

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16509 - L2 Version 1
Chandra X-Ray Center

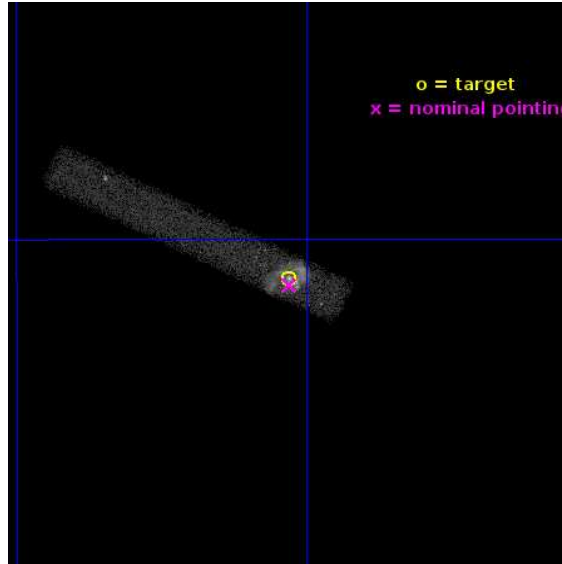
L2 Processing Date : Aug 5 2014

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1 Front

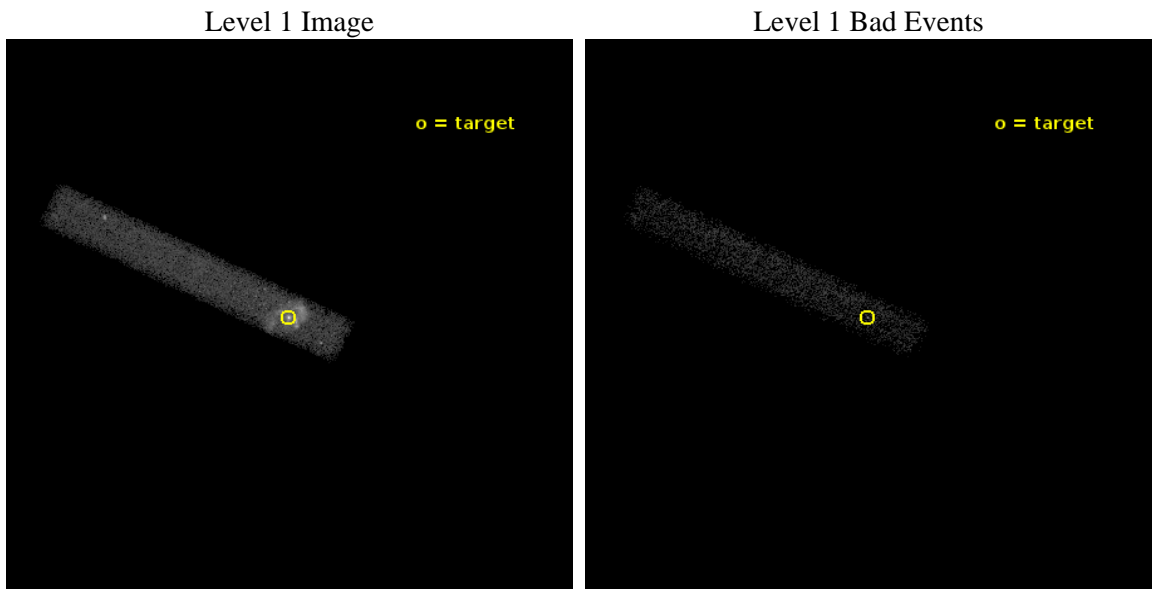
| | | |
|----------|--|---|
| seq_num | 200944 | Sequence number |
| obs_id | 16509 | Observation id |
| title | Probing the wind/radiative interactions with the circumstellar material at Periastron Passage of Eta Carinae | Proposal title |
| observer | Dr Kenji Hamaguchi | Principal investigator |
| object | Eta Carinae | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 161.265 | Observer's specified target RA [deg] |
| dec_targ | -59.6845 | Observer's specified target Dec [deg] |
| ra_nom | 161.26422268848 | Nominal RA [deg] |
| dec_nom | -59.687590615279 | Nominal Dec [deg] |
| roll_nom | 206.15595731531 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 35069.597909689 | Sum of GTIs [s] |
| livetime | 31806.274178931 | Livetime [s] |
| ontime7 | 35069.597909689 | Sum of GTIs [s] |
| l2events | 37678 | Number of level 2 events |



2 OBI

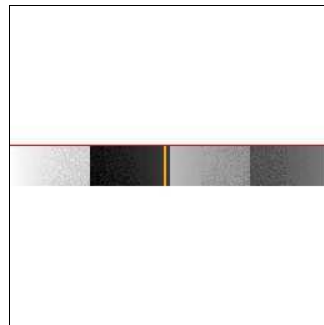
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 35000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.2.4 | Processing system revision | ontime | 35069.597909689 | Sum of GTIs [s] |
| caldbver | 4.6.2 | | ontime7 | 35069.597909689 | Sum of GTIs [s] |
| date | 2014-08-05T04:16:32 | Date and time of file creation | l1events | 54739 | Number of level 1 events |
| revision | 1 | Processing version of data | | | |

