

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13627 - L2 Version 1
Chandra X-Ray Center

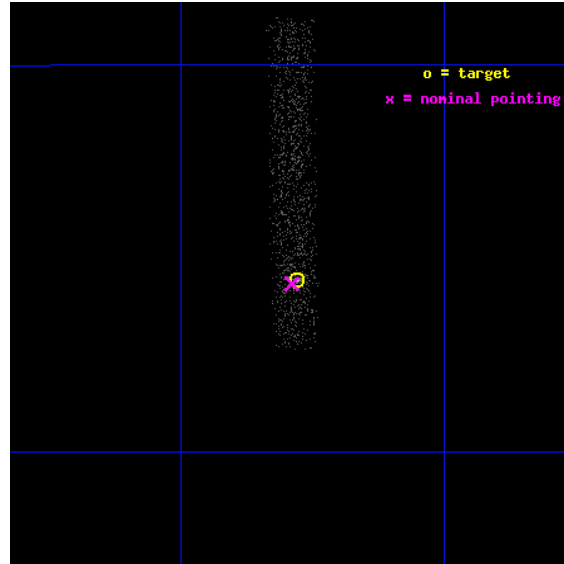
L2 Processing Date : Jun 11 2012

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1 Front

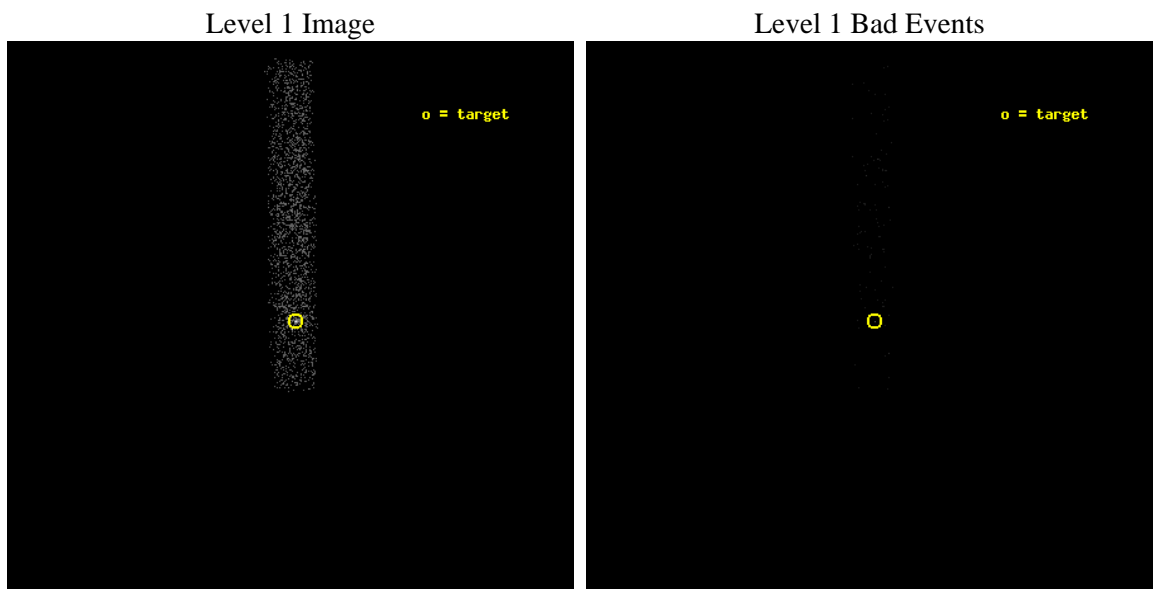
| | | |
|----------|---|---|
| seq_num | 200781 | Sequence number |
| obs_id | 13627 | Observation id |
| title | A Search for X-ray Emission from Colliding Magnetospheres in Young Eccentric Stellar Binaries | Proposal title |
| observer | Dr. Konstantin Getman | Principal investigator |
| object | RXJ1622.7-2325_P1 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 245.695 | Observer's specified target RA [deg] |
| dec_targ | -23.425861 | Observer's specified target Dec [deg] |
| ra_nom | 245.69760802387 | Nominal RA [deg] |
| dec_nom | -23.427518703598 | Nominal Dec [deg] |
| roll_nom | 268.92677402235 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 3069.460216403 | Sum of GTIs [s] |
| livetime | 2783.8383968828 | Livetime [s] |
| ontime7 | 3069.460216403 | Sum of GTIs [s] |
| l2events | 1760 | Number of level 2 events |



