

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4802 - L2 Version 3
Chandra X-Ray Center

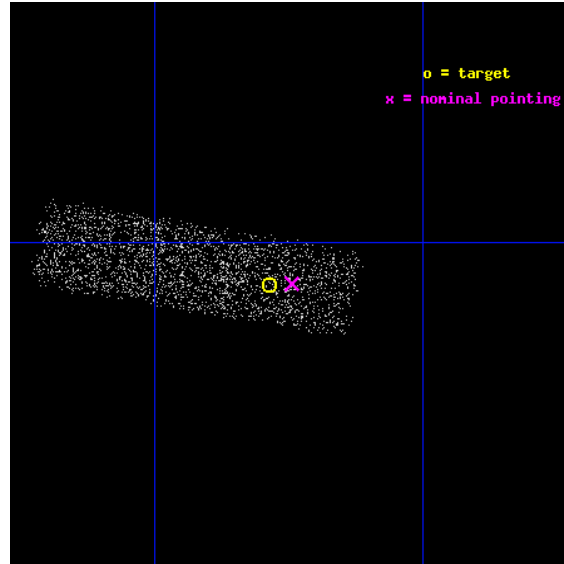
L2 Processing Date : Nov 7 2012

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1 Front

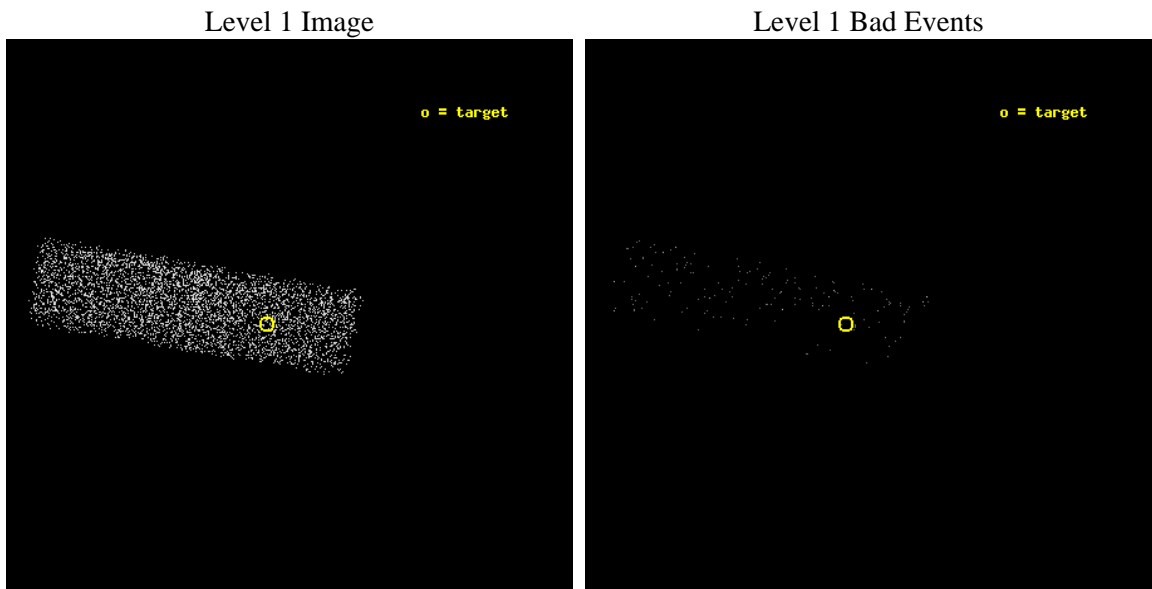
| | | |
|----------|---|---|
| seq_num | 700885 | Sequence number |
| obs_id | 4802 | Observation id |
| title | Unveiling the engine powering OH Gigamaser sources through X-rays. A well-defined Chandra survey | Proposal title |
| observer | Dr Cristian Vignali | Principal investigator |
| object | IRAS FSC 02524+2046 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 43.82125 | Observer's specified target RA [deg] |
| dec_targ | 20.982306 | Observer's specified target Dec [deg] |
| ra_nom | 43.81104196147 | Nominal RA [deg] |
| dec_nom | 20.982376147919 | Nominal Dec [deg] |
| roll_nom | 189.56029952607 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 4530.4000675082 | Sum of GTIs [s] |
| livetime | 4309.3313683137 | Livetime [s] |
| ontime7 | 4530.4000675082 | Sum of GTIs [s] |
| l2events | 2758 | Number of level 2 events |



2 OBI

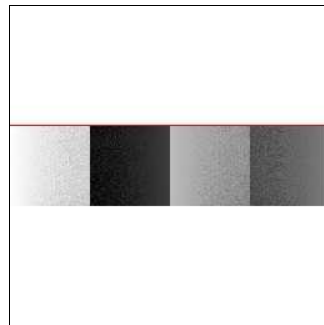
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 4350.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 4530.4000675082 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime7 | 4530.4000675082 | Sum of GTIs [s] |
| date | 2012-11-07T12:45:57 | Date and time of file creation | l1events | 6049 | Number of level 1 events |
| revision | 3 | Processing version of data | | | |

2.1.4 Events

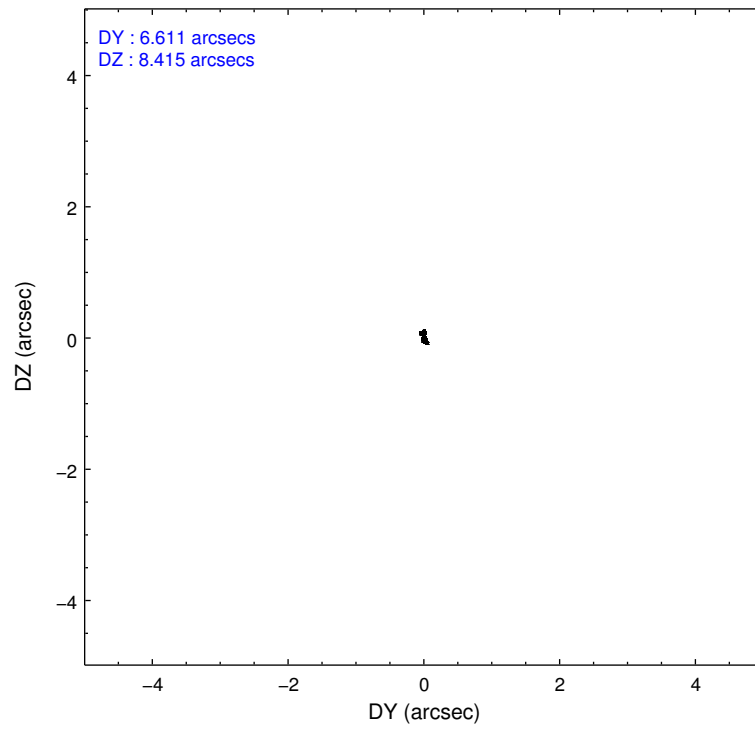
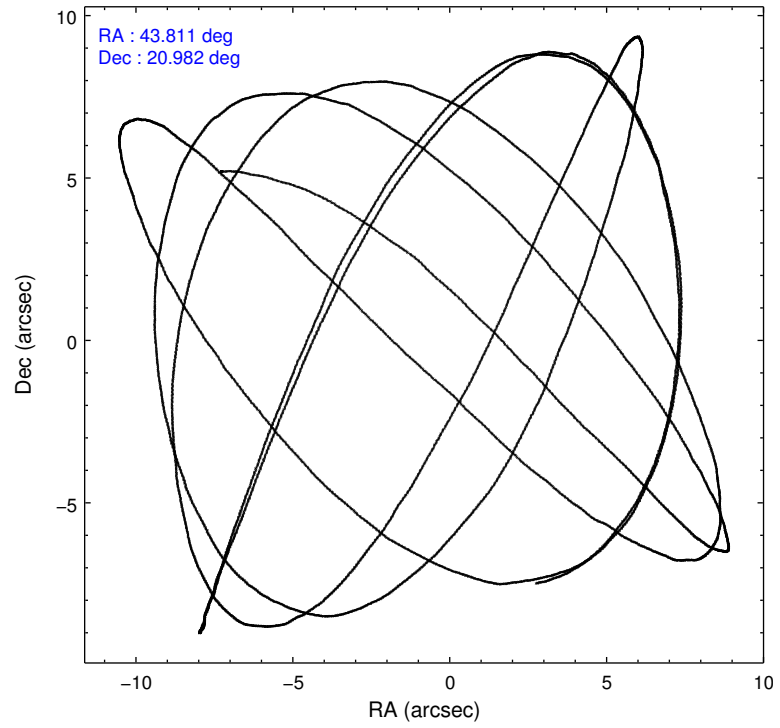
| | ccd 7 |
|-----------------|--------------|
| level 1 events | 6049 |
| rejected events | 3181 |
| rejected % | 52% |