2.1.4 Events

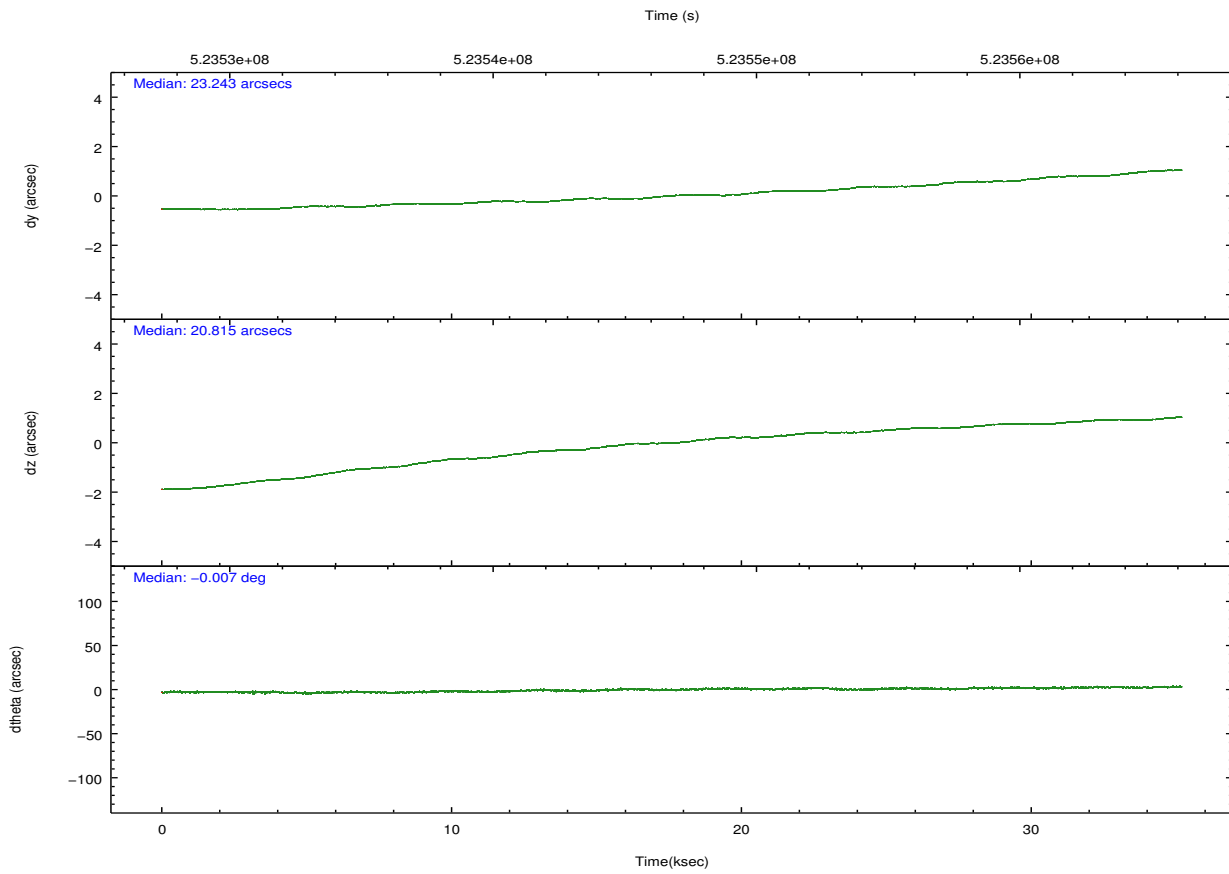
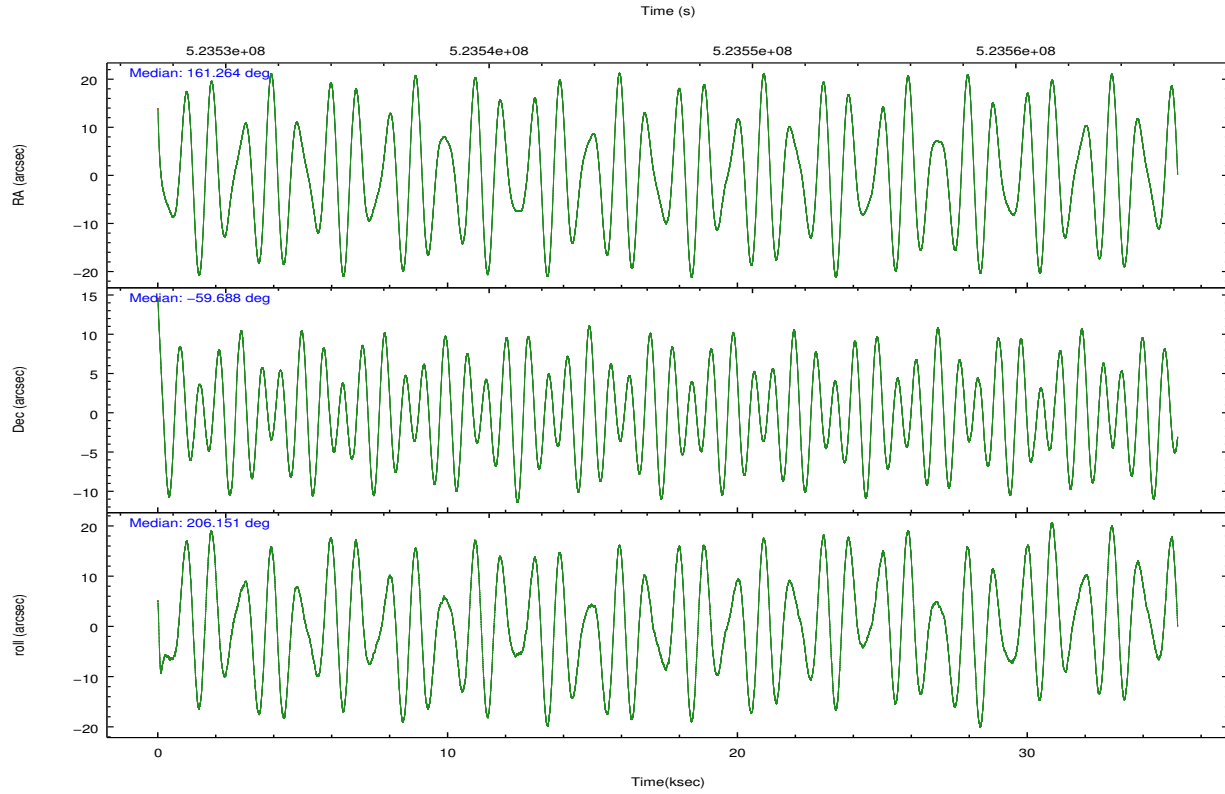
| | ccd 7 |
|-----------------|--------------|
| level 1 events | 54739 |
| rejected events | 16324 |
| rejected % | 29% |

| | ccd 7 |
|----------------|--------------|
| grade 0 events | 7976 |
| | 14% |
| grade 1 events | 65 |
| | 0% |
| grade 2 events | 9113 |
| | 16% |
| grade 3 events | 4749 |
| | 8% |
| grade 4 events | 4621 |
| | 8% |
| grade 5 events | 3442 |
| | 6% |
| grade 6 events | 11958 |
| | 21% |
| grade 7 events | 12815 |
| | 23% |

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 | 161.293871 | 161.2642226884755 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -59.664590 | -59.68759061527942 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 206.024920 | 206.155957315309 | Subarray row count | 128 | 128 |
| [s] Window start time (MET) | 523324867.184000 | 523324867.184000 | Alternating exposures requested | N | N |
| [s] Window stop time (MET) | 523929667.184000 | 523929667.184000 | [s] Primary exposure time | 0.000000 | 0.4 |
| [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) | 523529375.184000 | 523528290.60815 | | | |
| Observation start date | 2014-08-04T08:48:28 | 2014-08-04T08:31:30 | | | |
| [s] Observation end time (MET) | 523564375.184000 | 523565229.5602 | | | |
| Observation end date | 2014-08-04T18:31:48 | 2014-08-04T18:47:09 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect

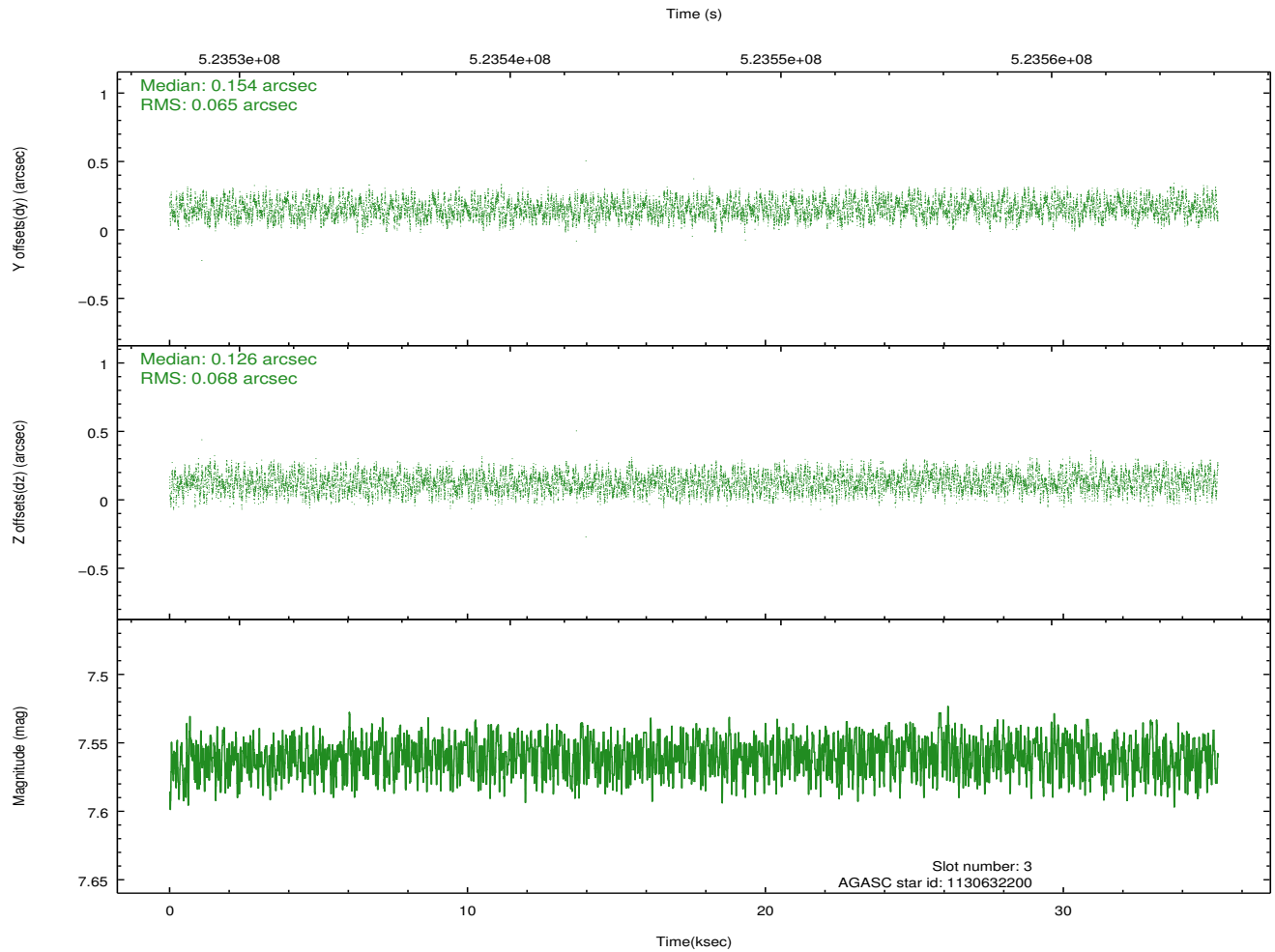
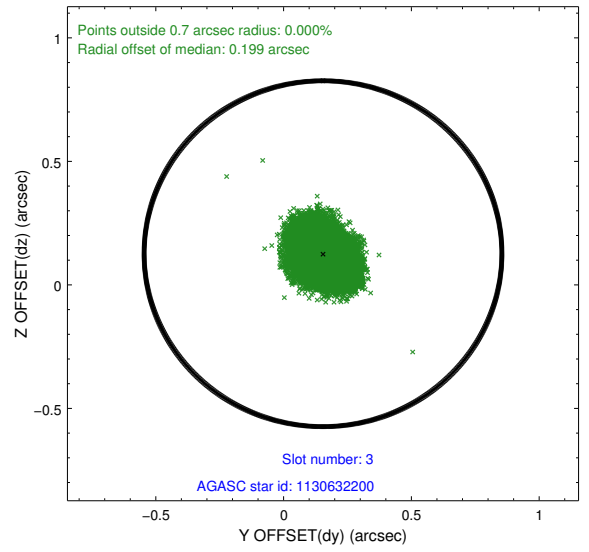
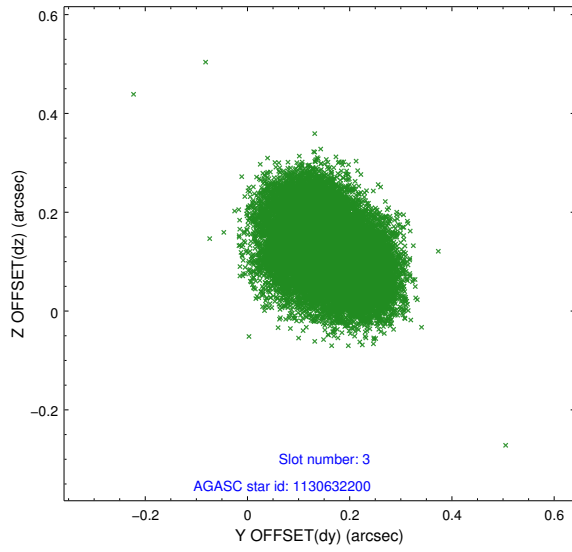


Slot Statistics

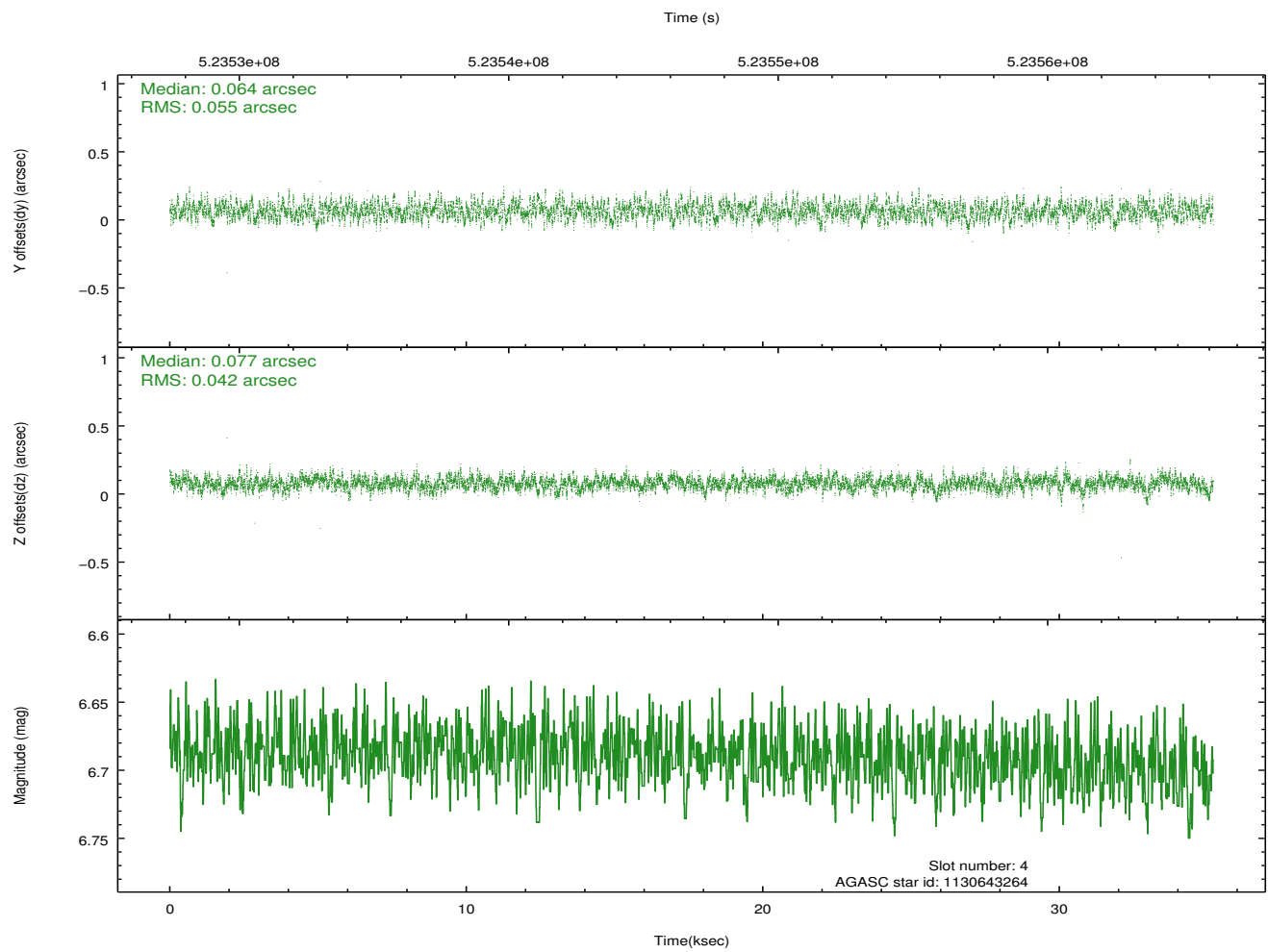
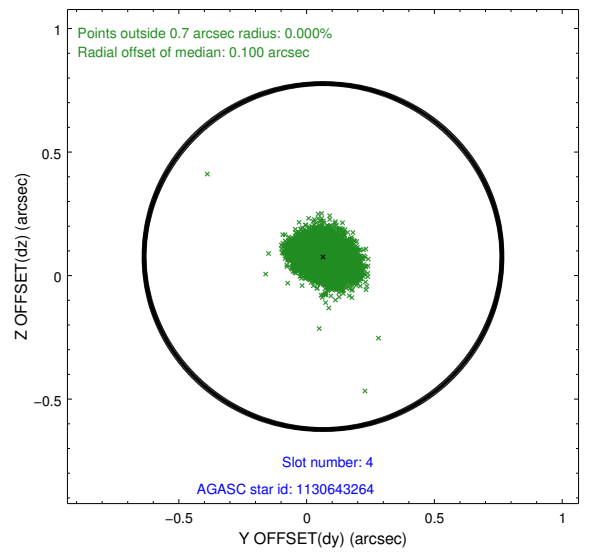
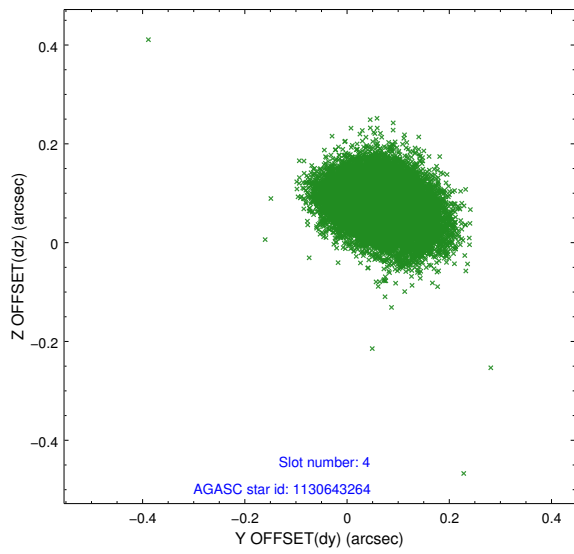
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.06 | 8583 | 0.199 | -0.074 | 0.017 | 0.038 | 0.000000 | 0.000000 | 919.77 | -1737.80 |
| 1 | FID | ACIS-S-2 | 6.99 | 8583 | -0.117 | 0.024 | 0.017 | 0.057 | 0.000000 | 0.000000 | -776.43 | -1742.35 |
| 2 | FID | ACIS-S-5 | 7.09 | 8582 | -0.106 | 0.059 | 0.015 | 0.028 | 0.000000 | 0.000000 | -1829.75 | 159.77 |
| 3 | GUIDE | 1130632200 | 7.56 | 17162 | 0.154 | 0.126 | 0.104 | 0.152 | 161.433843 | -59.407820 | -635.38 | -717.69 |
| 4 | GUIDE | 1130643264 | 6.69 | 17164 | 0.064 | 0.077 | 0.074 | 0.120 | 160.322990 | -59.676912 | 1611.18 | -722.48 |
| 5 | GUIDE | 1174012960 | 7.12 | 17165 | -0.178 | -0.377 | 0.071 | 0.111 | 160.855674 | -60.332270 | 1757.53 | 1819.55 |
| 6 | GUIDE | 1130632064 | 8.50 | 17157 | -0.025 | 0.226 | 0.093 | 0.149 | 160.452382 | -59.130948 | 558.70 | -2398.94 |
| 7 | GUIDE | 1130640672 | 8.25 | 17153 | -0.019 | -0.053 | 0.102 | 0.155 | 162.096044 | -59.540805 | -1506.78 | 249.60 |