2 OBI

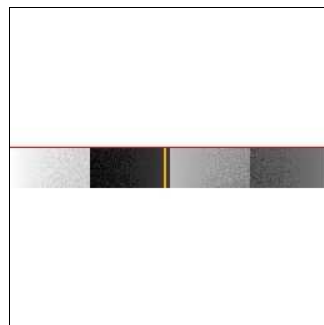
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 3000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 3069.460216403 | Sum of GTIs [s] |
| caldsver | 4.4.10 | | ontime7 | 3069.460216403 | Sum of GTIs [s] |
| date | 2012-06-11T22:32:02 | Date and time of file creation | l1events | 2989 | Number of level 1 events |
| revision | 1 | Processing version of data | | | |

2.1.4 Events

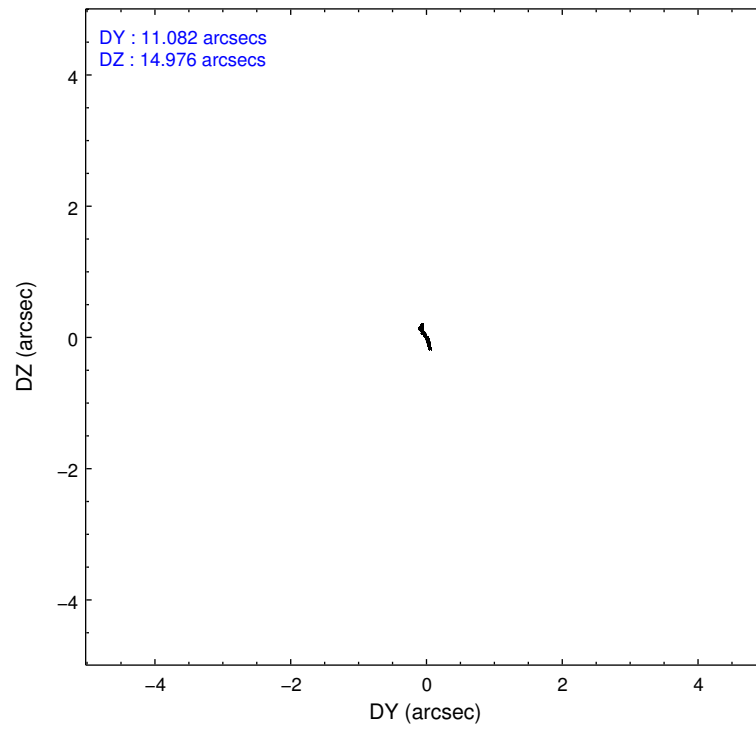
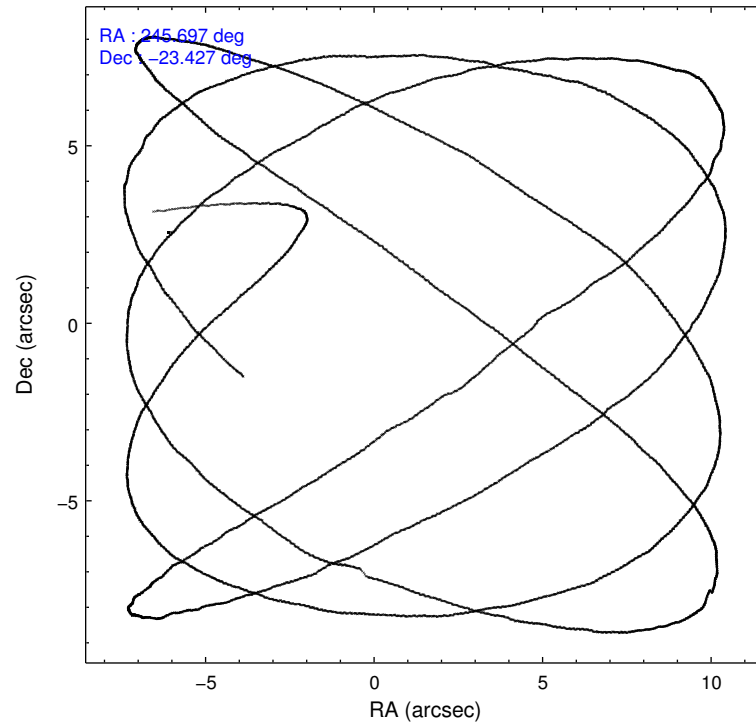
| | |
|-----------------|--------------|
| | ccd 7 |
| level 1 events | 2989 |
| rejected events | 1155 |
| rejected % | 38% |

