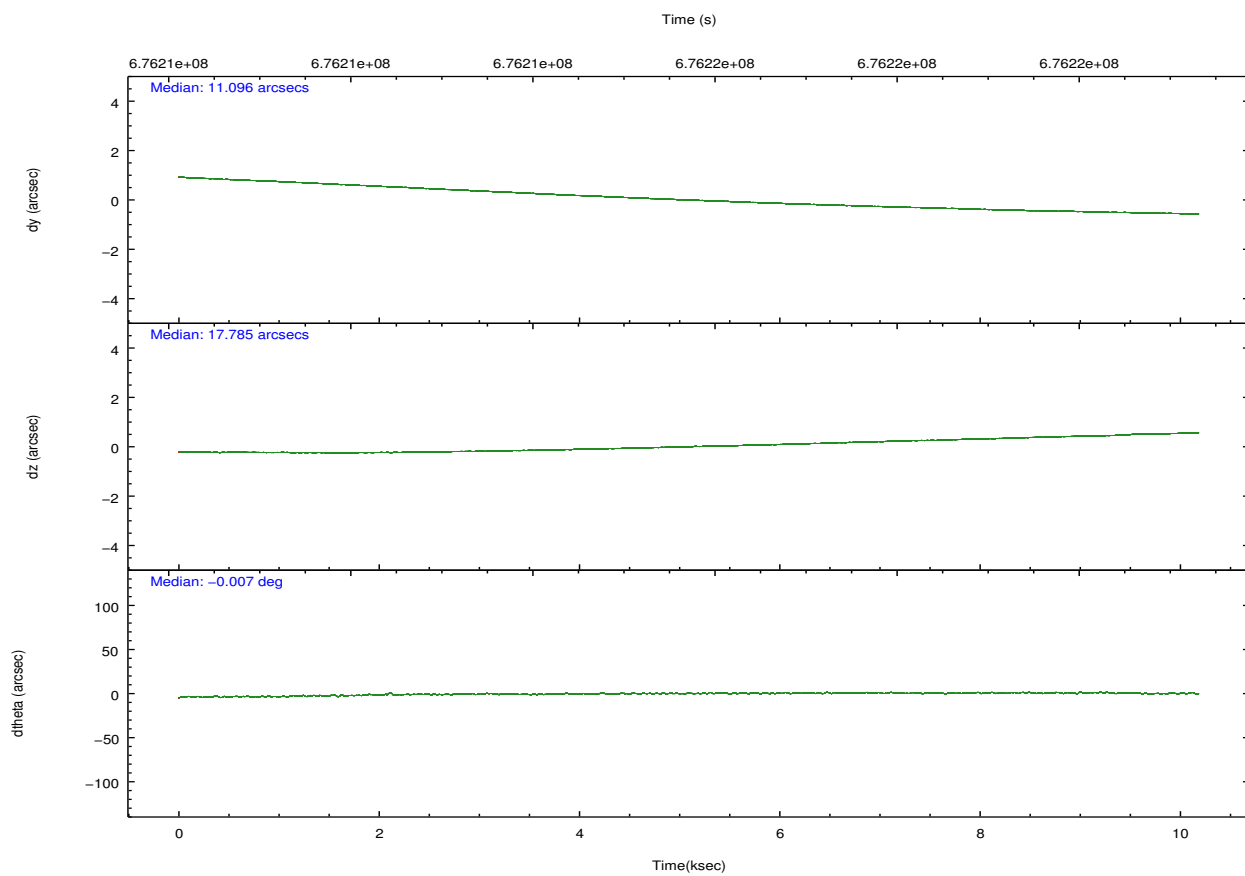
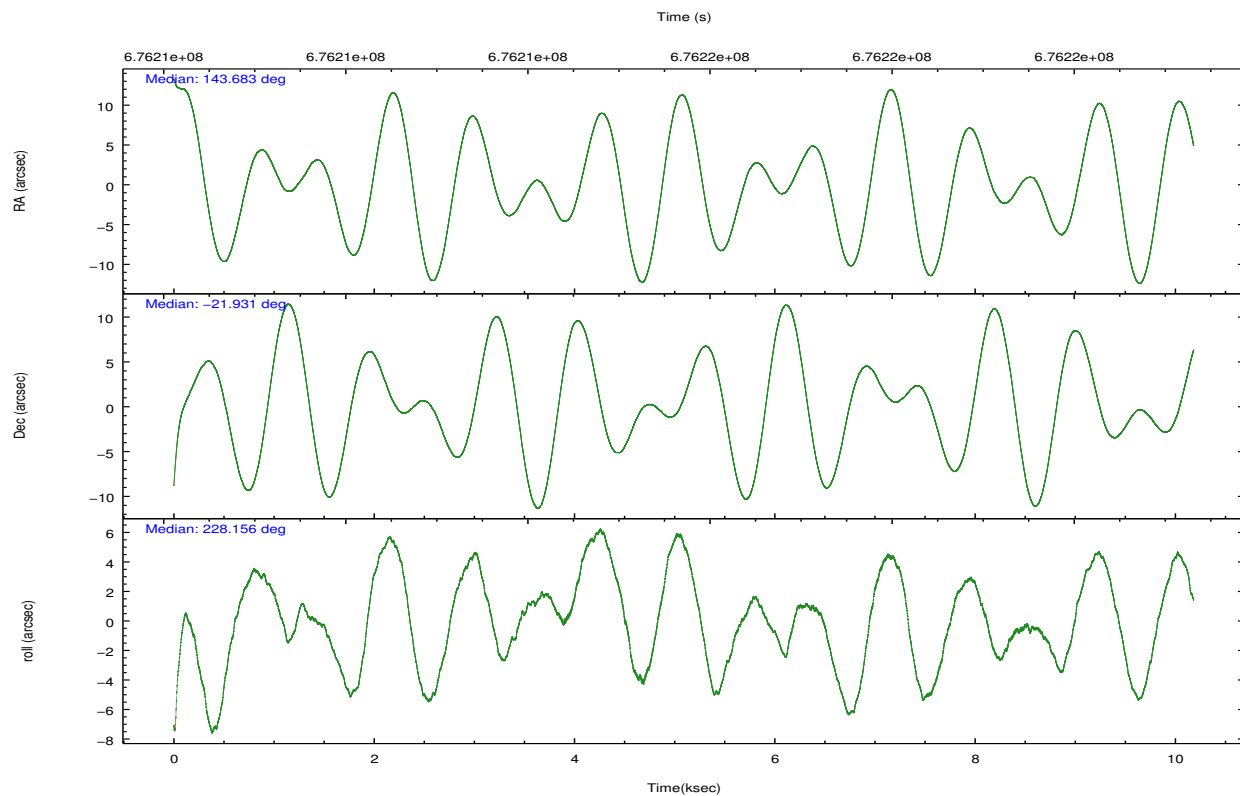
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 3564 |
| | 3% |
| grade 1 events | 129 |
| | 0% |
| grade 2 events | 8912 |
| | 9% |
| grade 3 events | 3358 |
| | 3% |
| grade 4 events | 3221 |
| | 3% |
| grade 5 events | 9260 |
| | 9% |
| grade 6 events | 23347 |
| | 23% |
| grade 7 events | 45651 |
| | 46% |