2.4 Star Slots

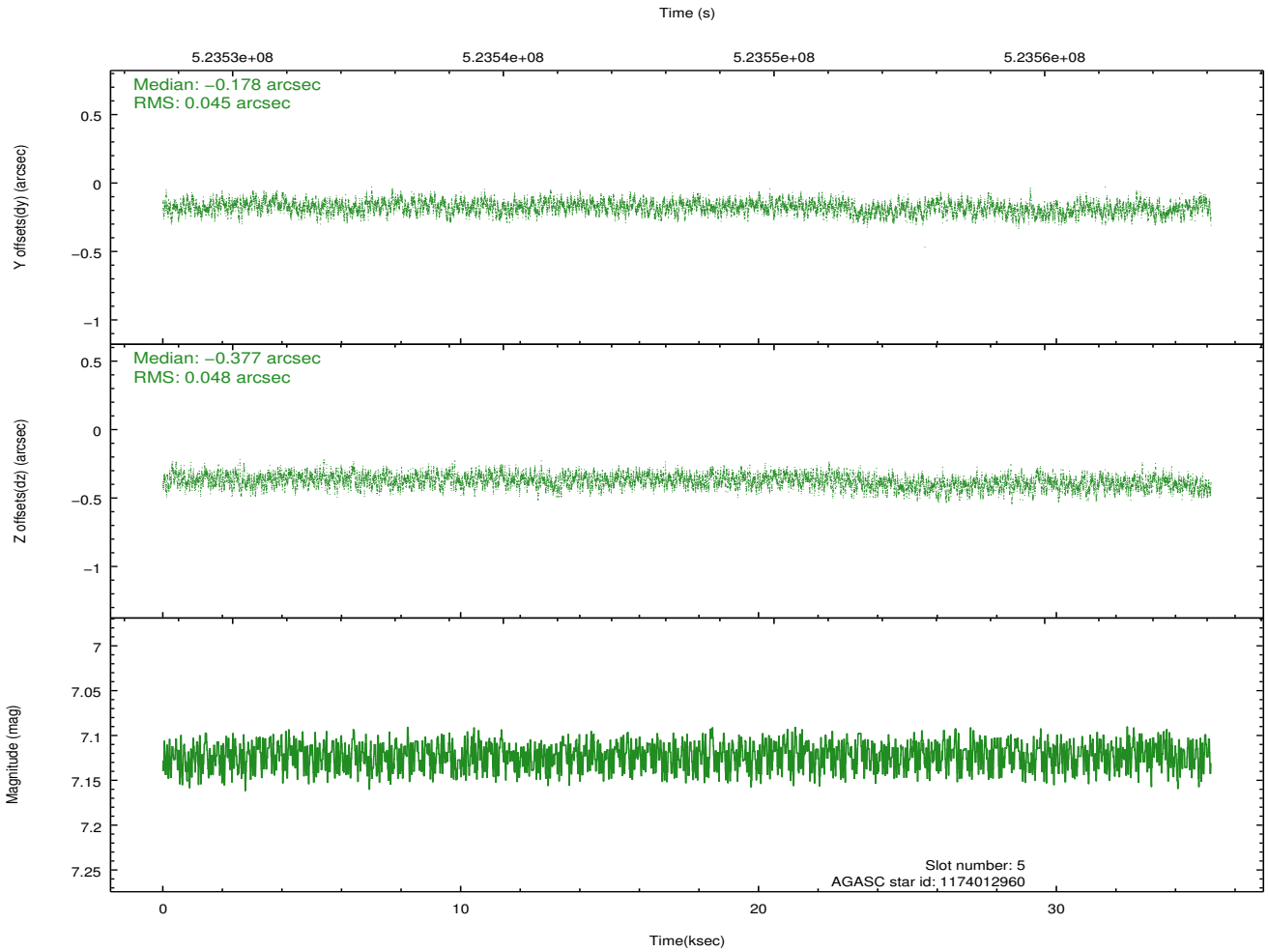
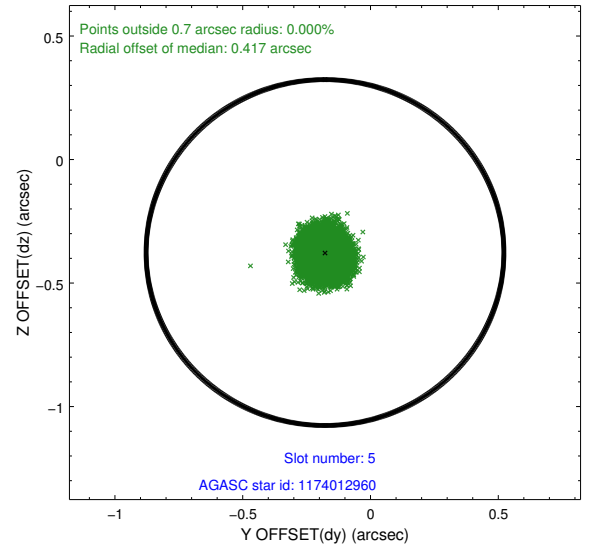
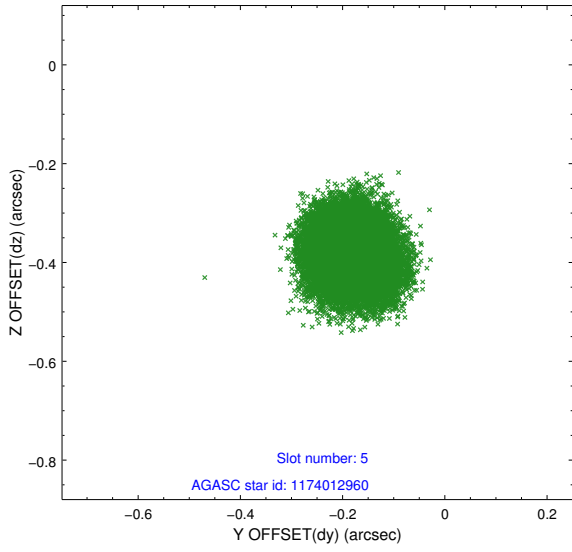
2.4.1 Slot 3