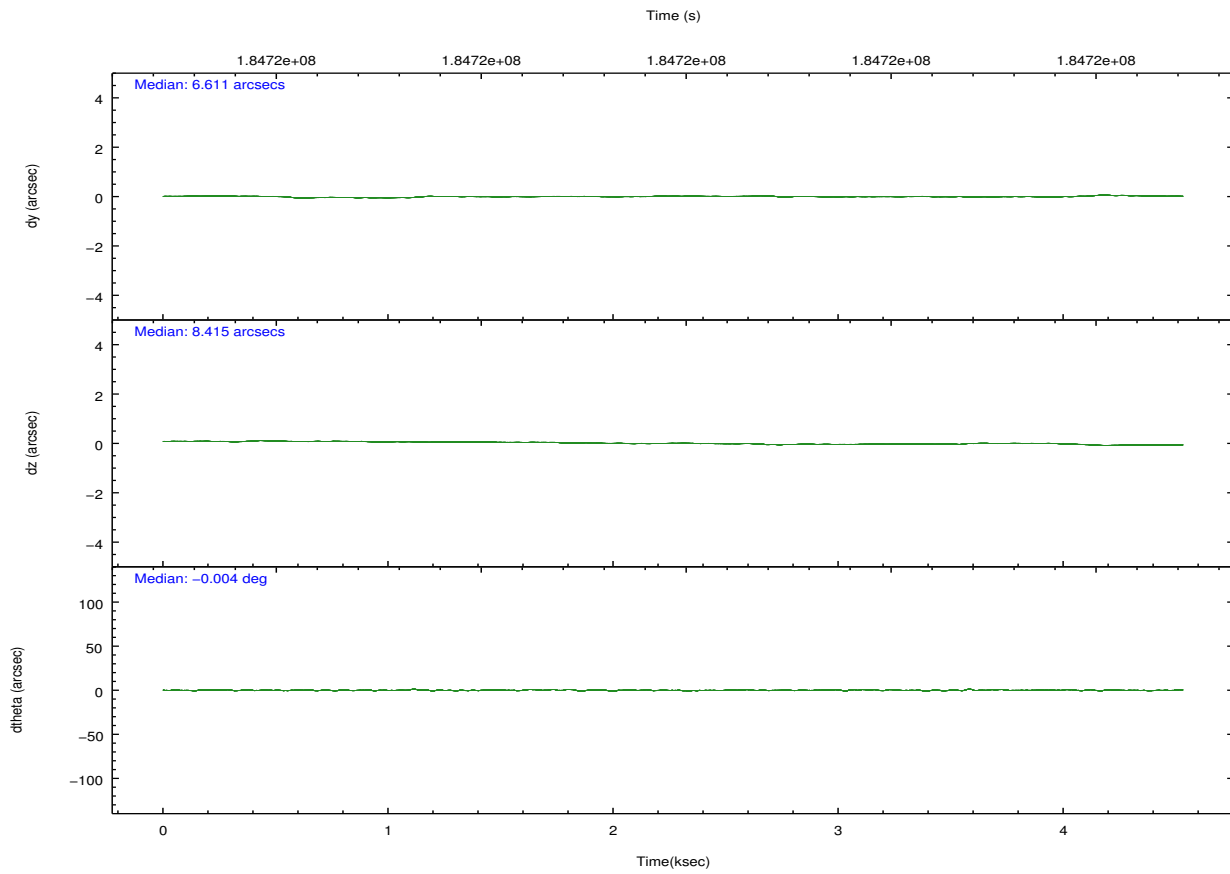
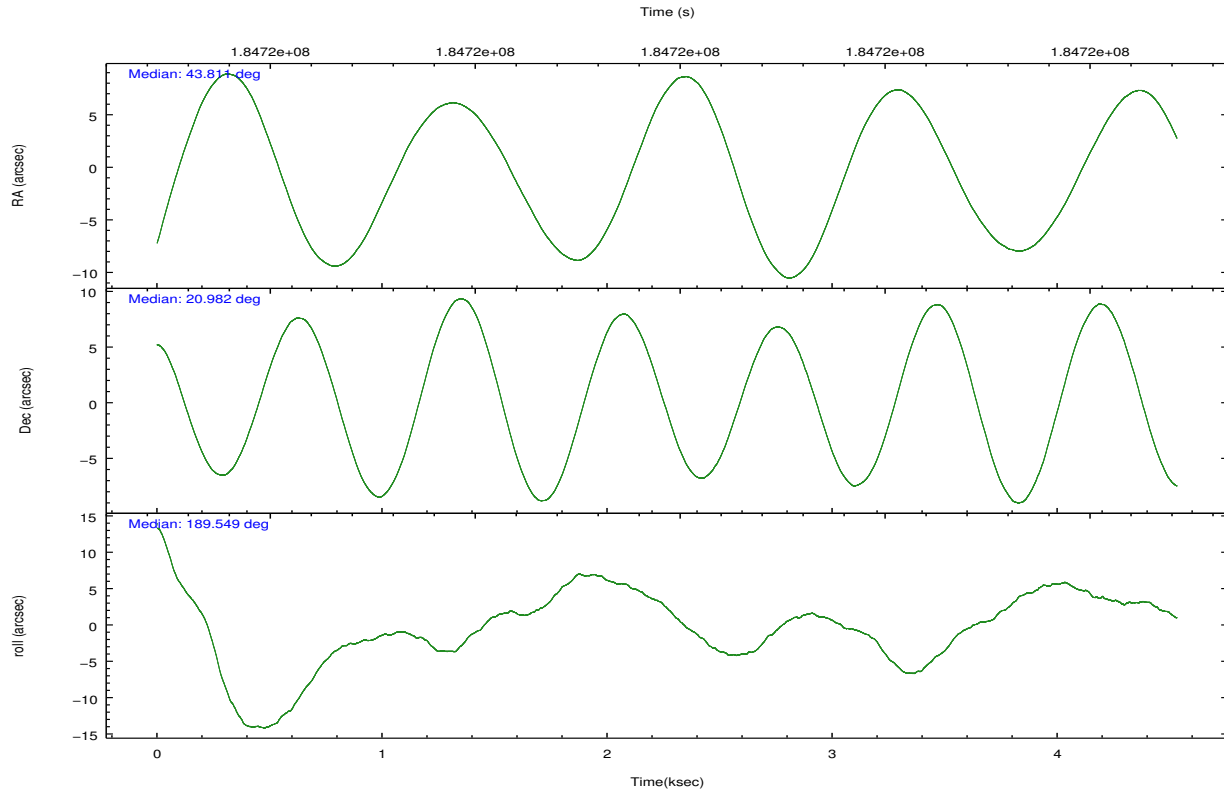
| | ccd 7 |
|----------------|--------------|
| grade 0 events | 362 |
| | 5% |
| grade 1 events | 5 |
| | 0% |
| grade 2 events | 674 |
| | 11% |
| grade 3 events | 420 |
| | 6% |
| grade 4 events | 418 |
| | 6% |
| grade 5 events | 611 |
| | 10% |
| grade 6 events | 1513 |
| | 25% |
| grade 7 events | 2046 |
| | 33% |

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 | 43.833130 | 43.81104196146951 | Subarray requested | CUSTOM | 1/4 |
| [deg] Pointing Dec | 21.000015 | 20.98237614791867 | Subarray start row | 385 | 385 |
| [deg] Pointing Roll | 189.395739 | 189.5602995260659 | Subarray row count | 256 | 256 |
| [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 | 0.8 |
| [mm] SIM translation stage pos | -190.132523 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 184716854.184000 | 184715794.56142 | | | |
| Observation start date | 2003-11-08T22:13:10 | 2003-11-08T21:56:34 | | | |
| [s] Observation end time (MET) | 184721204.184000 | 184721847.69919 | | | |
| Observation end date | 2003-11-08T23:25:40 | 2003-11-08T23:37:27 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