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 | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 143.688676 | 143.6830478801461 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -21.904602 | -21.93154606868659 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 228.002686 | 228.1571935706495 | [s] Primary exposure time | 0.000000 | 3 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.001444936568705701 | | | |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| [s] Observation start time (MET) | 676210785.184000 | 676209513.25851 | | | |
| Observation start date | 2019-06-06T12:18:36 | 2019-06-06T11:58:33 | | | |
| [s] Observation end time (MET) | 676220785.184000 | 676221815.30925 | | | |
| Observation end date | 2019-06-06T15:05:16 | 2019-06-06T15:23:35 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



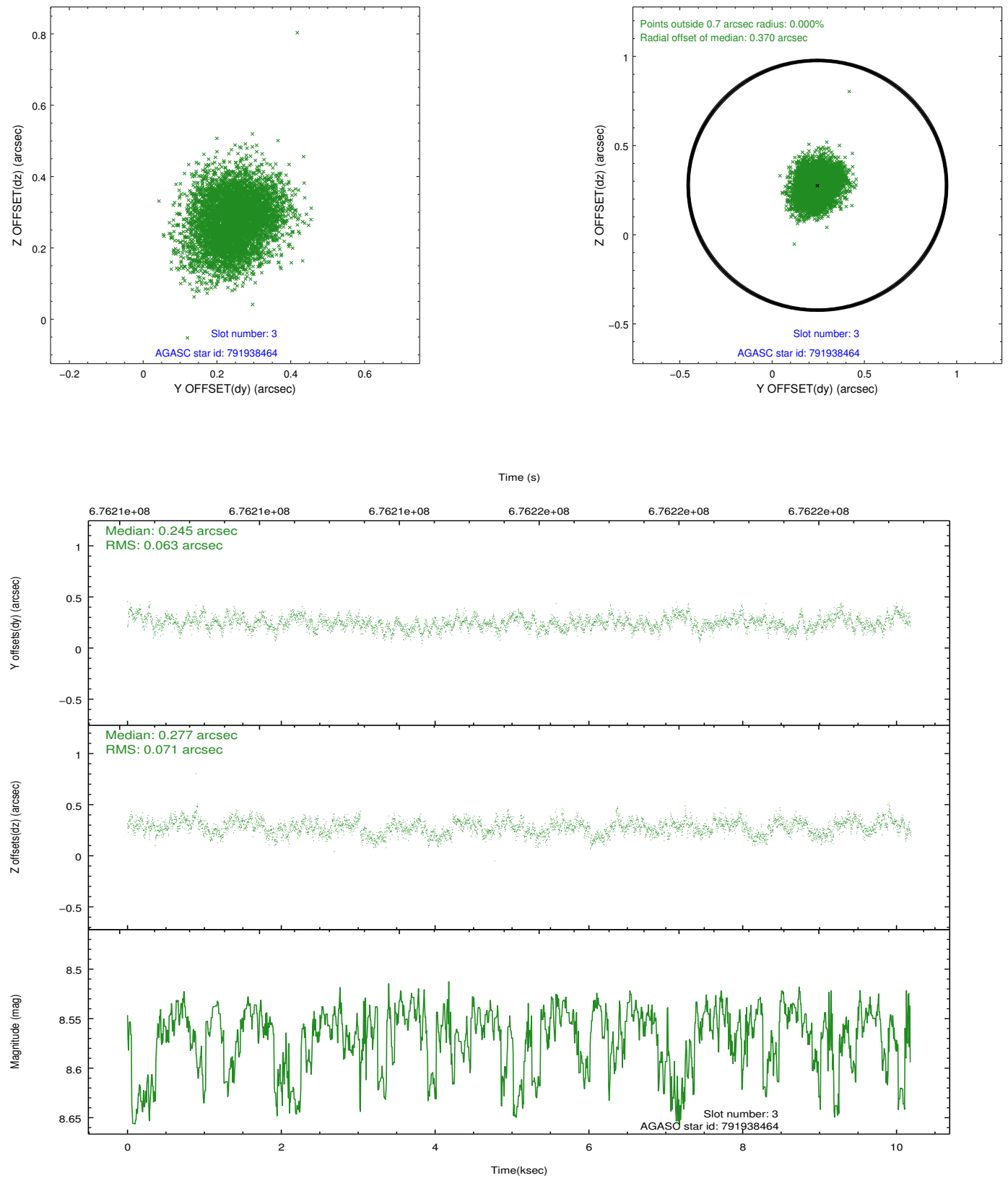


Slot Statistics

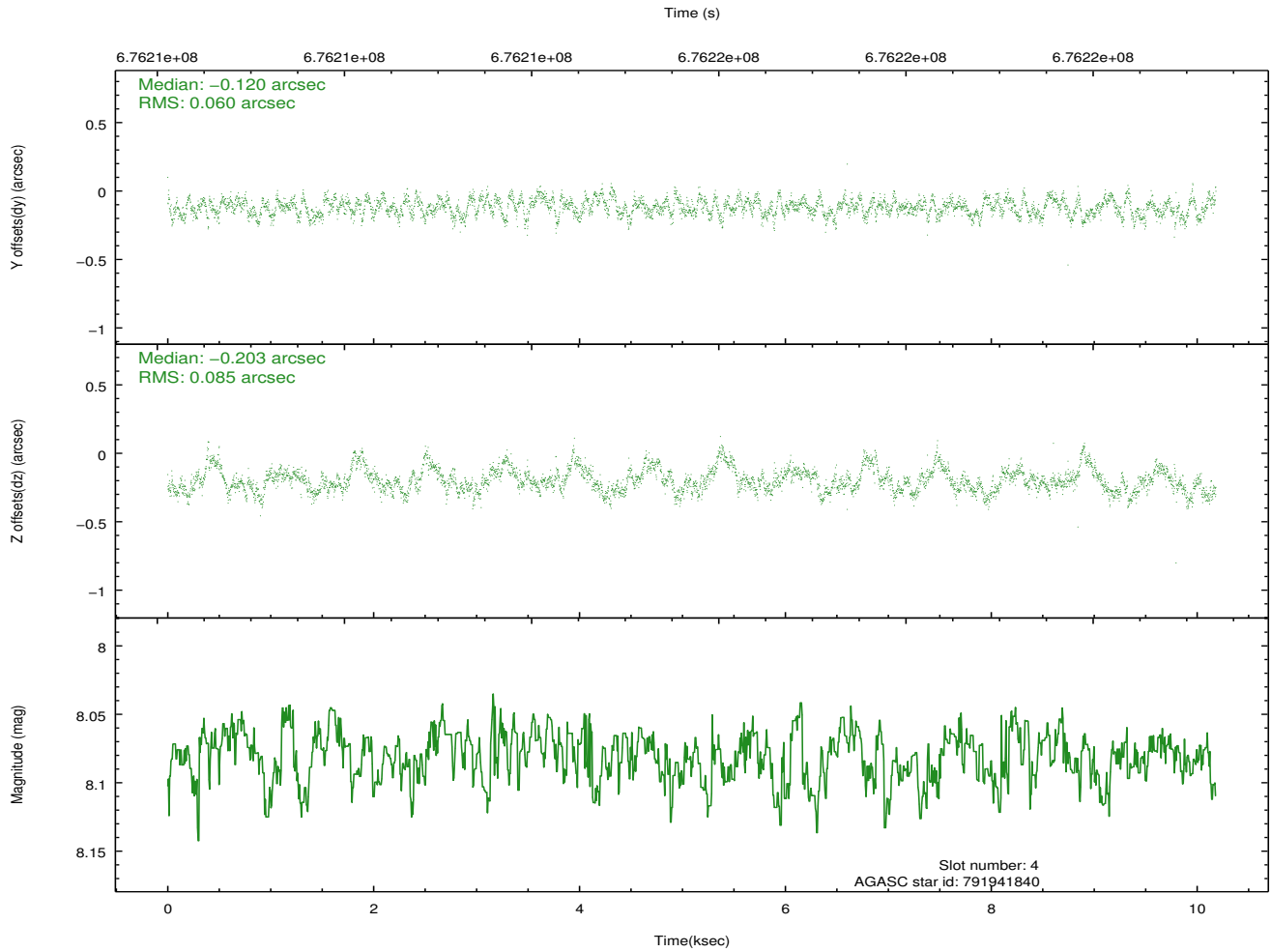
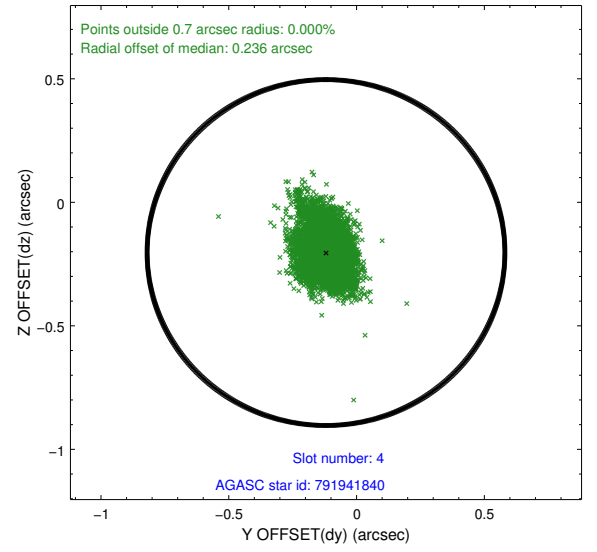
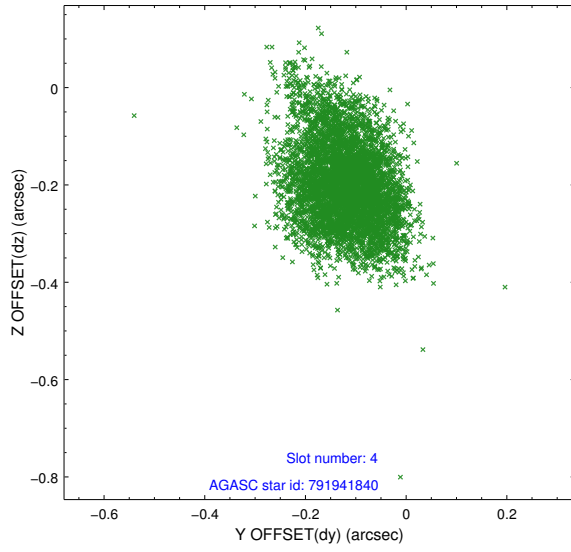
| pt | status | used | id | mag | n_pts | frac_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mea |