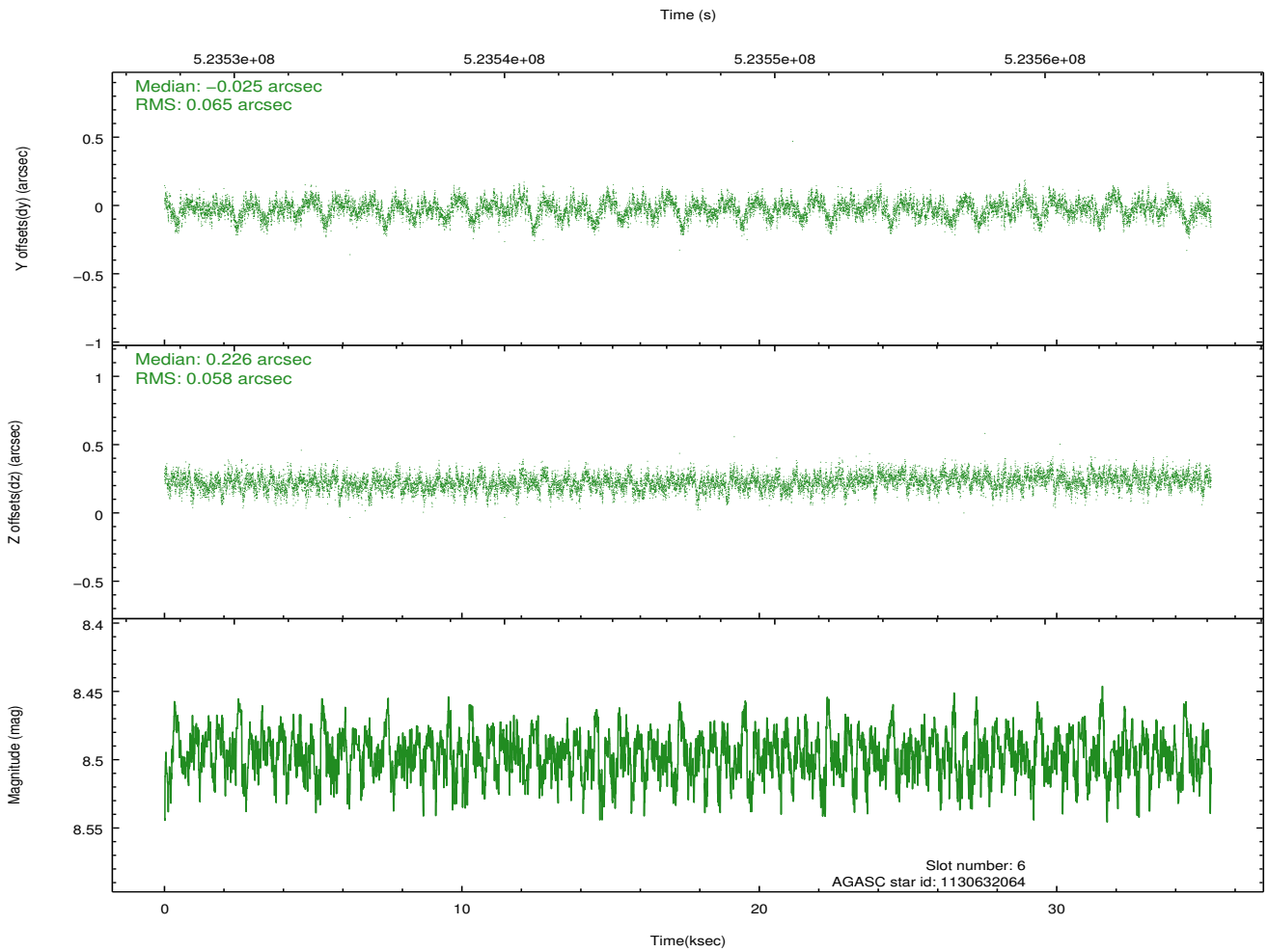
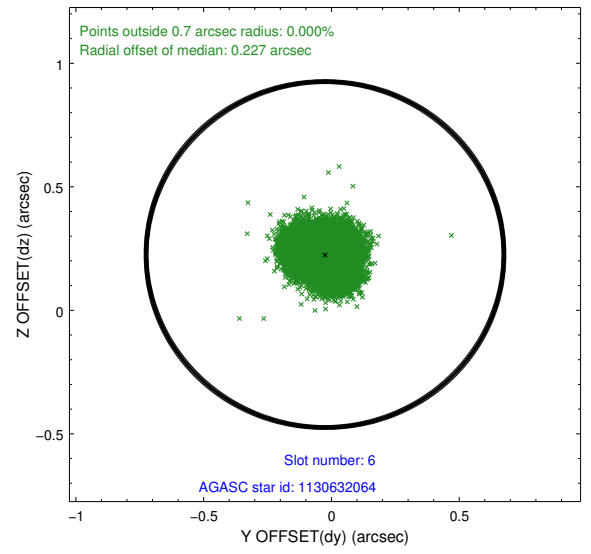
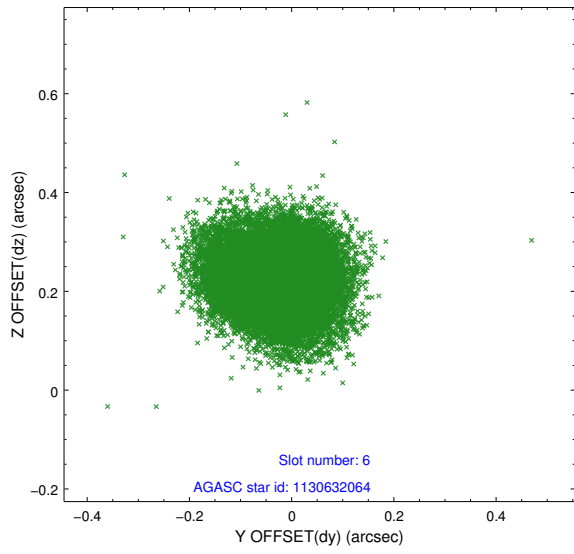
2.4.2 Slot 4