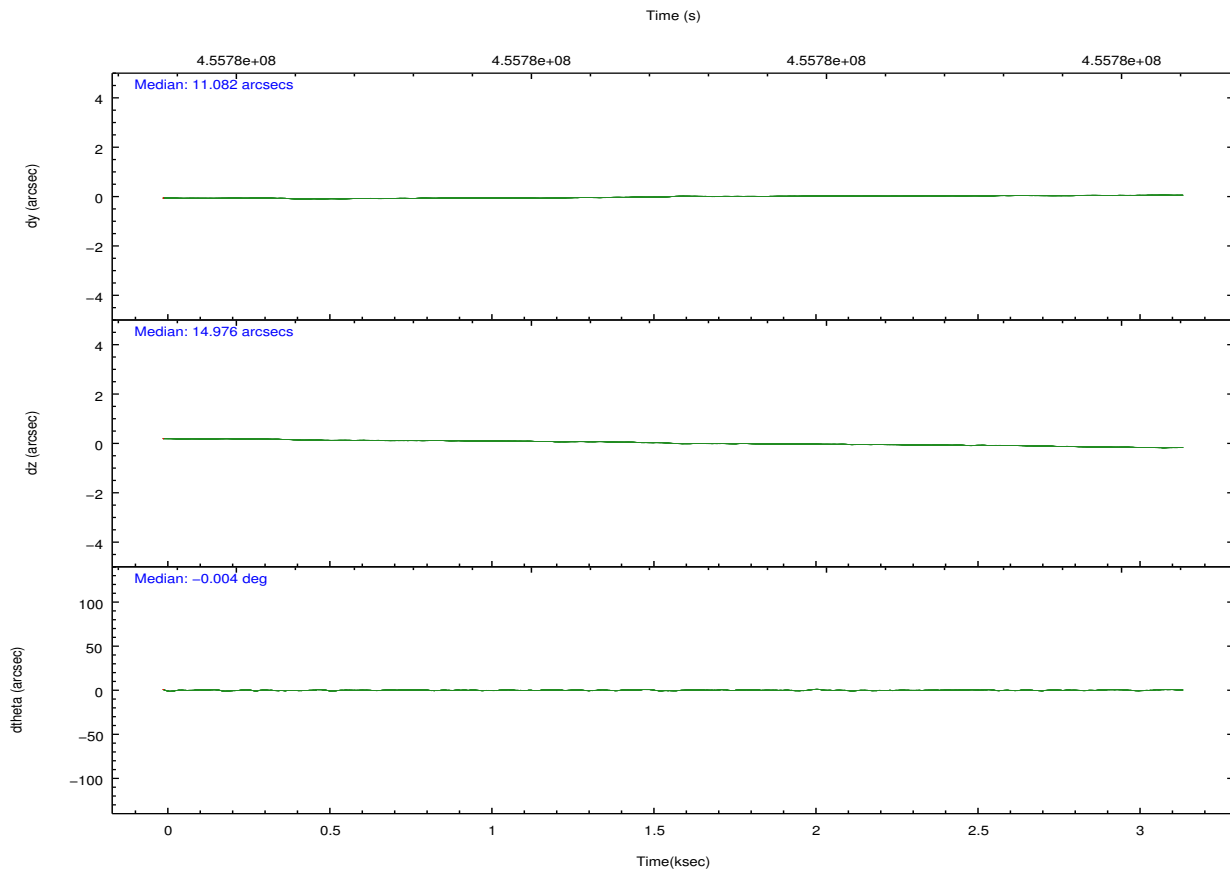
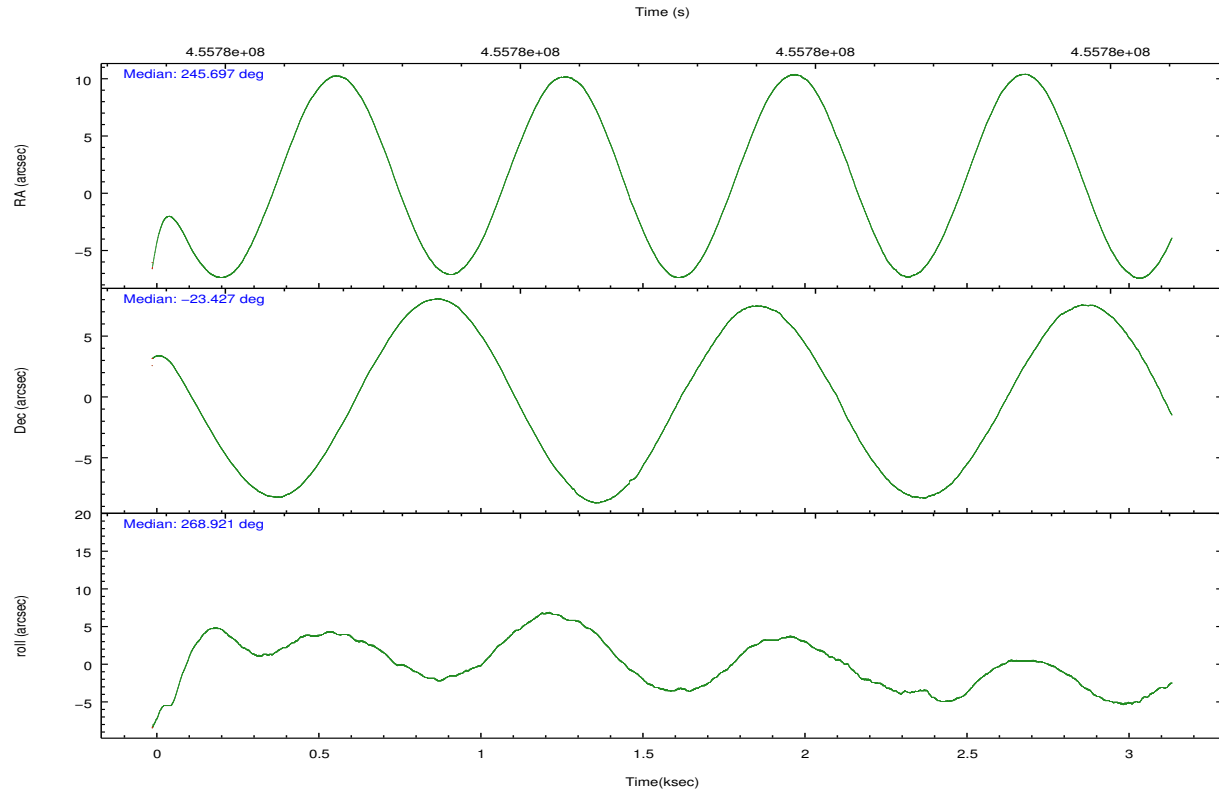
| | |
|----------------|--------------|
| | ccd 7 |
| grade 0 events | 276 |
| | 9% |
| grade 1 events | 1 |
| | 0% |
| grade 2 events | 410 |
| | 13% |
| grade 3 events | 238 |
| | 7% |
| grade 4 events | 237 |
| | 7% |
| grade 5 events | 284 |
| | 9% |
| grade 6 events | 673 |
| | 22% |
| grade 7 events | 870 |
| | 29% |