|----|--------|------|-----------|------|-------|----------|--------|--------|-------|-------|------------|------------|----------|-------|
| 0 | FID | | ACIS-S-1 | 7.19 | 2484 | 1.000 | 0.166 | -0.056 | 0.024 | 0.034 | 0.000000 | 0.000000 | 932.24 | -1734 |
| 1 | FID | | ACIS-S-5 | 7.21 | 2484 | 1.000 | -0.450 | 0.060 | 0.011 | 0.026 | 0.000000 | 0.000000 | -1817.15 | 162 |
| 2 | FID | | ACIS-S-6 | 7.35 | 2484 | 1.000 | 0.262 | 0.007 | 0.015 | 0.022 | 0.000000 | 0.000000 | 397.24 | 806 |
| 3 | GUIDE | used | 791938464 | 8.56 | 4965 | 1.000 | 0.245 | 0.277 | 0.102 | 0.162 | 143.674076 | -21.100938 | -2115.54 | -1969 |
| 4 | GUIDE | used | 791941840 | 8.08 | 4968 | 1.000 | -0.120 | -0.203 | 0.107 | 0.183 | 143.947530 | -21.947180 | -464.18 | 744 |
| 5 | GUIDE | used | 791949712 | 7.14 | 4968 | 1.000 | 0.352 | -0.039 | 0.133 | 0.221 | 143.323641 | -21.392038 | -550.43 | -2142 |
| 6 | GUIDE | used | 793646696 | 8.15 | 4967 | 1.000 | -0.040 | 0.345 | 0.093 | 0.154 | 144.093176 | -21.464159 | -2083.42 | -53 |
| 7 | GUIDE | used | 865212088 | 8.63 | 4965 | 1.000 | -0.427 | -0.378 | 0.099 | 0.165 | 143.618290 | -22.522338 | 1809.05 | 1313 |