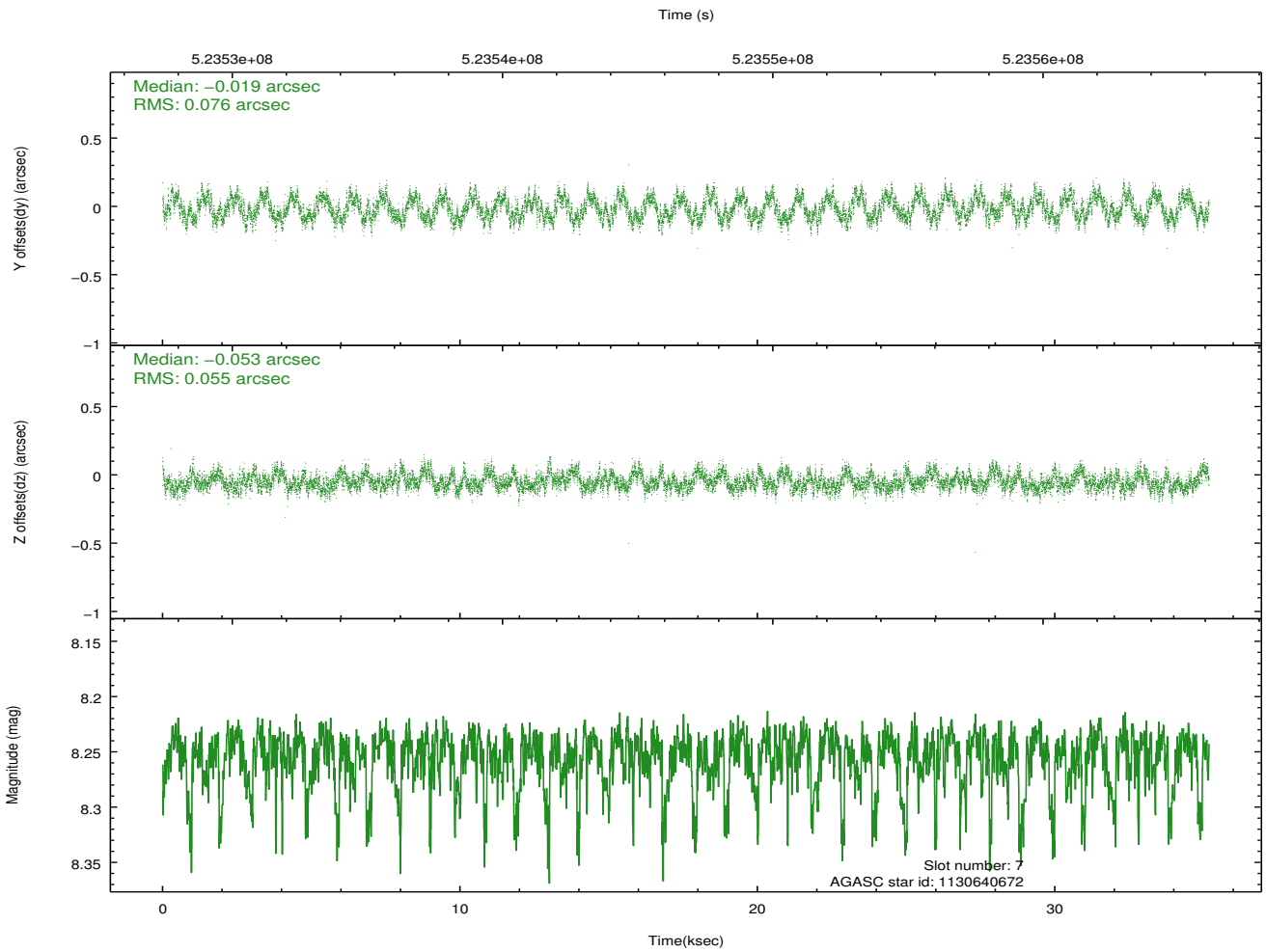
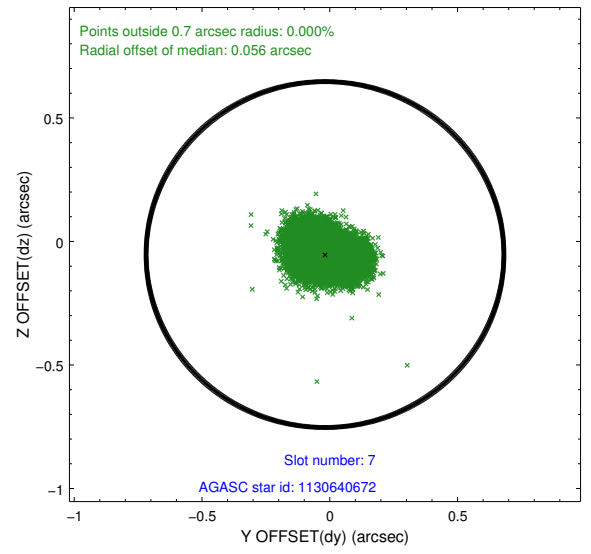
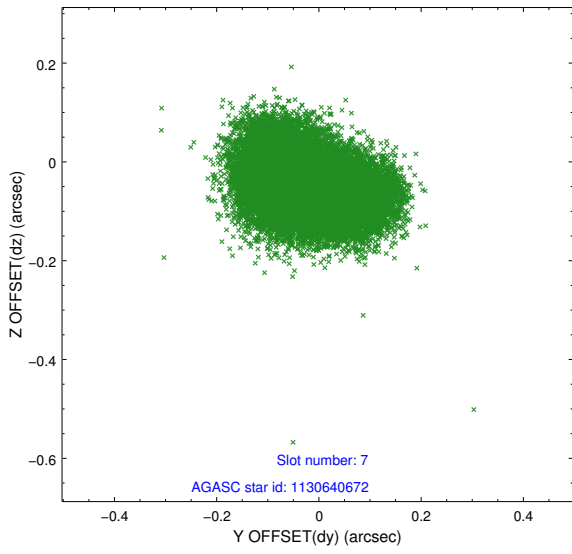
2.4.3 Slot 5