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 | 245.682984 | 245.6976080238717 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | -23.403782 | -23.42751870359843 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 268.764339 | 268.9267740223502 | 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 | -190.1425803651734 | | | |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | | | |
| Phase constraints | Y | Y | | | |
| [d] Phase period | 3.230000 | 3.230000 | | | |
| [d] Phase epoch (MJD) | 55627.380000 | 55627.380000 | | | |
| Phase start | 0.980000 | 0.980000 | | | |
| Phase end | 0.990000 | 0.990000 | | | |
| Phase start error | 0.010000 | 0.010000 | | | |
| Phase end error | 0.010000 | 0.010000 | | | |
| [s] Observation start time (MET) | 455775044.184000 | 455773771.77246 | | | |
| Observation start date | 2012-06-11T04:09:38 | 2012-06-11T03:49:31 | | | |
| [s] Observation end time (MET) | 455778044.184000 | 455778884.98523 | | | |
| Observation end date | 2012-06-11T04:59:38 | 2012-06-11T05:14:44 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



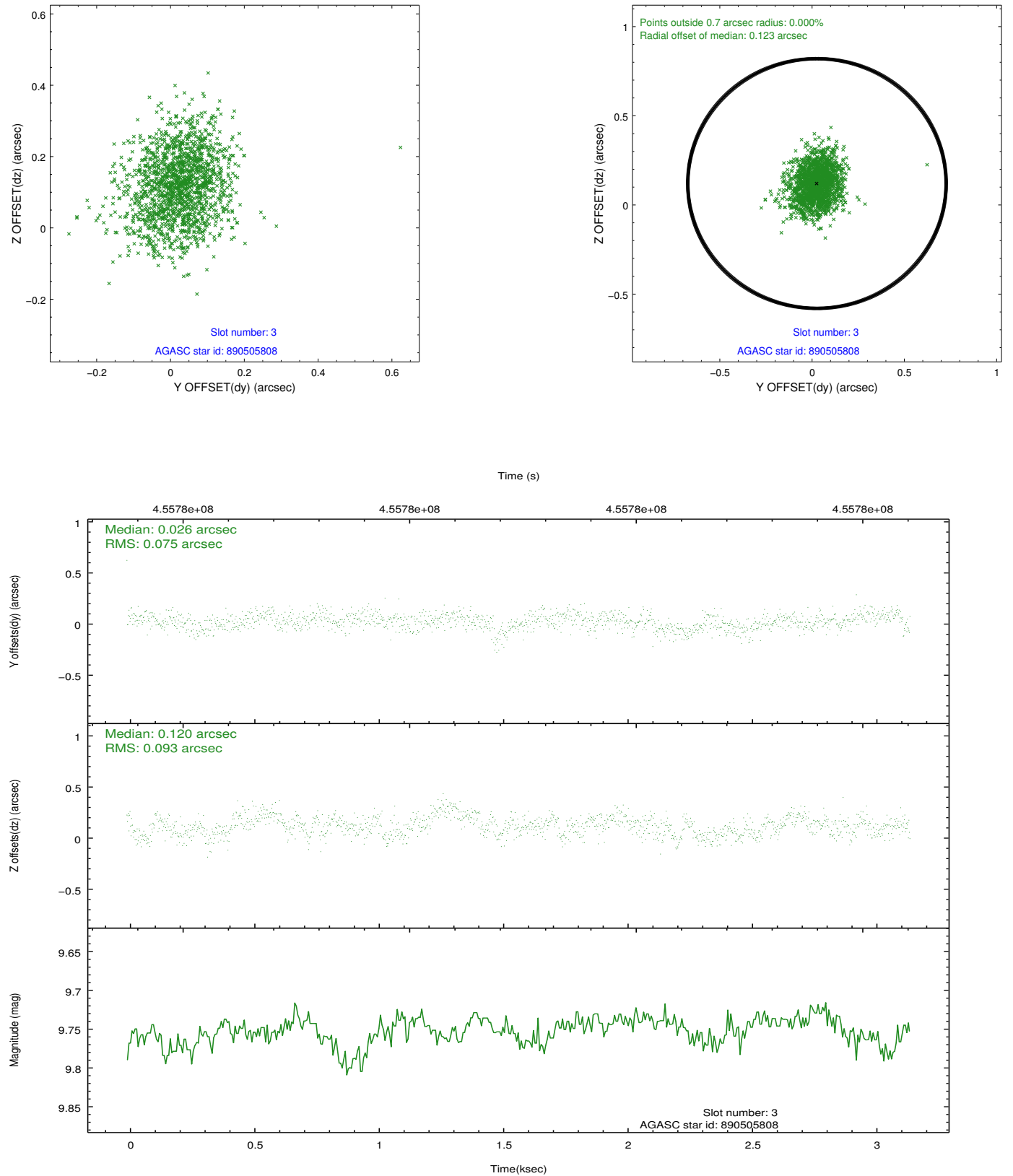


Slot Statistics

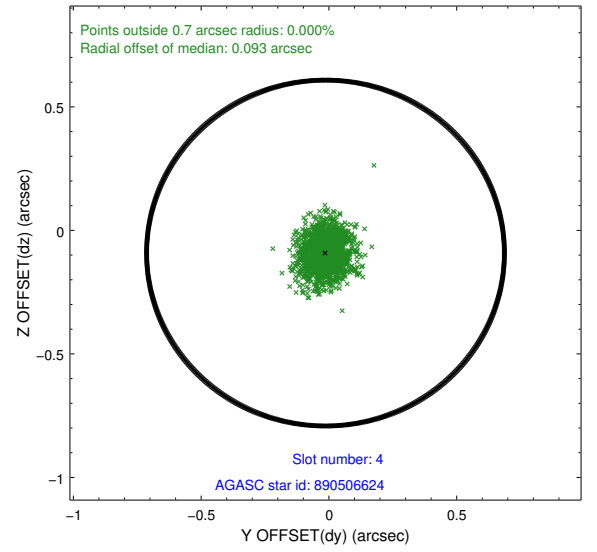
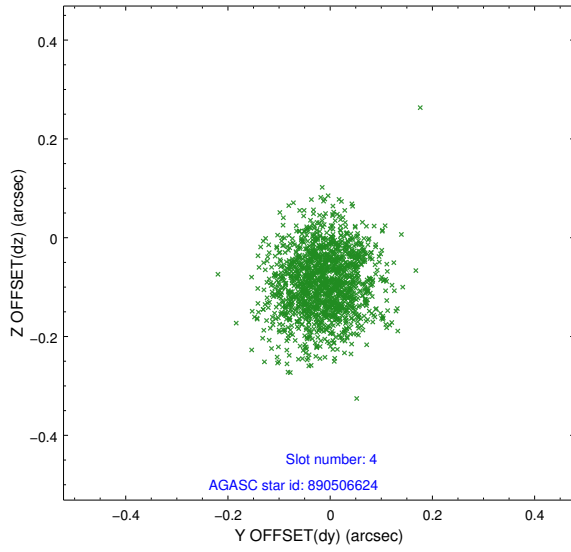
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 6.91 | 767 | -0.070 | -0.027 | 0.007 | 0.010 | 0.000000 | 0.000000 | -763.99 | -1736.35 |
| 1 | FID | ACIS-S-4 | 7.00 | 768 | 0.198 | 0.041 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2148.62 | 170.11 |
| 2 | FID | ACIS-S-5 | 7.03 | 768 | -0.158 | -0.005 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1814.33 | 166.02 |
| 3 | GUIDE | 890505808 | 9.75 | 1535 | 0.026 | 0.120 | 0.127 | 0.205 | 245.020117 | -22.800017 | -2120.08 | -2245.73 |
| 4 | GUIDE | 890506624 | 8.91 | 1535 | -0.013 | -0.092 | 0.088 | 0.144 | 246.053874 | -23.500392 | 322.42 | 1230.28 |
| 5 | GUIDE | 890506752 | 8.80 | 1534 | -0.141 | 0.323 | 0.077 | 0.122 | 245.184812 | -23.845052 | 1627.04 | -1603.78 |
| 6 | GUIDE | 890507576 | 7.39 | 1536 | 0.093 | -0.121 | 0.079 | 0.130 | 245.329963 | -23.707983 | 1123.33 | -1140.29 |
| 7 | GUIDE | 890507552 | 7.39 | 1535 | 0.031 | -0.230 | 0.084 | 0.136 | 246.396169 | -23.405213 | -38.64 | 2355.39 |