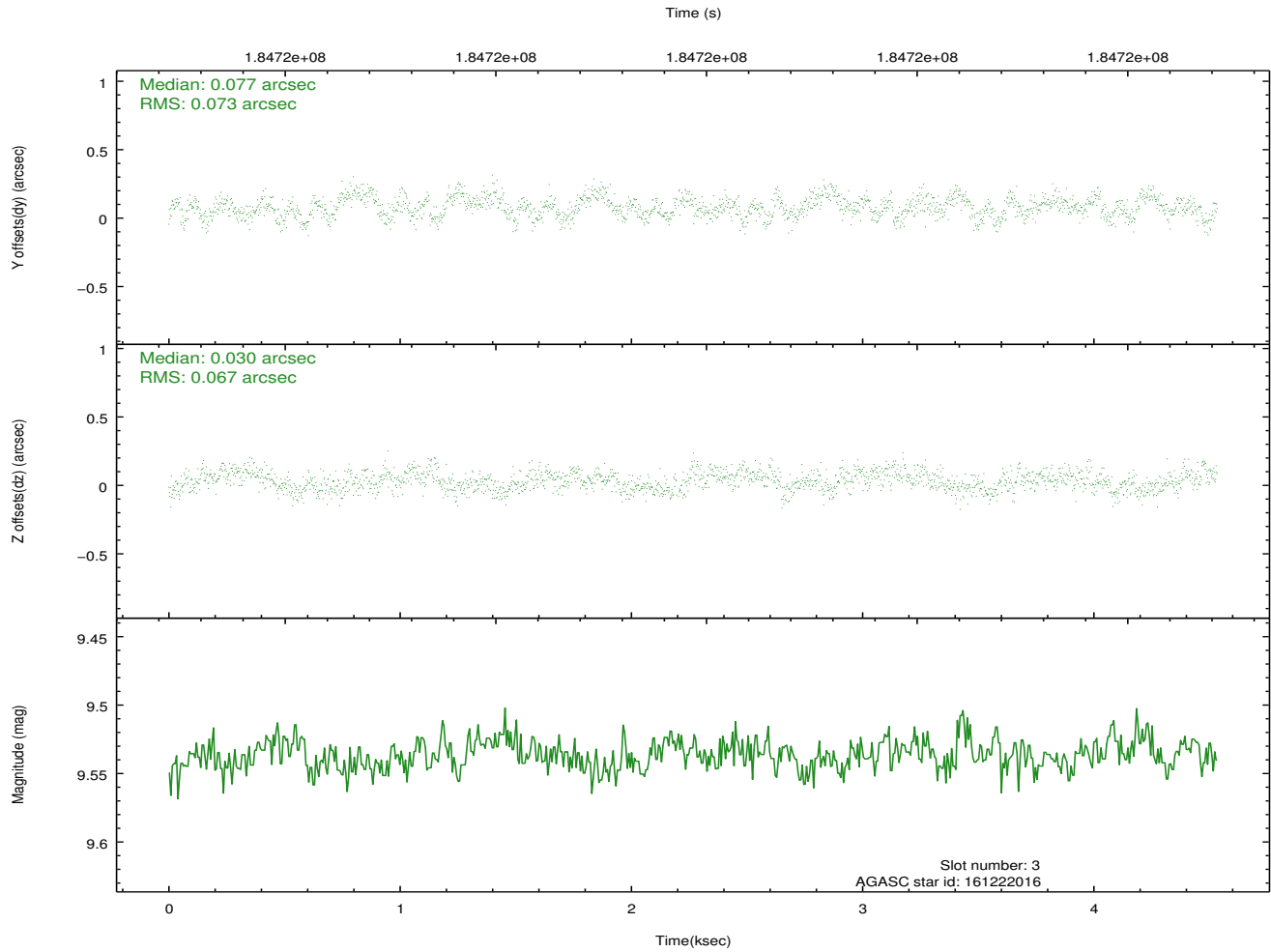
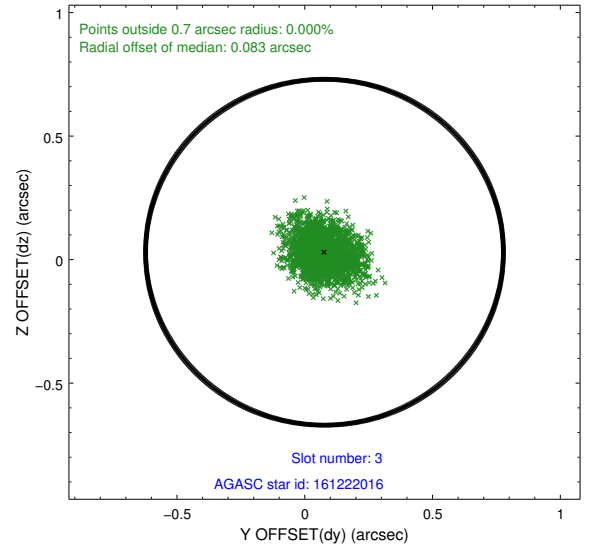
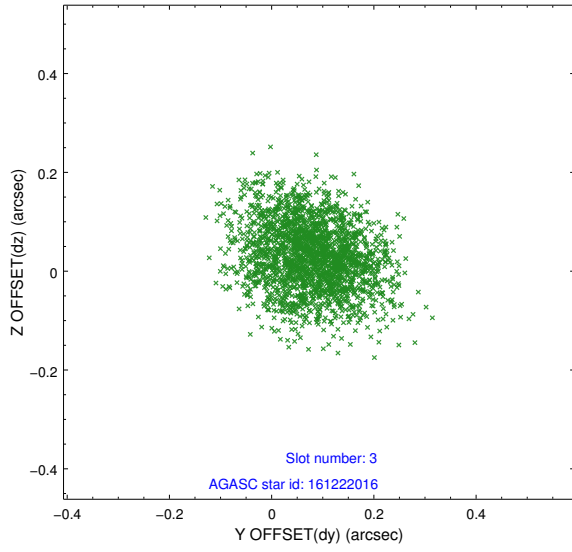