2.4 Star Slots

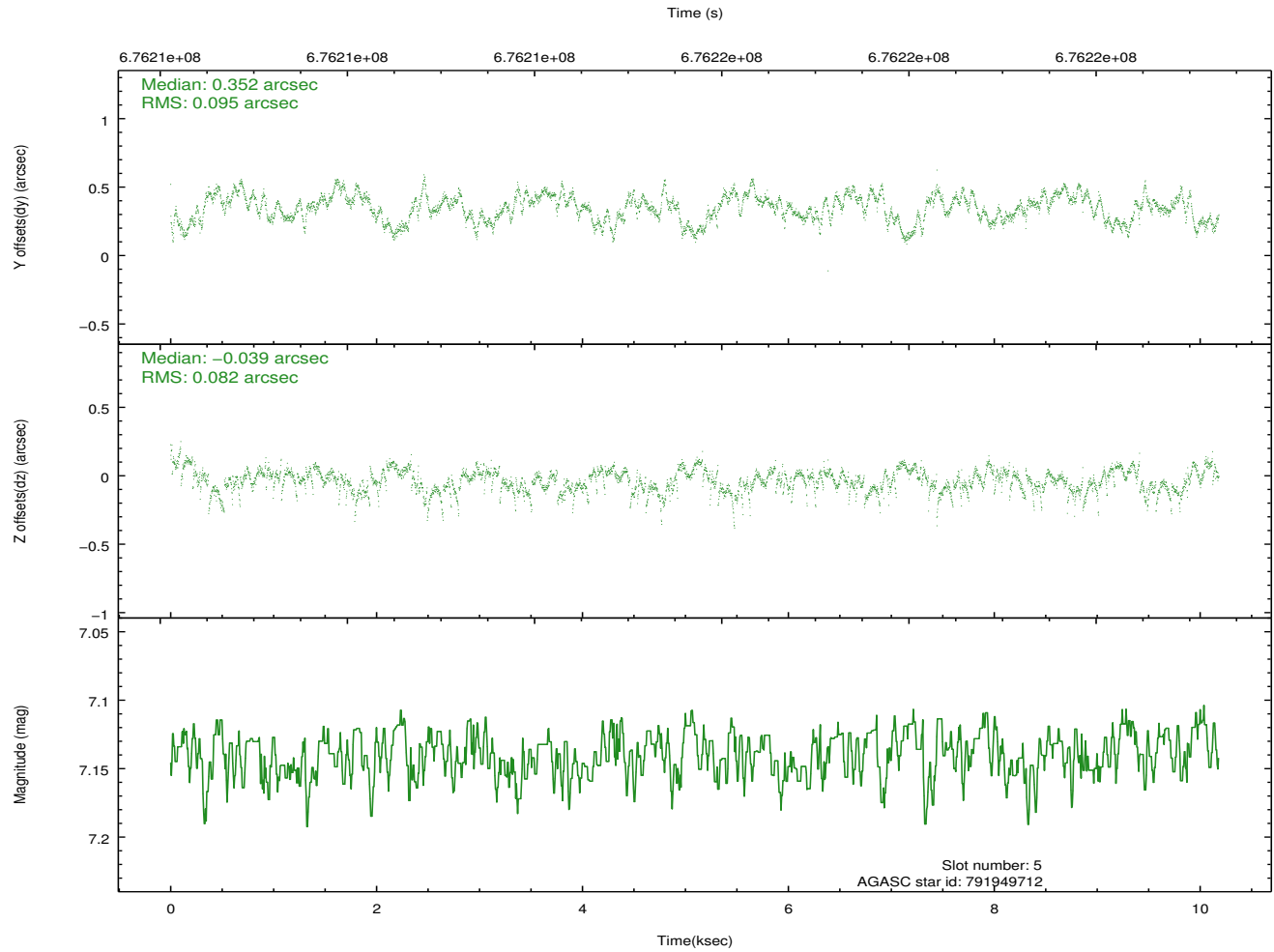
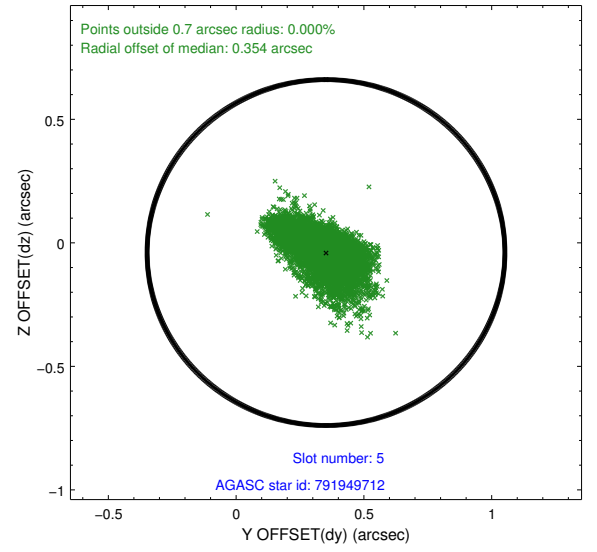
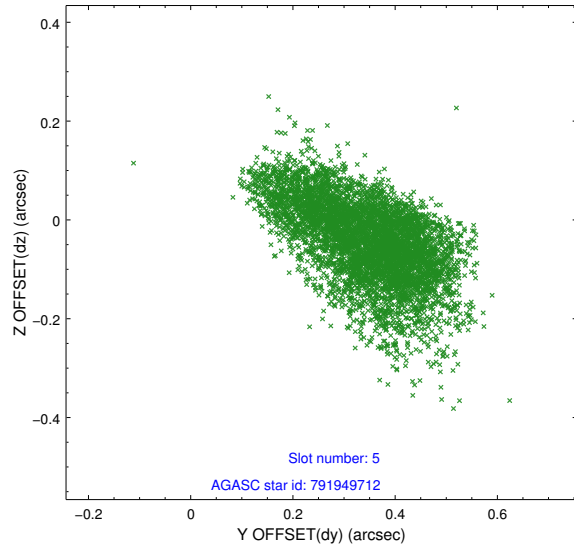
2.4.1 Slot 3