2.4 Star Slots

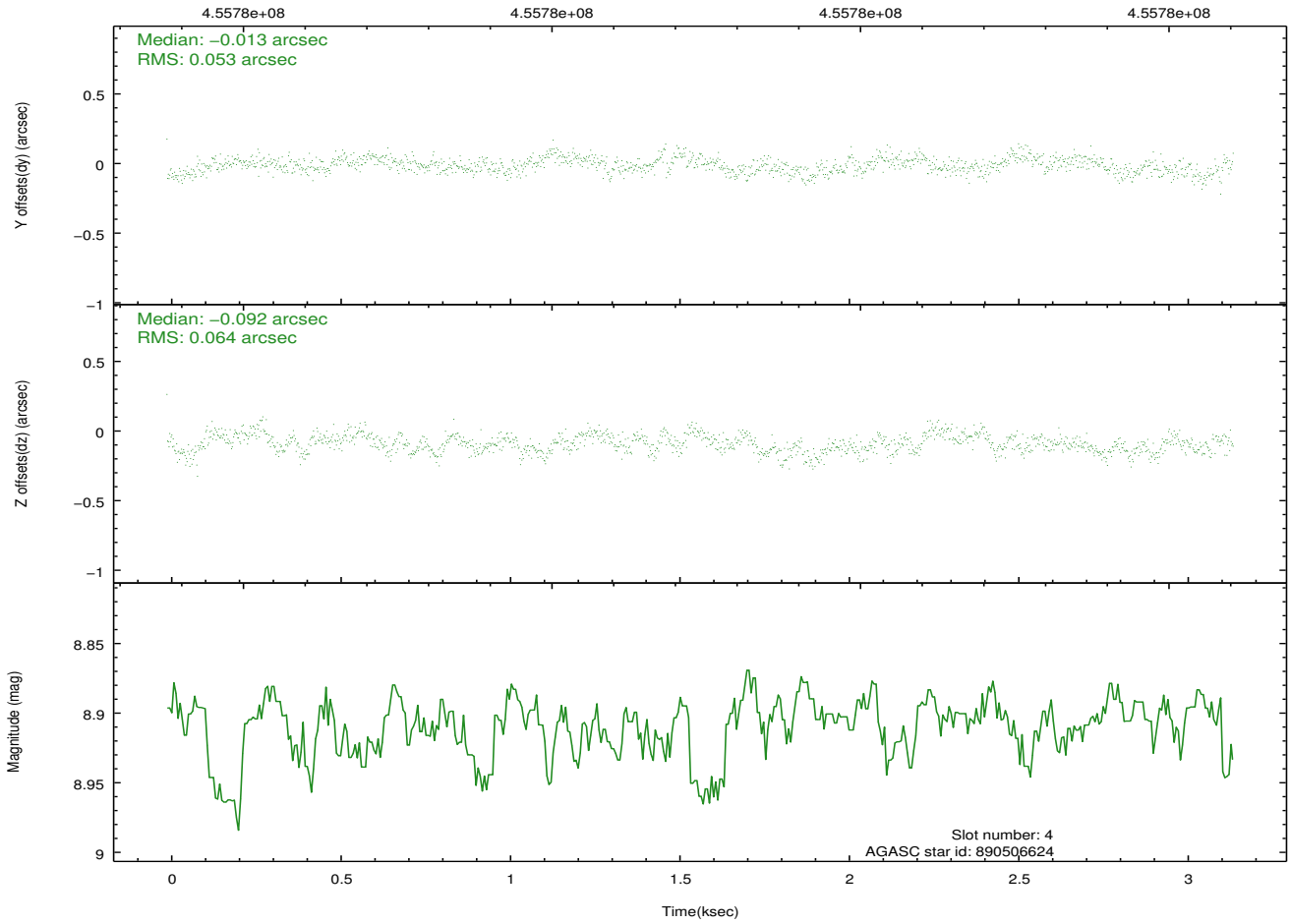
2.4.1 Slot 3



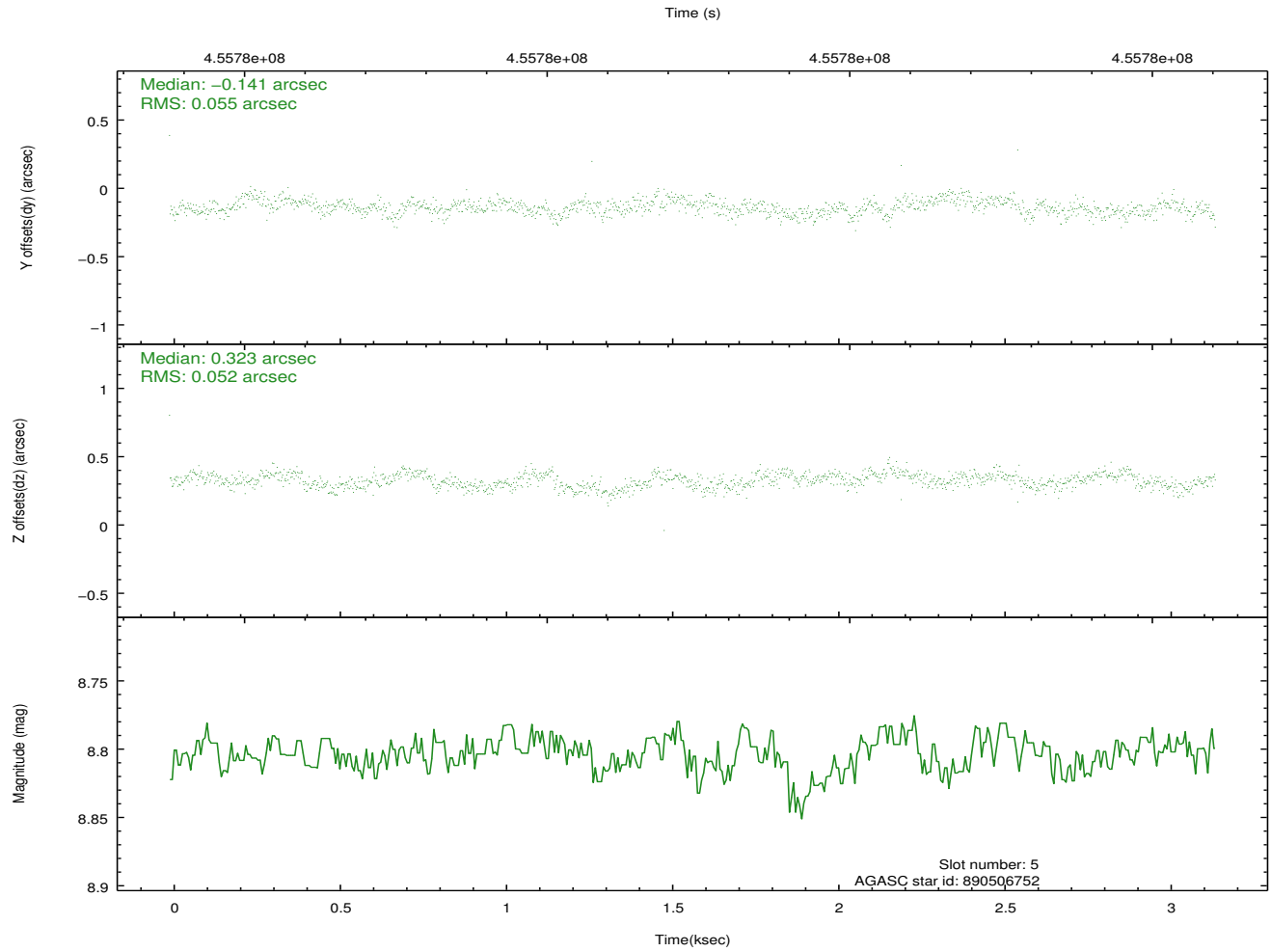