Slot Statistics

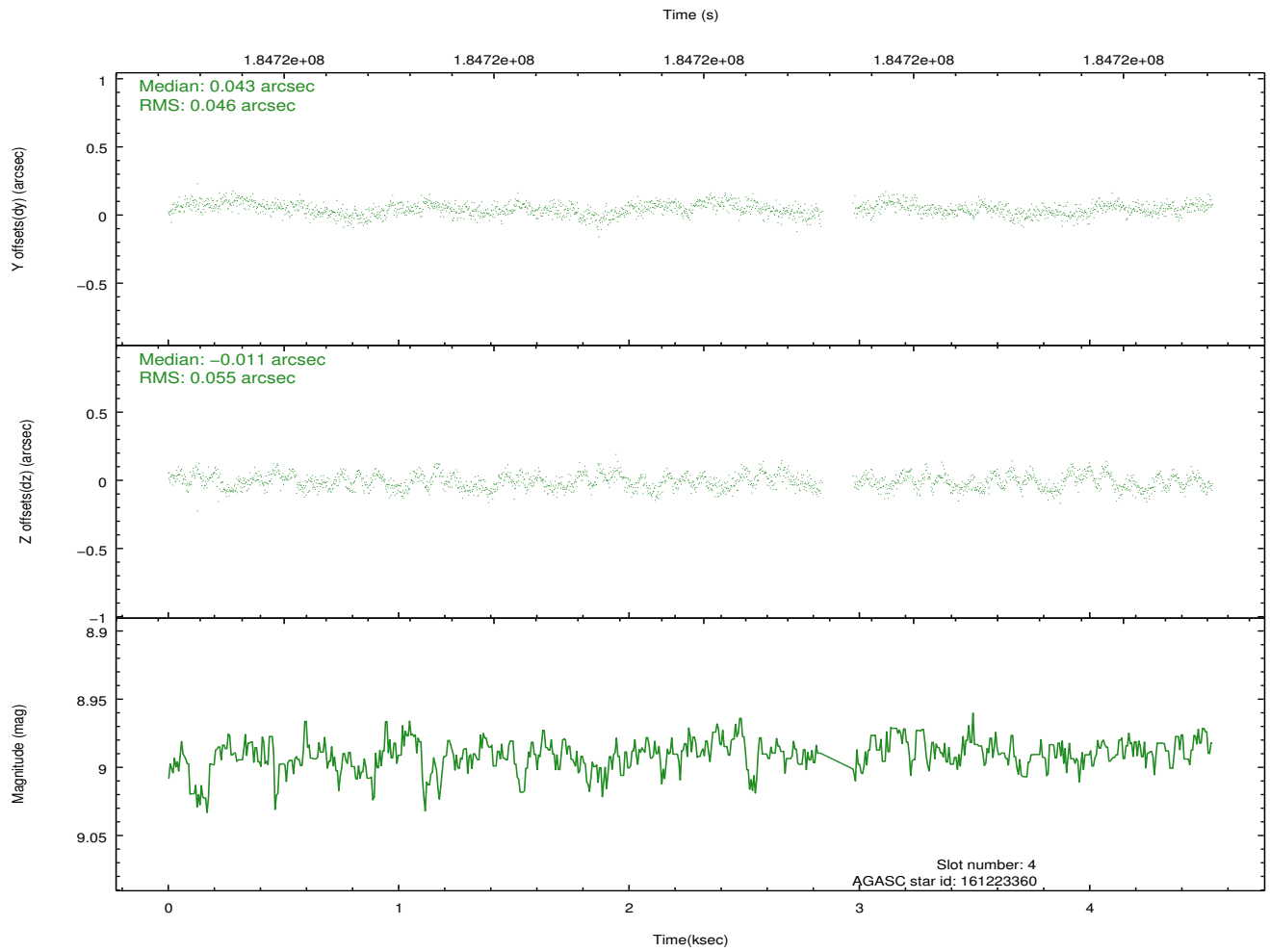
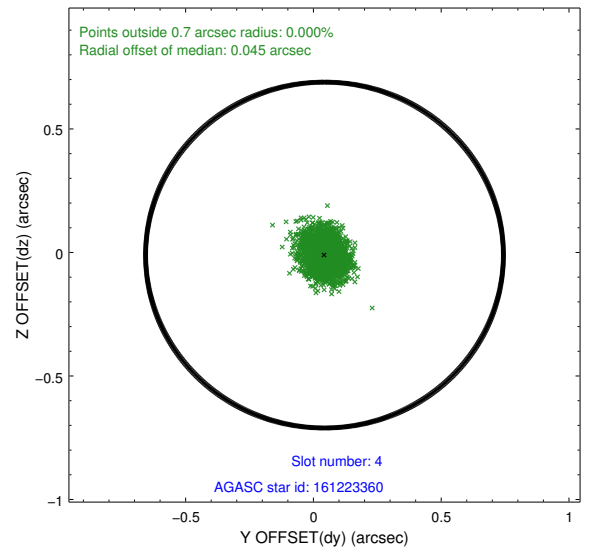
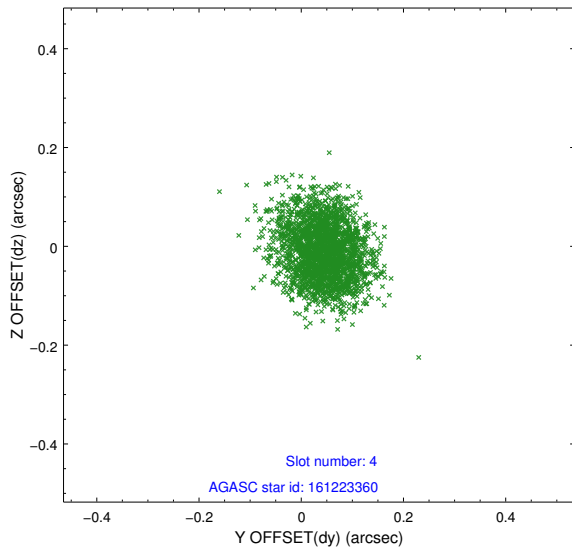
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 1106 | -0.031 | -0.046 | 0.007 | 0.011 | 0.000000 | 0.000000 | -759.39 | -1729.67 |
| 1 | FID | ACIS-S-4 | 7.21 | 1106 | 0.065 | 0.027 | 0.006 | 0.011 | 0.000000 | 0.000000 | 2153.38 | 177.46 |
| 2 | FID | ACIS-S-5 | 7.23 | 1106 | -0.065 | 0.027 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1810.51 | 172.71 |
| 3 | GUIDE | 161222016 | 9.54 | 2209 | 0.077 | 0.030 | 0.107 | 0.171 | 44.526629 | 20.590758 | -2065.75 | 1829.97 |
| 4 | GUIDE | 161223360 | 8.99 | 2144 | 0.043 | -0.011 | 0.077 | 0.122 | 43.771251 | 20.800226 | 322.65 | 676.54 |
| 5 | GUIDE | 161225088 | 6.68 | 2212 | -0.142 | -0.130 | 0.055 | 0.092 | 43.707656 | 20.373066 | 786.38 | 2157.95 |
| 6 | GUIDE | 161225128 | 8.74 | 2212 | -0.010 | 0.070 | 0.076 | 0.117 | 43.770393 | 21.595149 | -141.63 | -2146.45 |
| 7 | GUIDE | 161226552 | 9.54 | 2211 | 0.030 | 0.043 | 0.106 | 0.176 | 43.612313 | 21.326195 | 539.63 | -1280.50 |