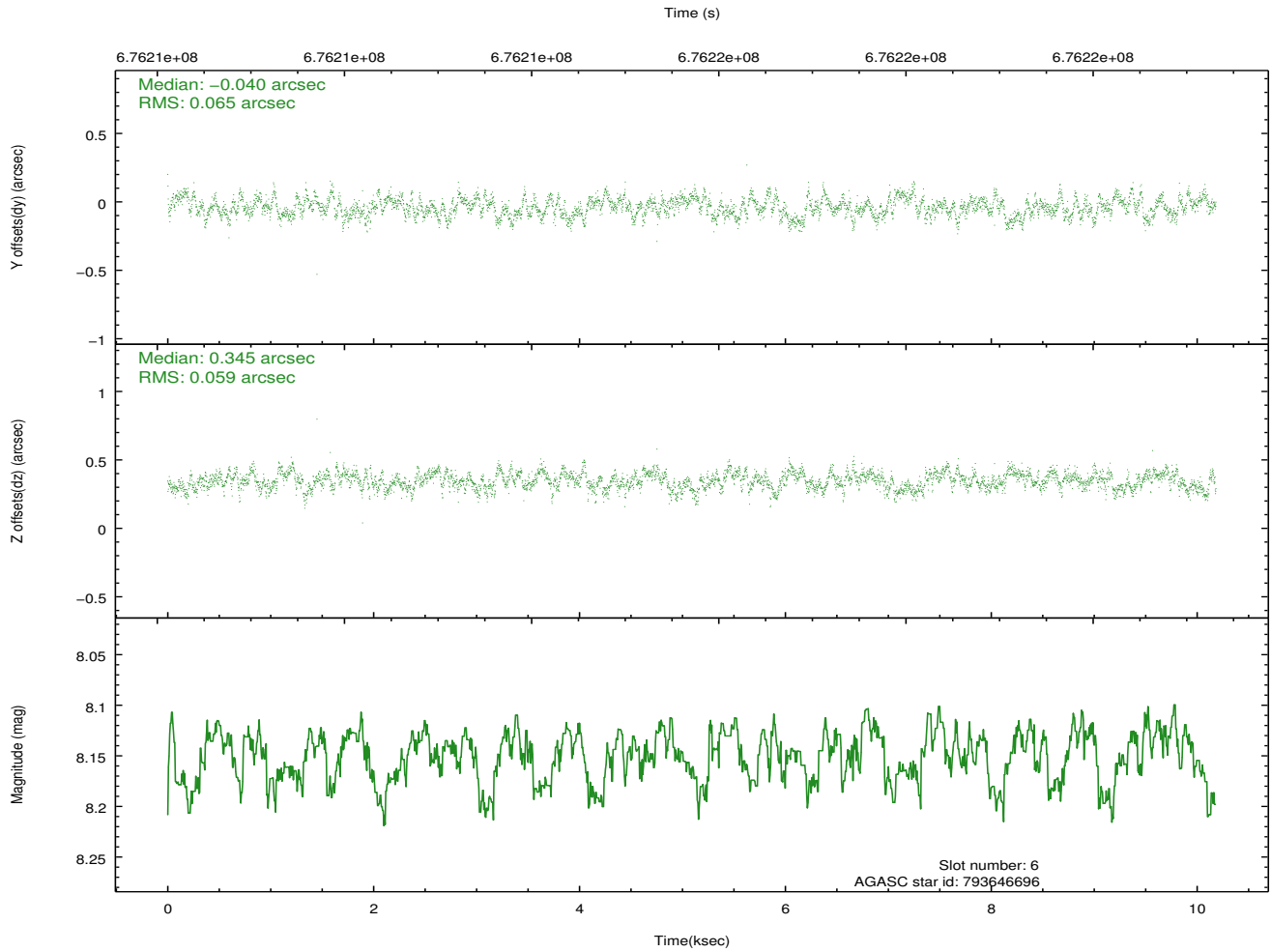
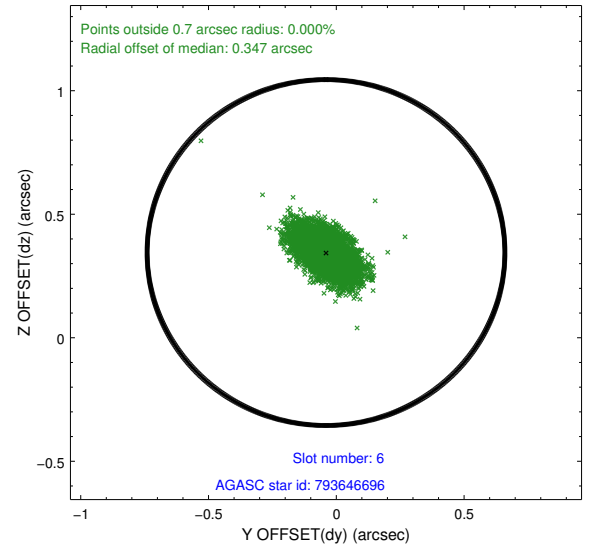
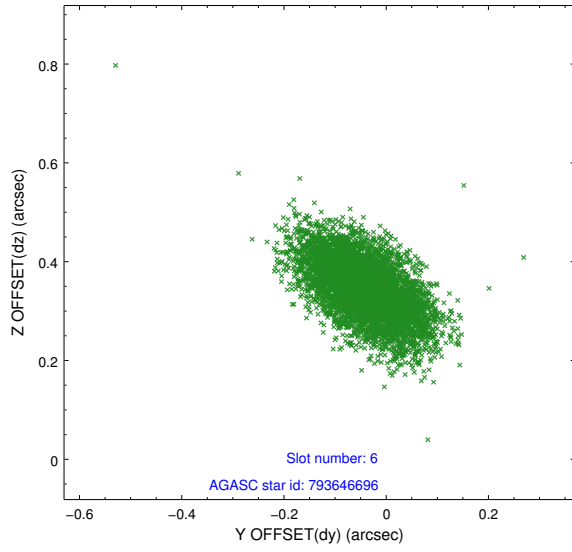
2.4.2 Slot 4