2.4.4 Slot 6

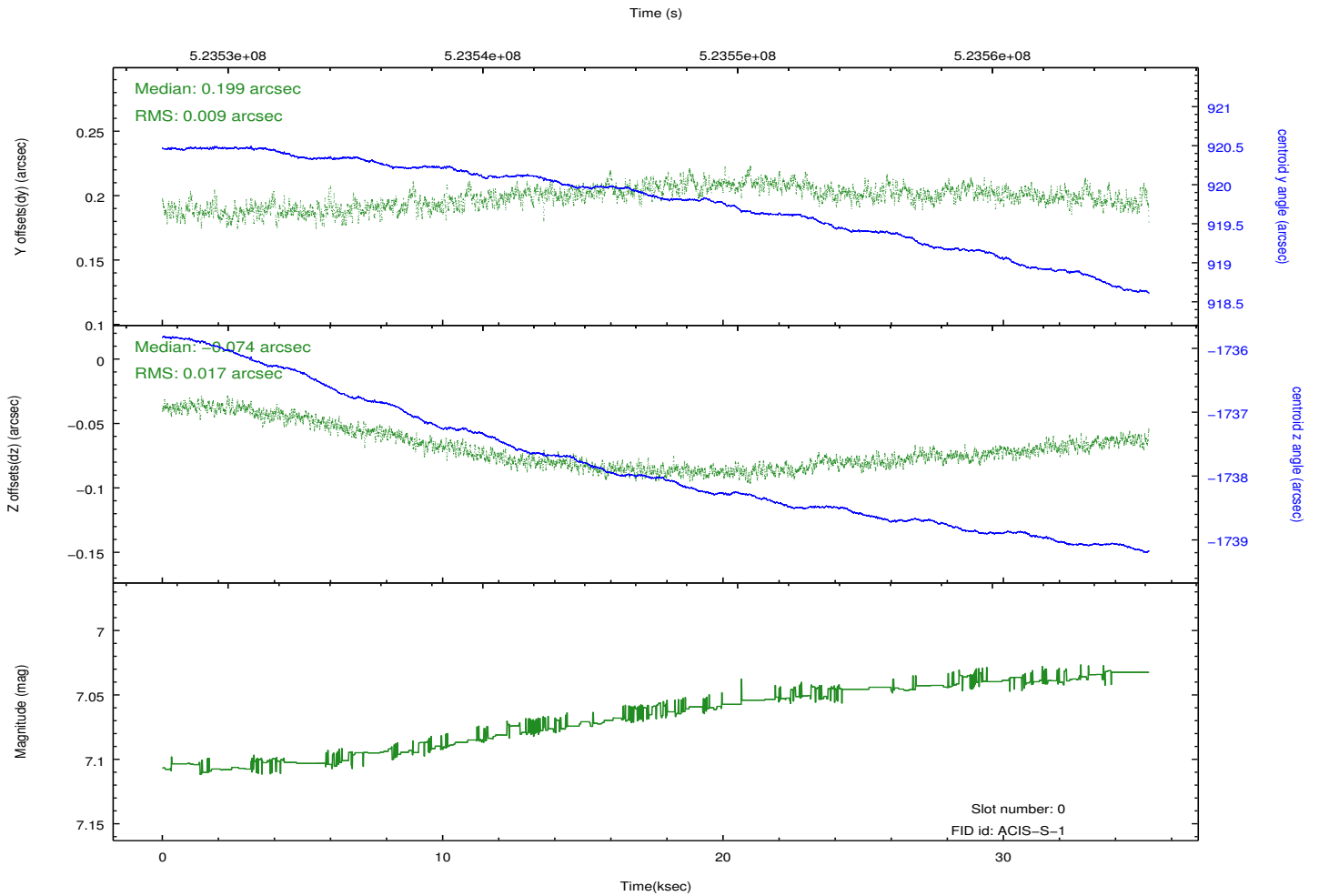
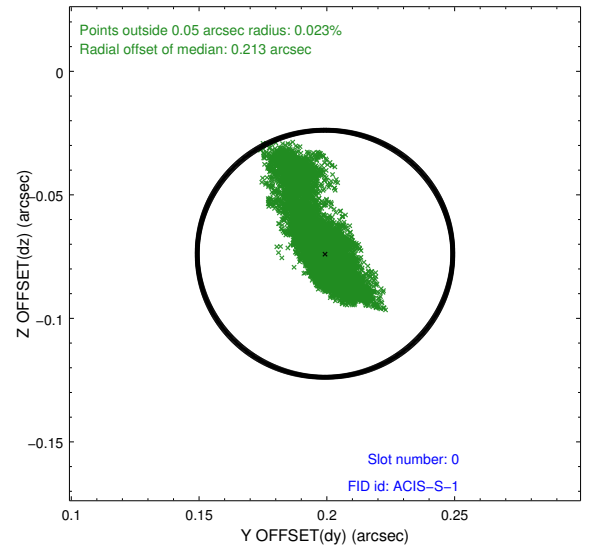
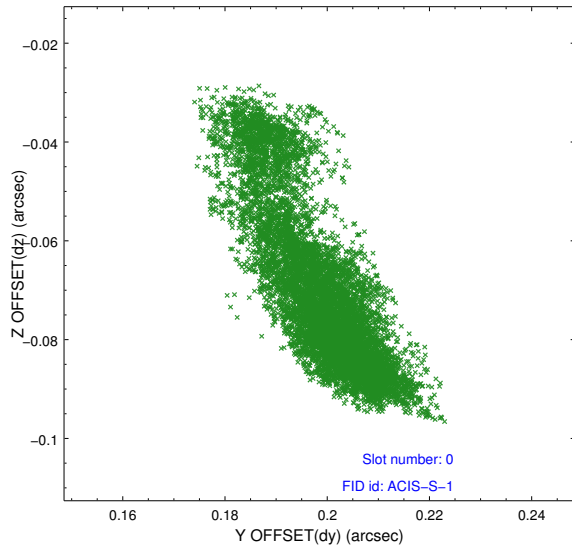


2.4.5 Slot 7

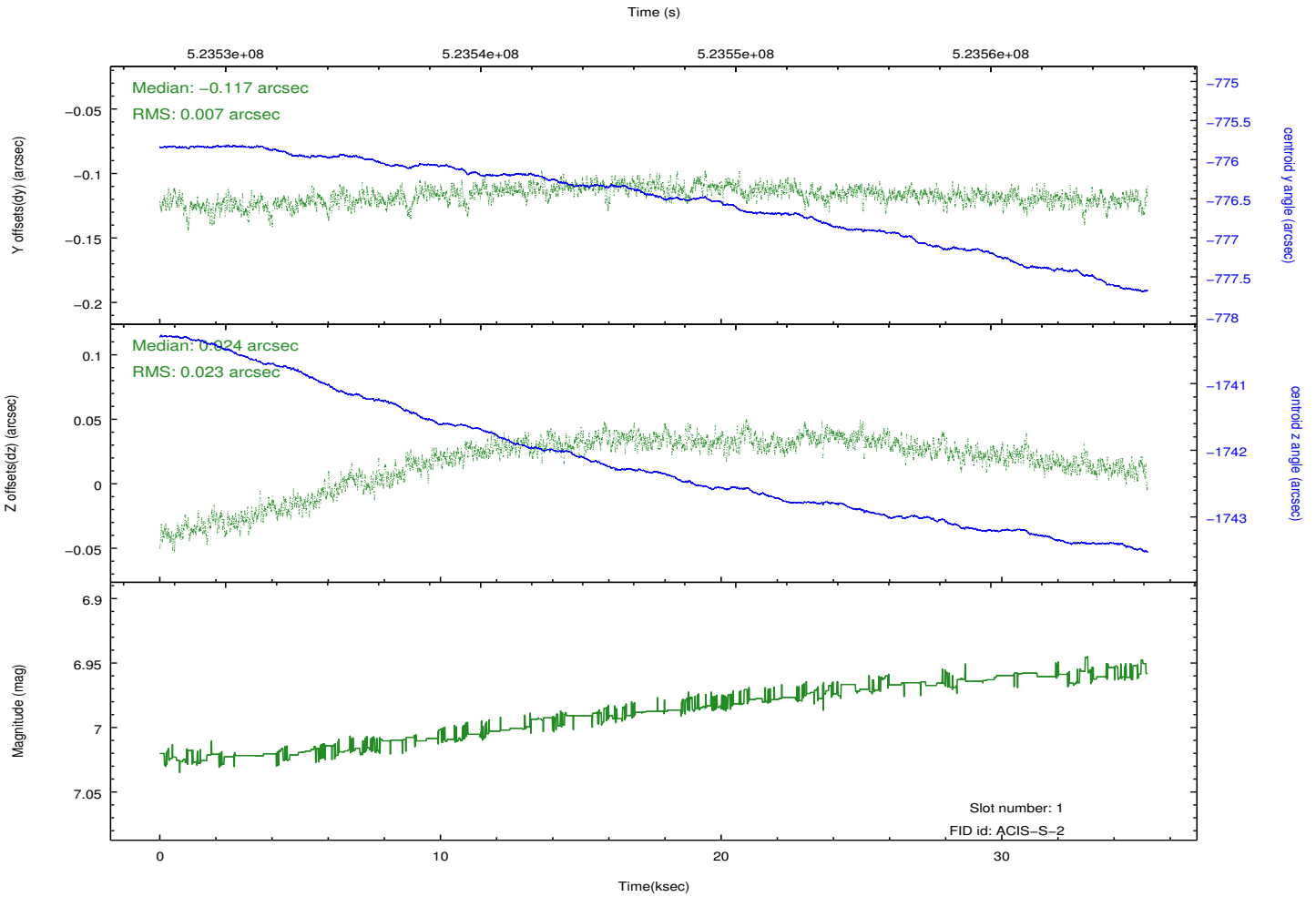
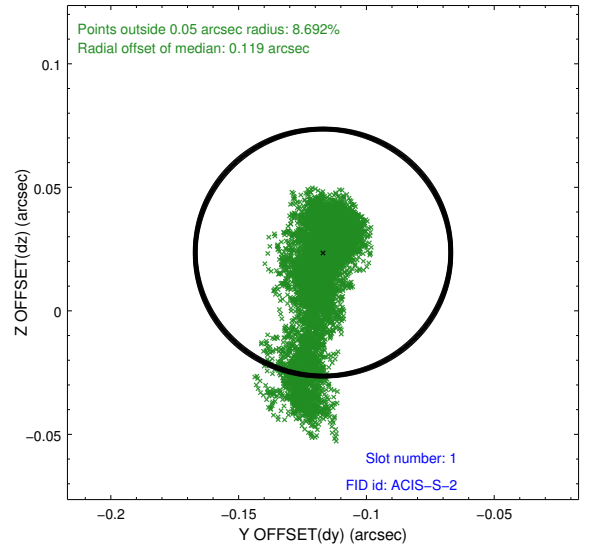
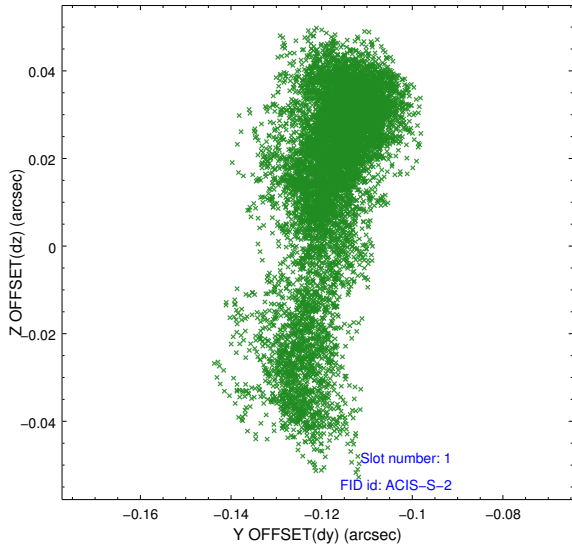