2.4 Star Slots

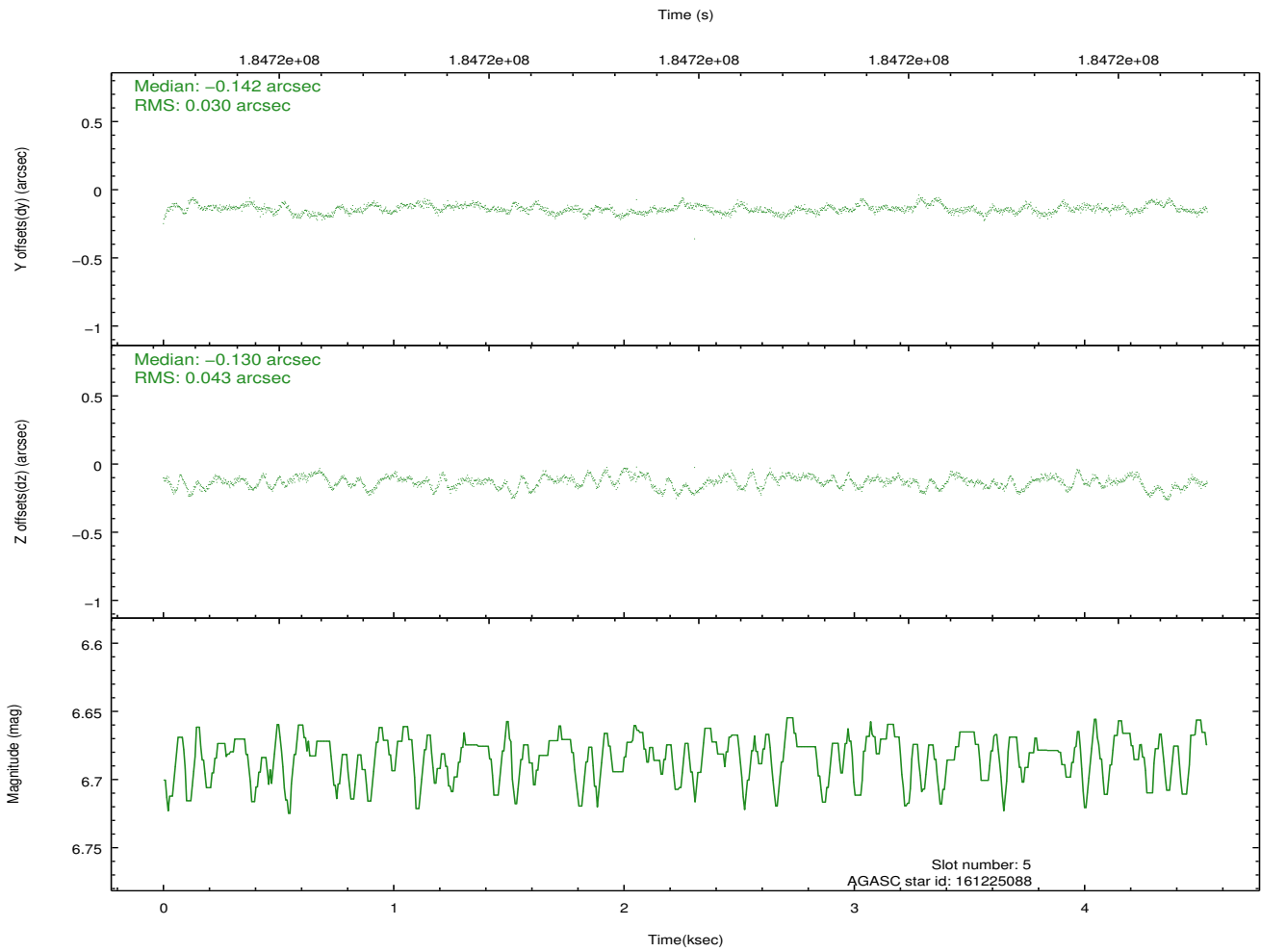
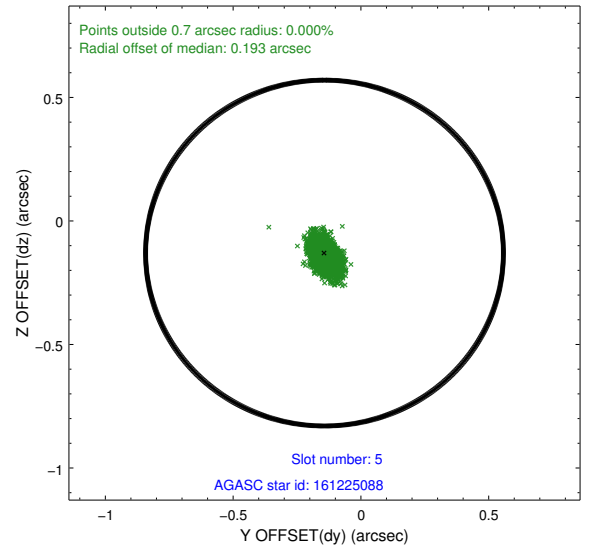
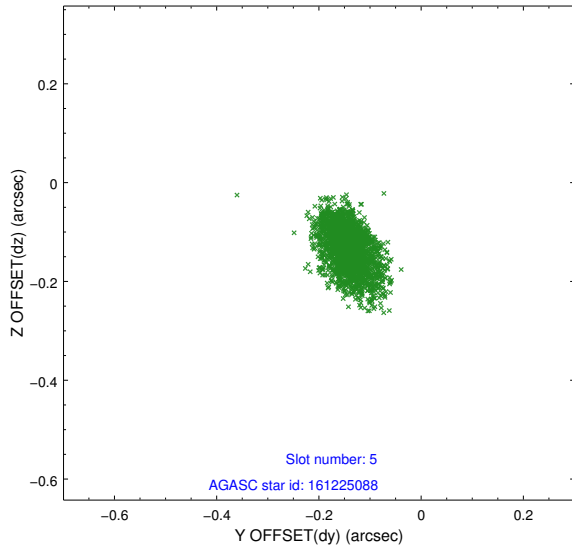
2.4.1 Slot 3



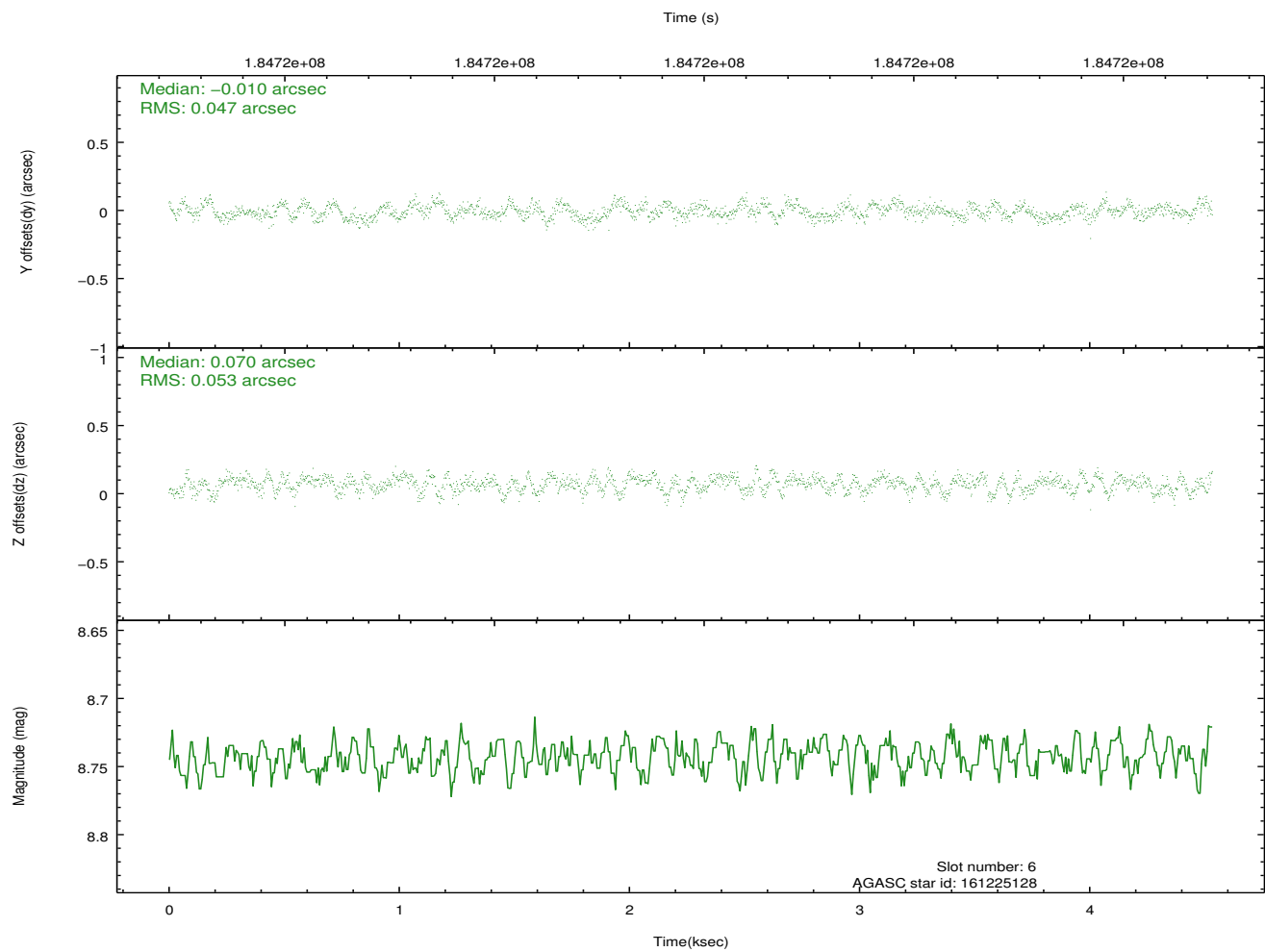
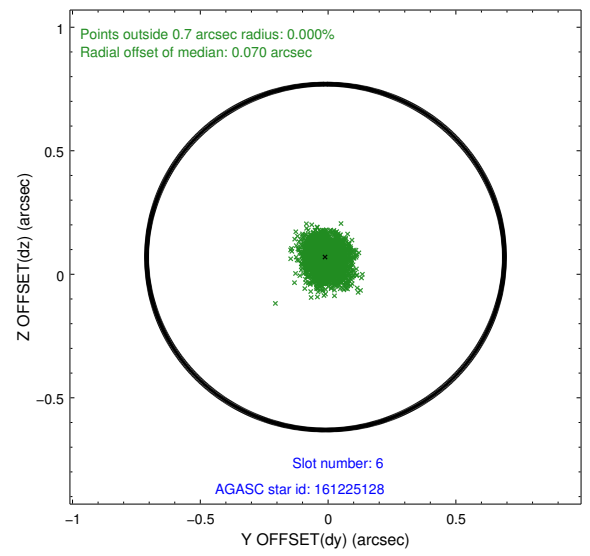
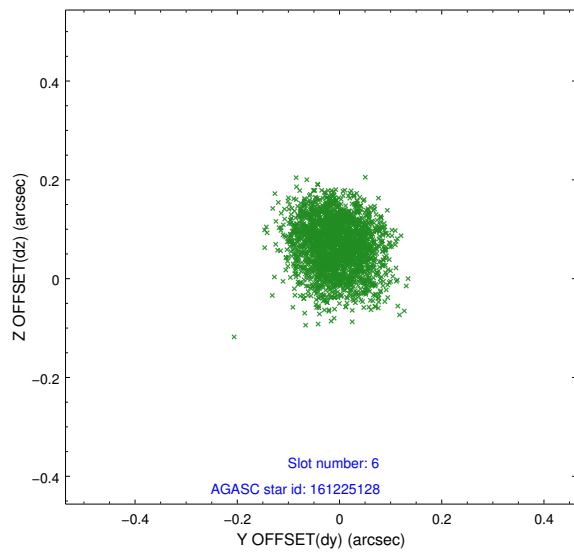
2.4.2 Slot 4