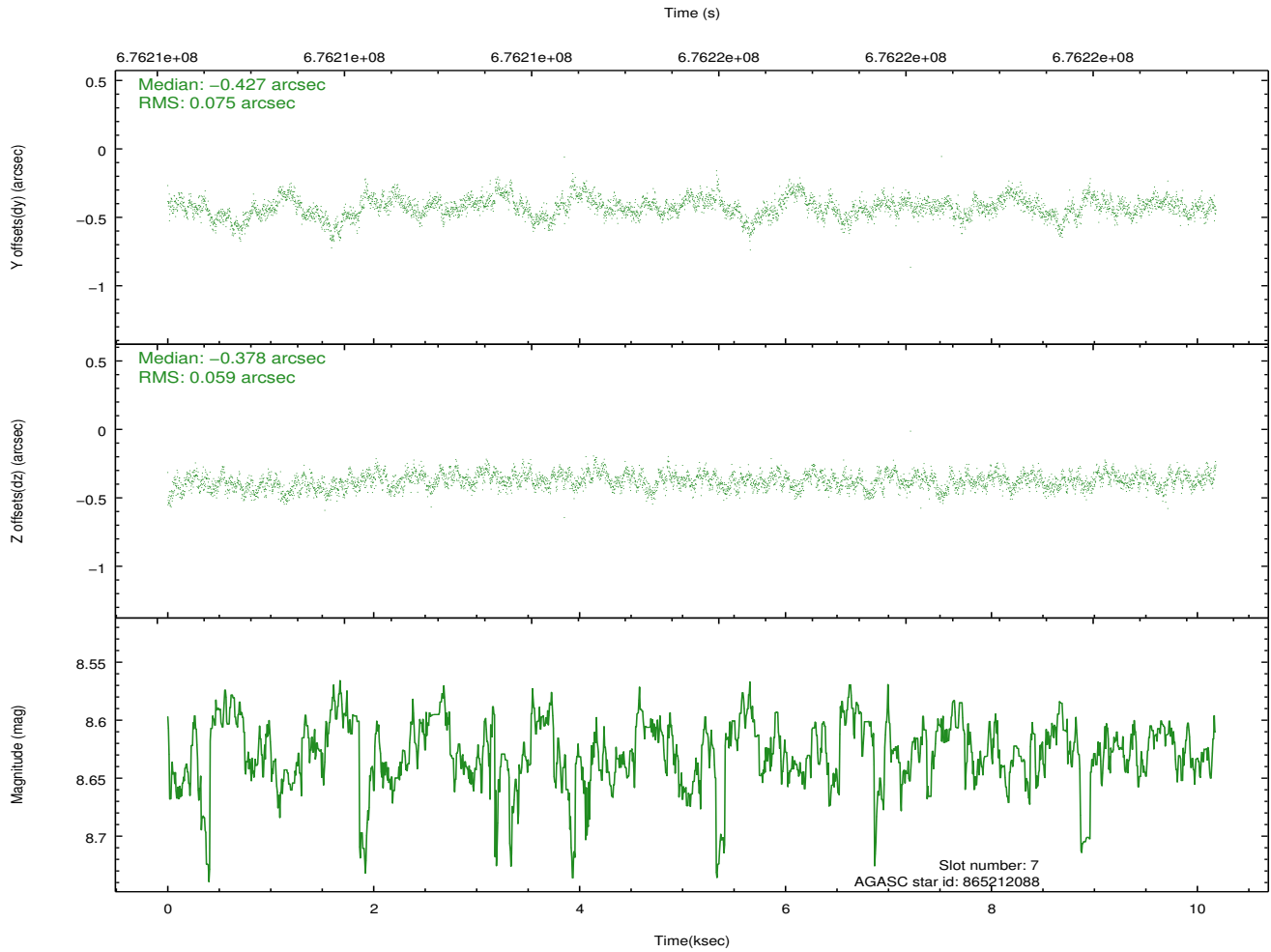
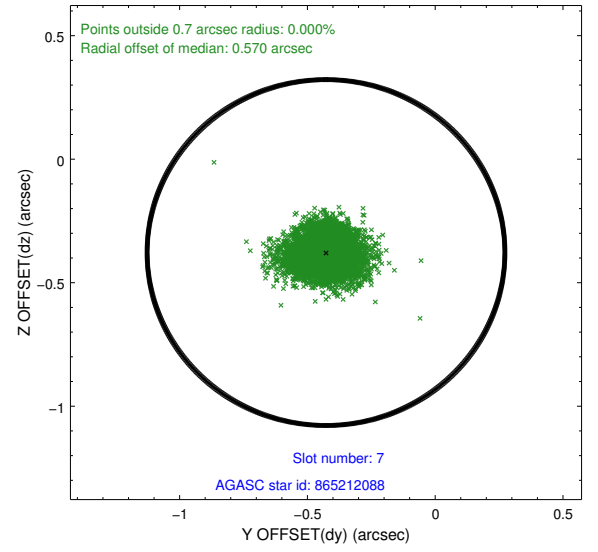
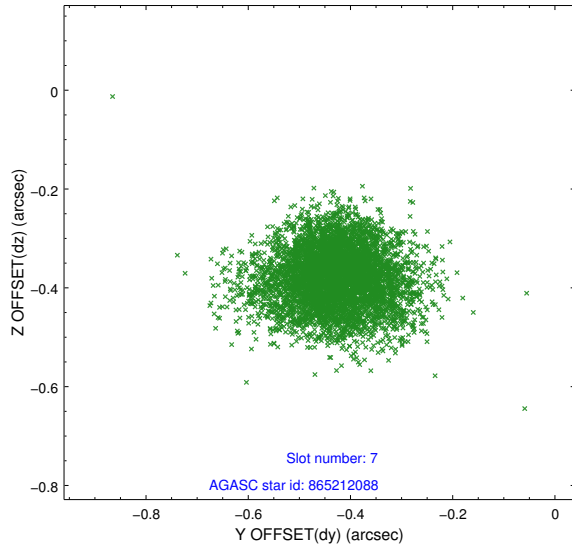
2.4.3 Slot 5