2.5 FID Slots

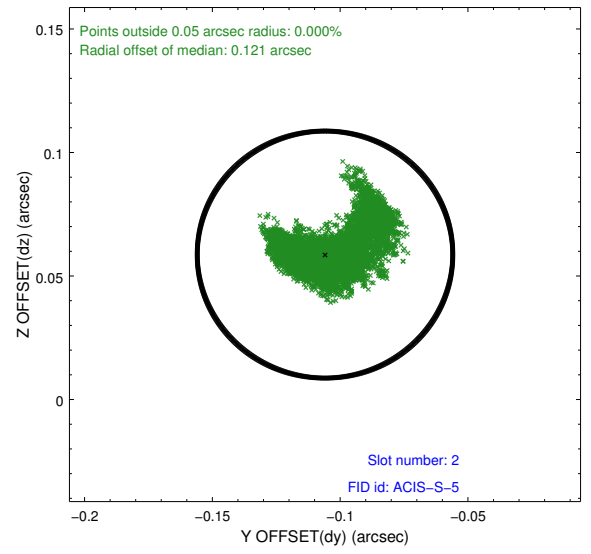
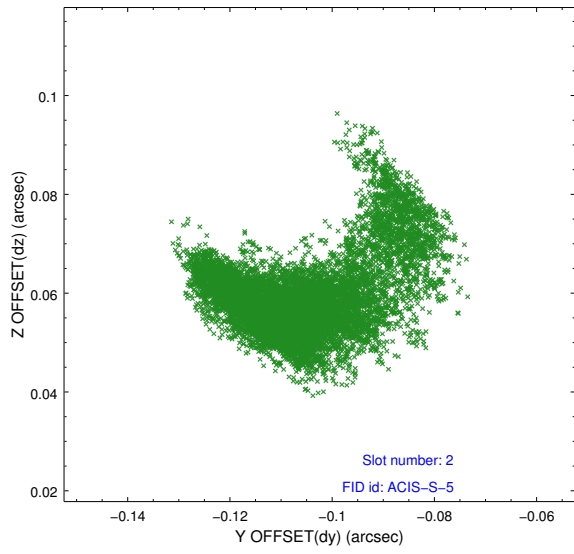
2.5.1 Slot 0



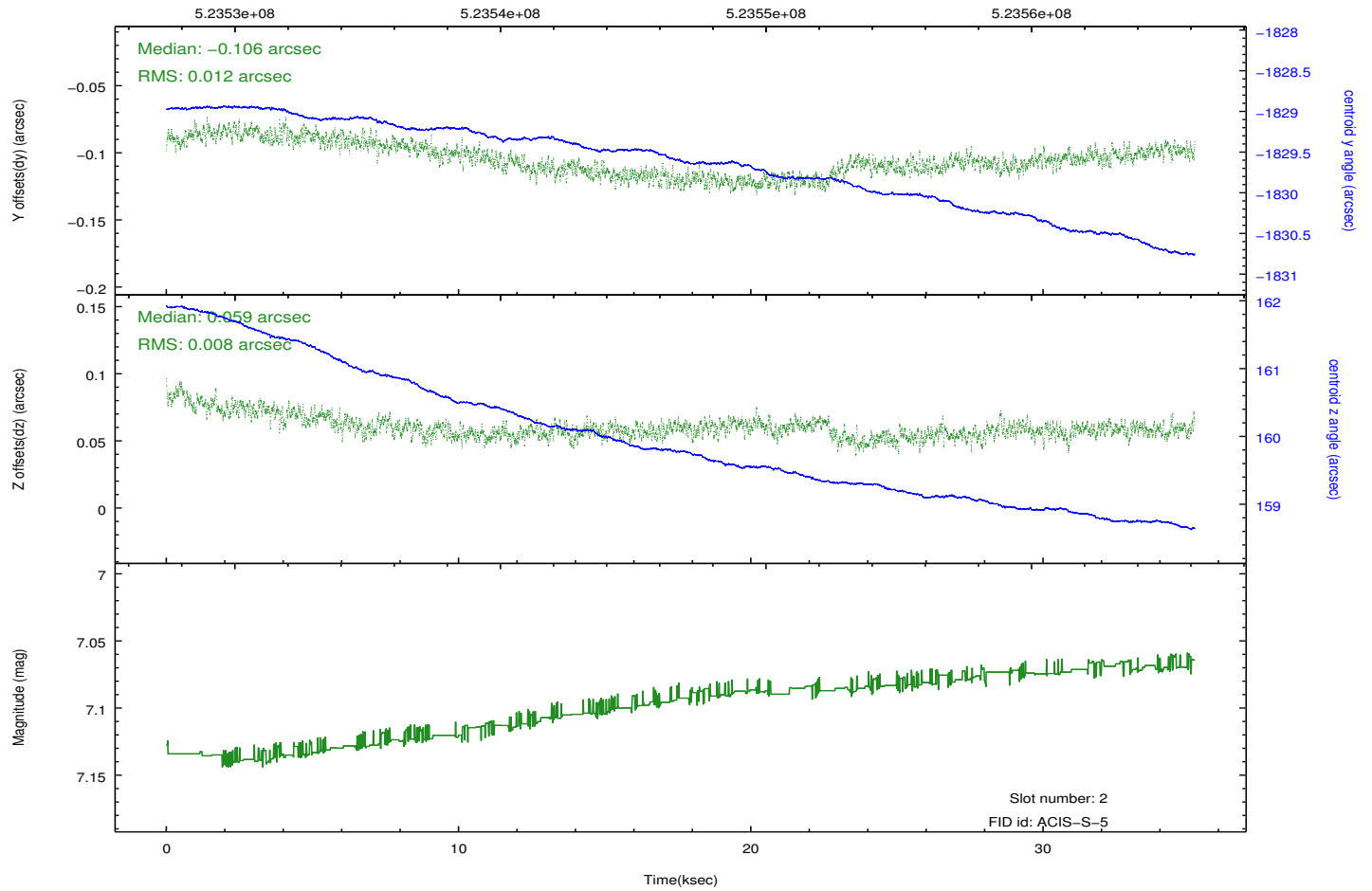
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2014.08.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 35.069597909689 |

A.2 Comments

Time constraint met.