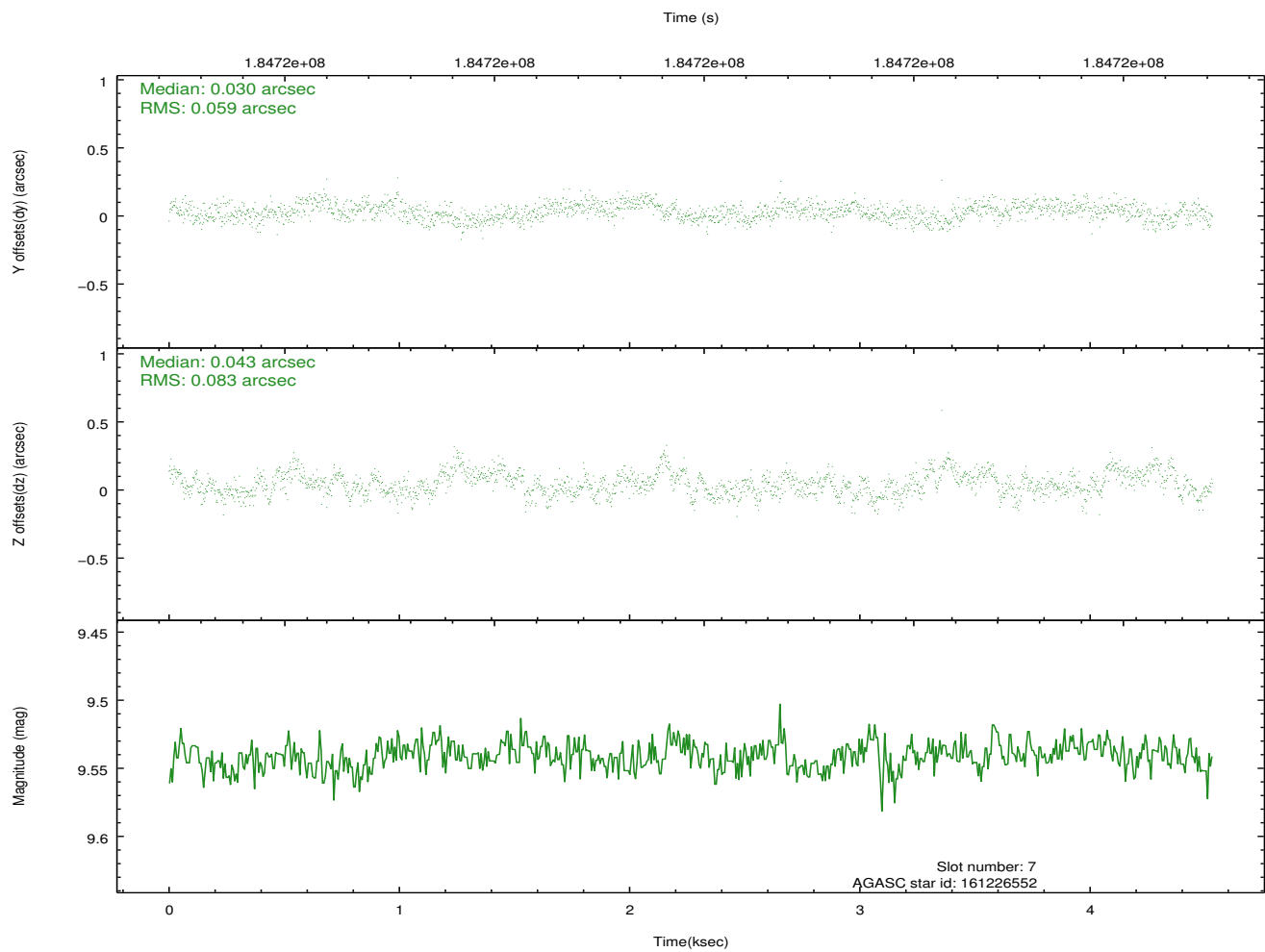
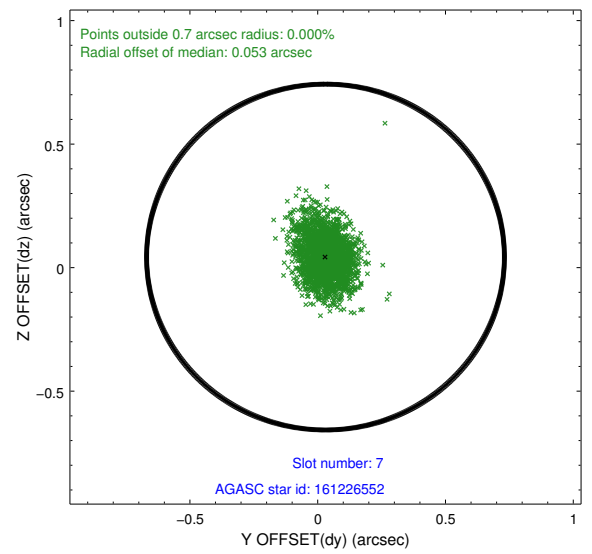
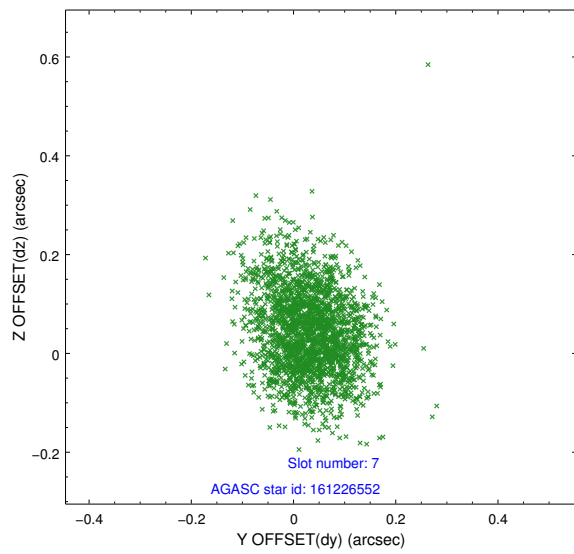
2.4.3 Slot 5