2.4.4 Slot 6

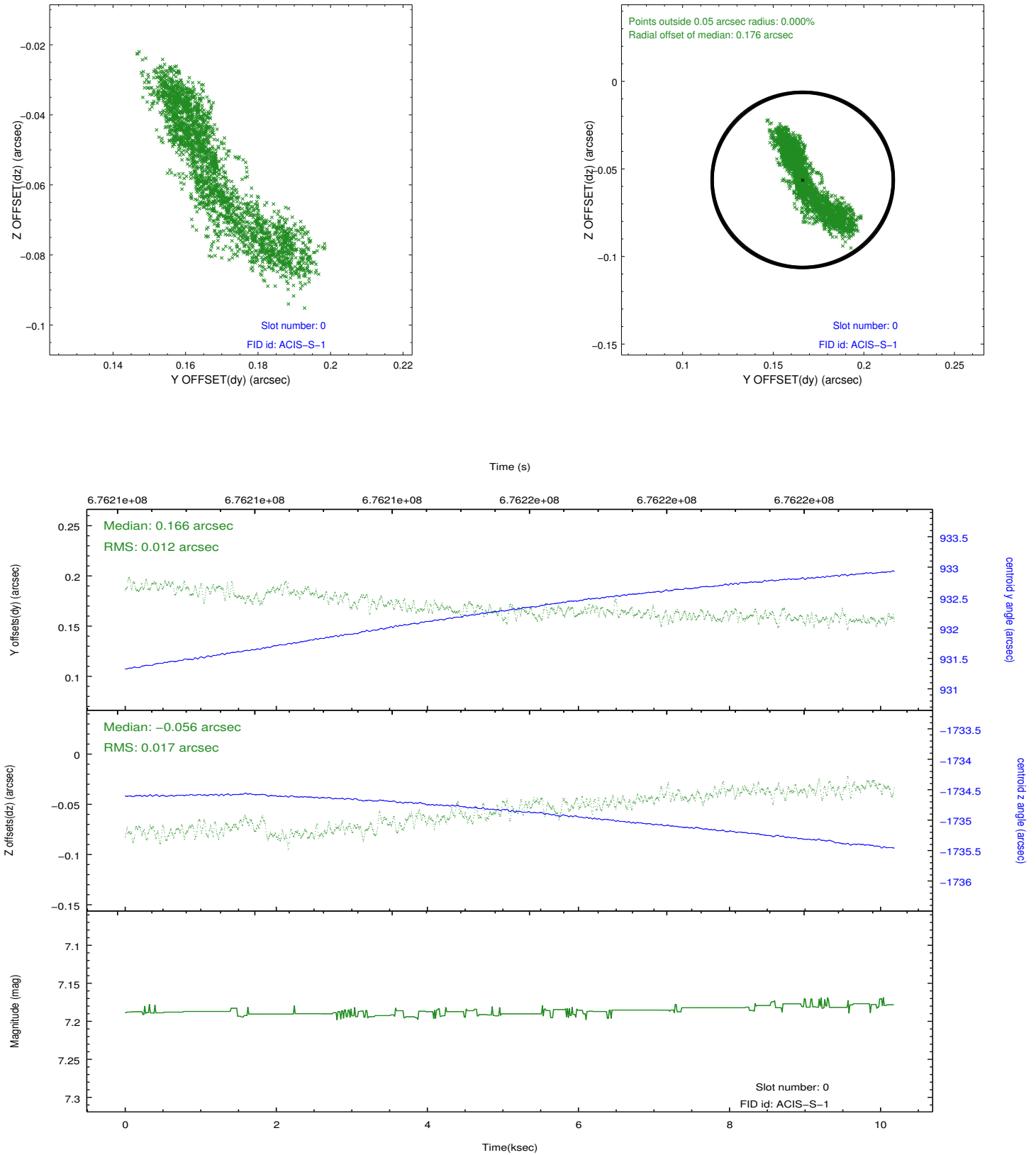


2.4.5 Slot 7

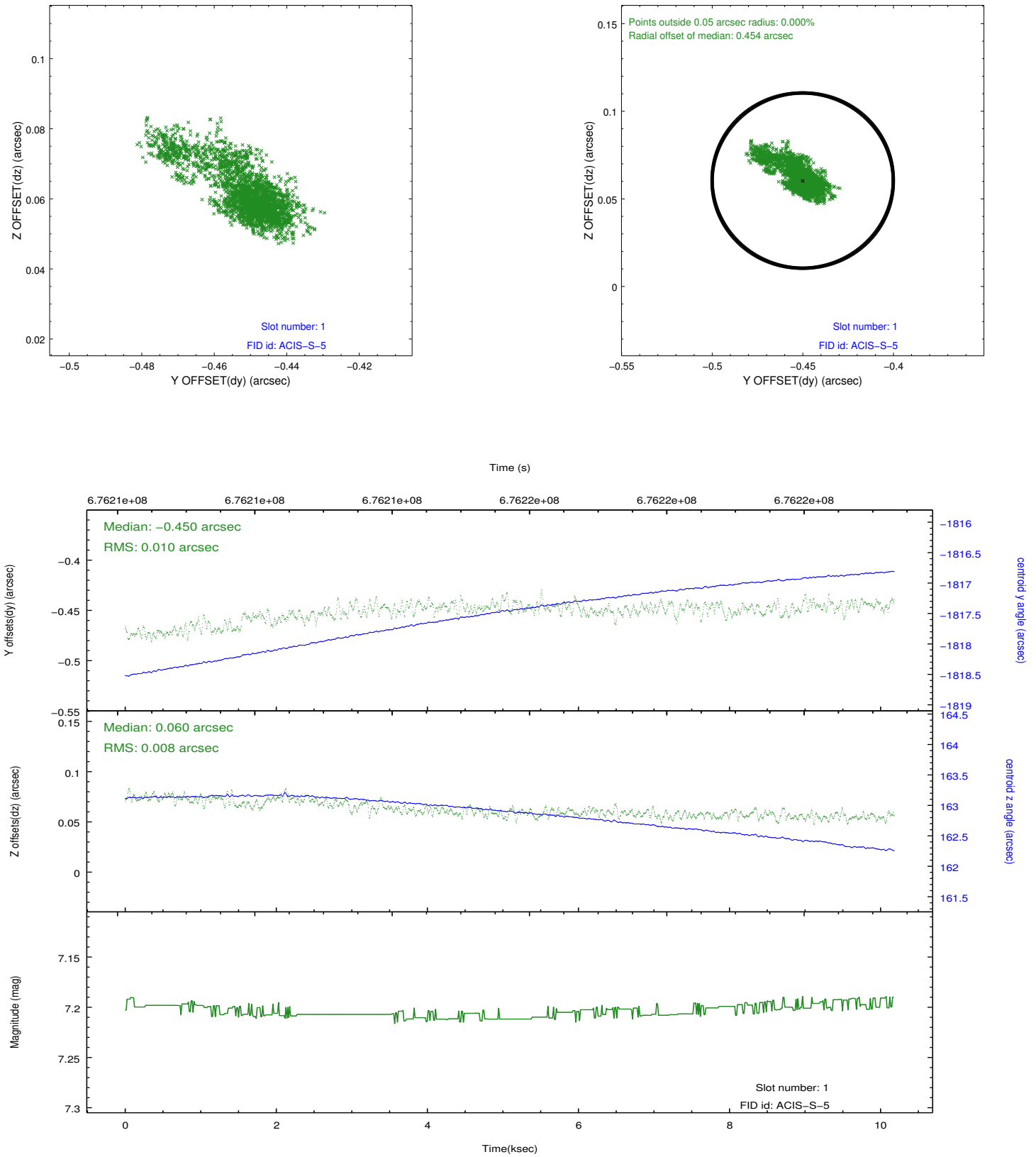


2.5 FID Slots

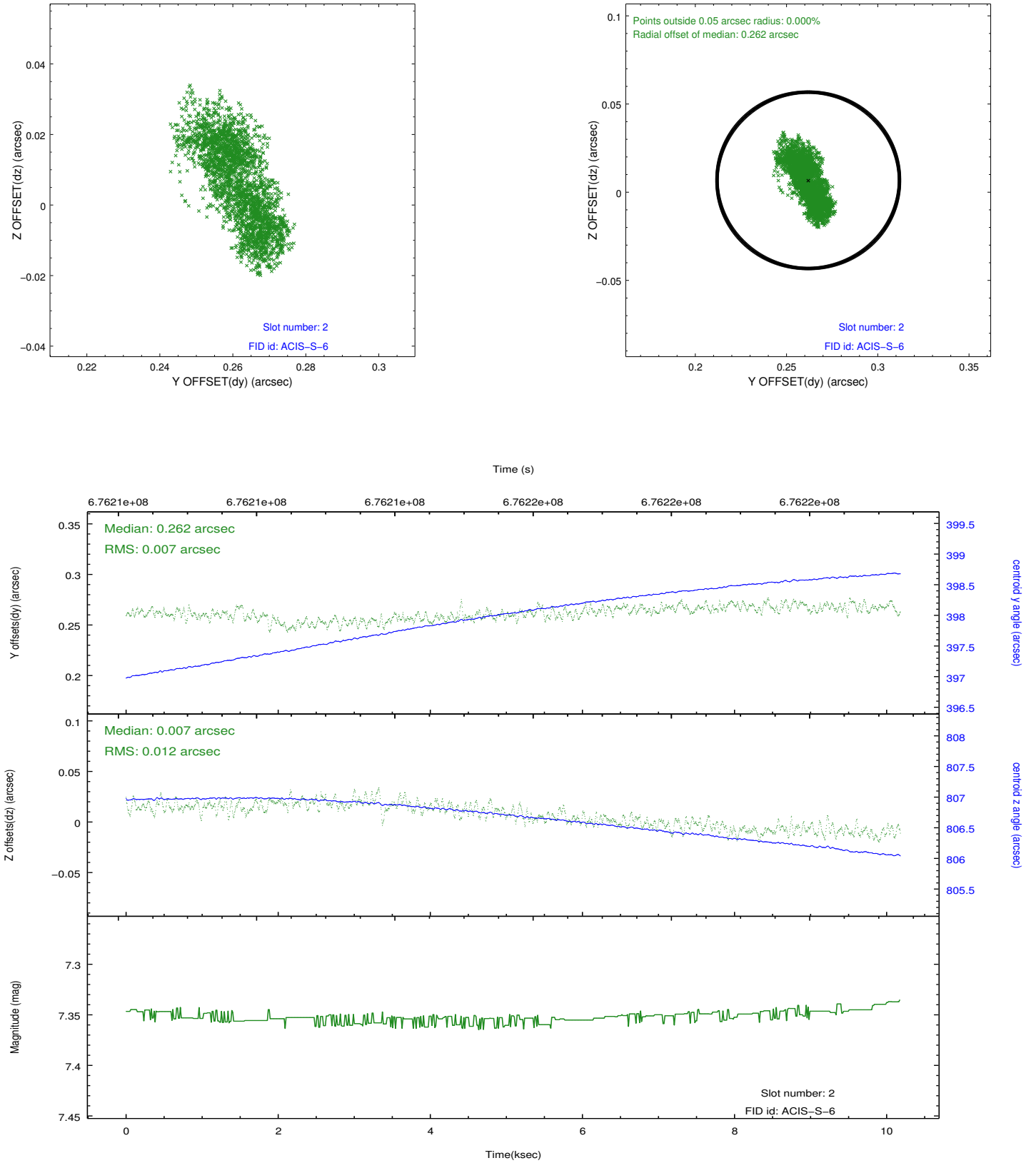
2.5.1 Slot 0



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) | 2019.06.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.090791960001 |

A.2 Comments