2.4.4 Slot 6

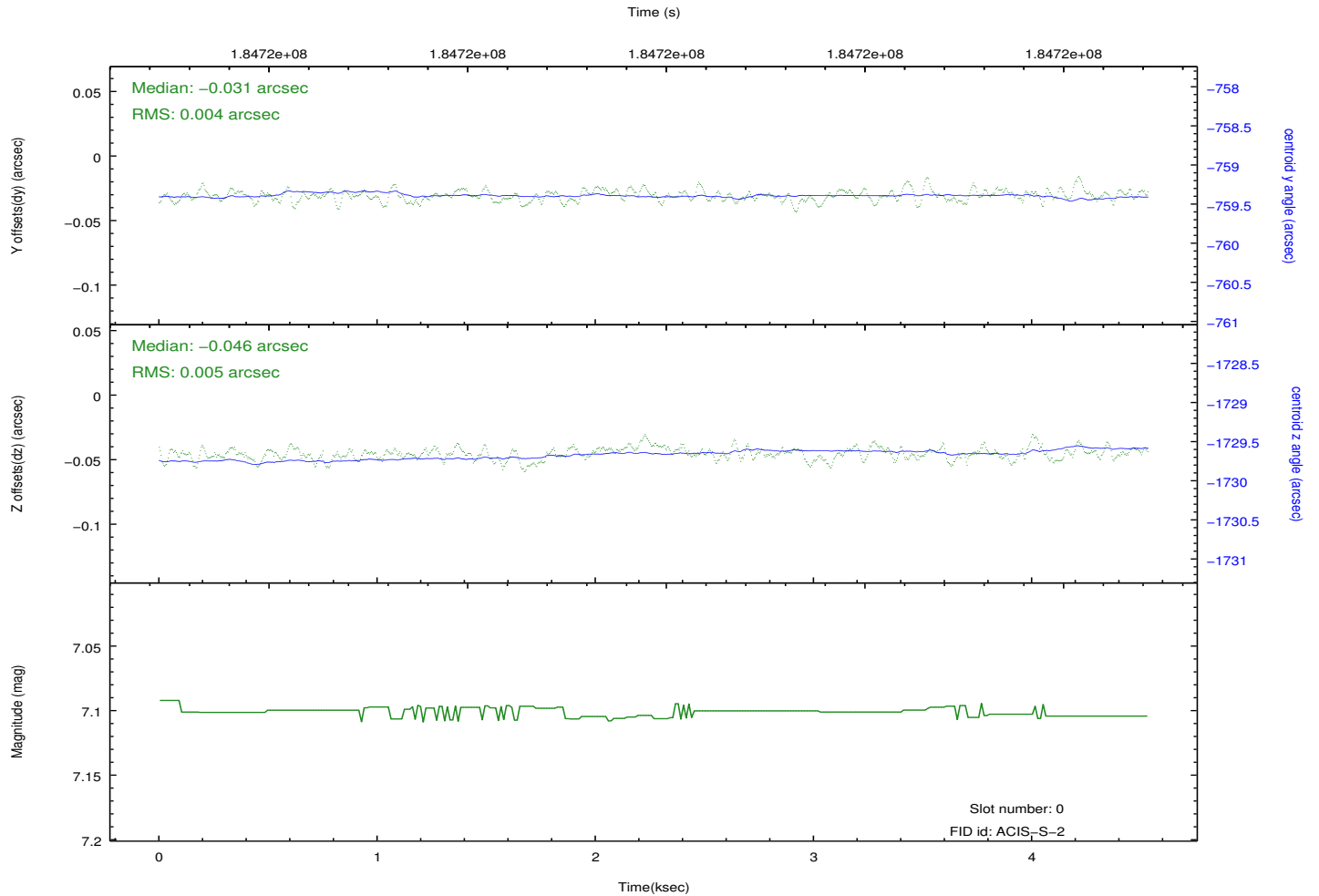
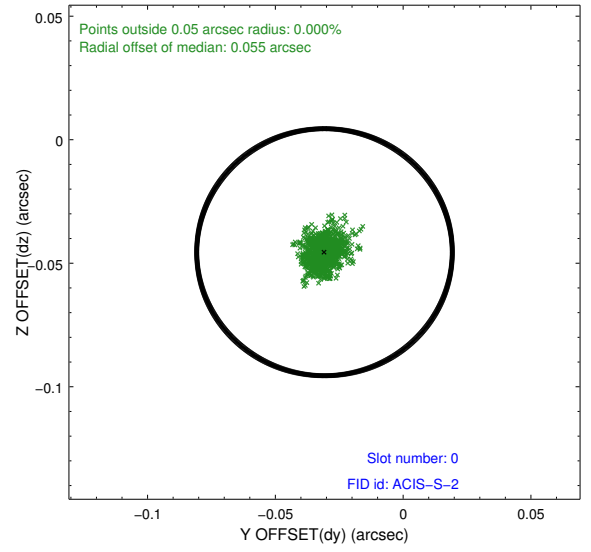
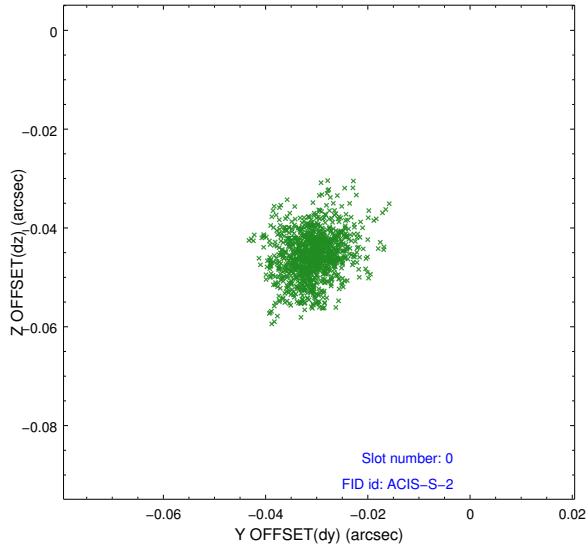


2.4.5 Slot 7

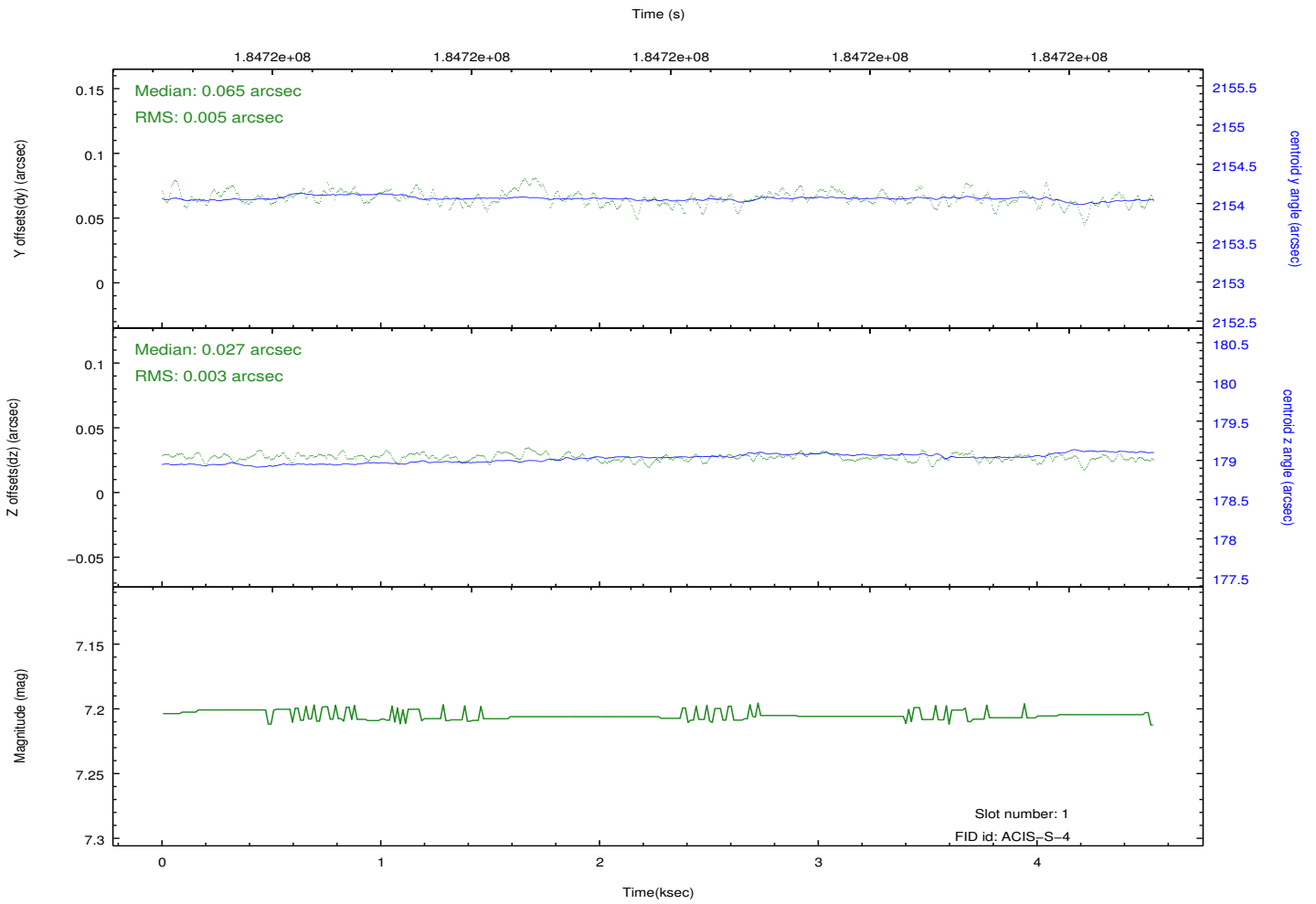
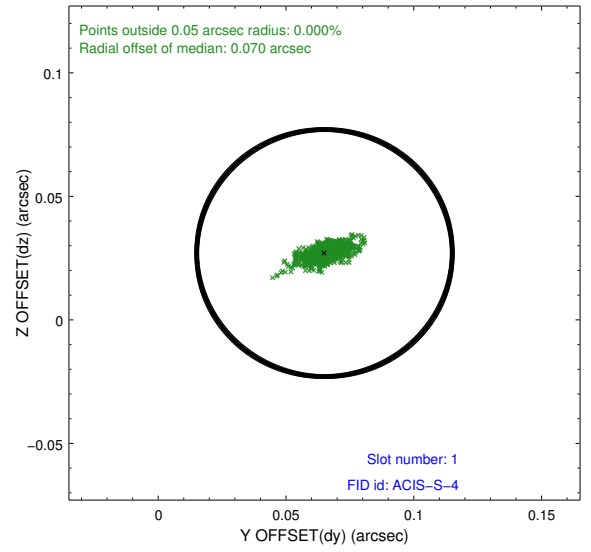
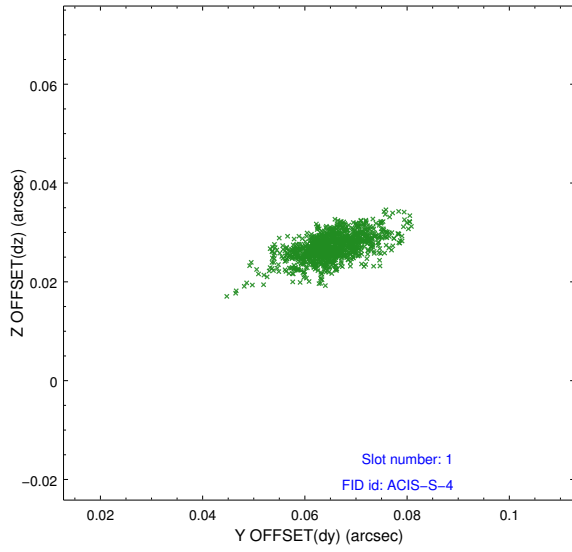


2.5 FID Slots

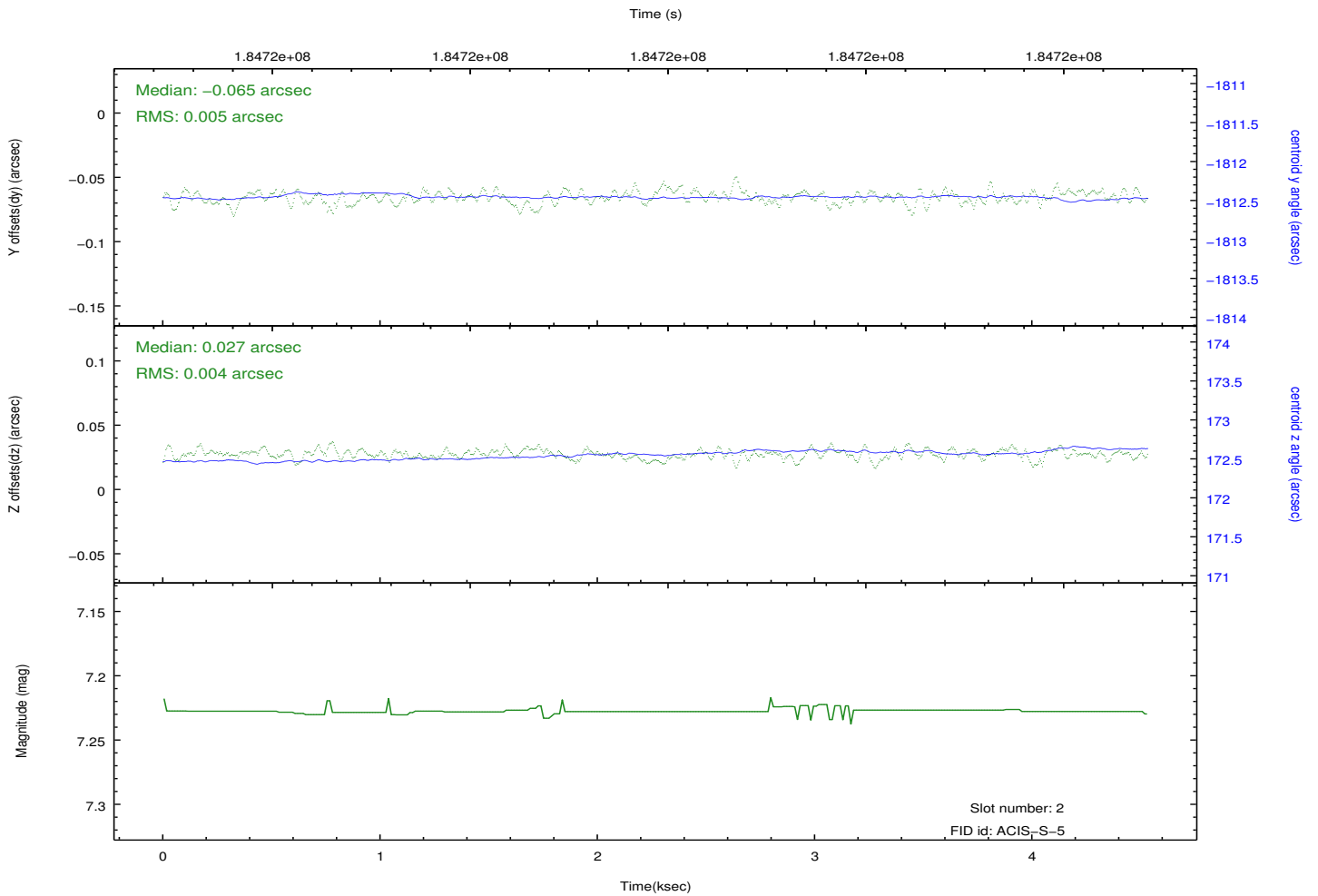
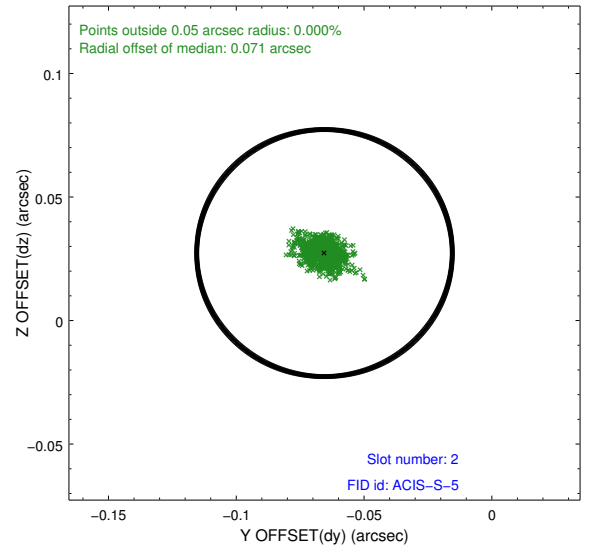
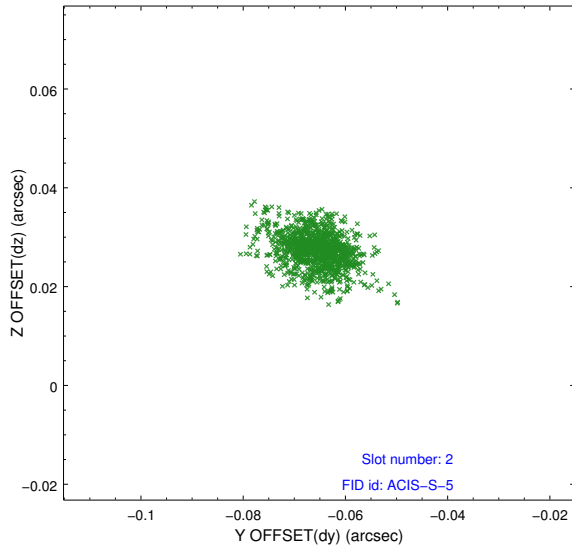
2.5.1 Slot 0



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) | 2012.11.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.53 |

A.2 Comments