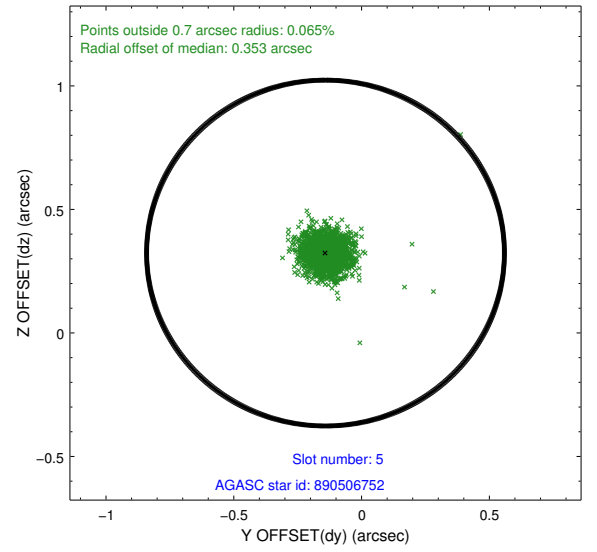
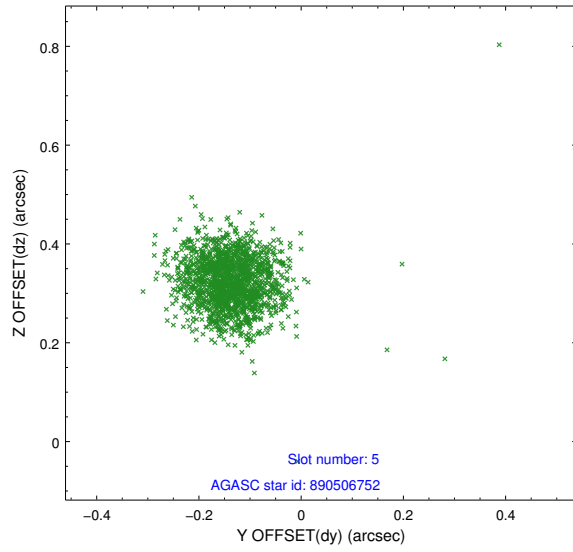
2.4.2 Slot 4



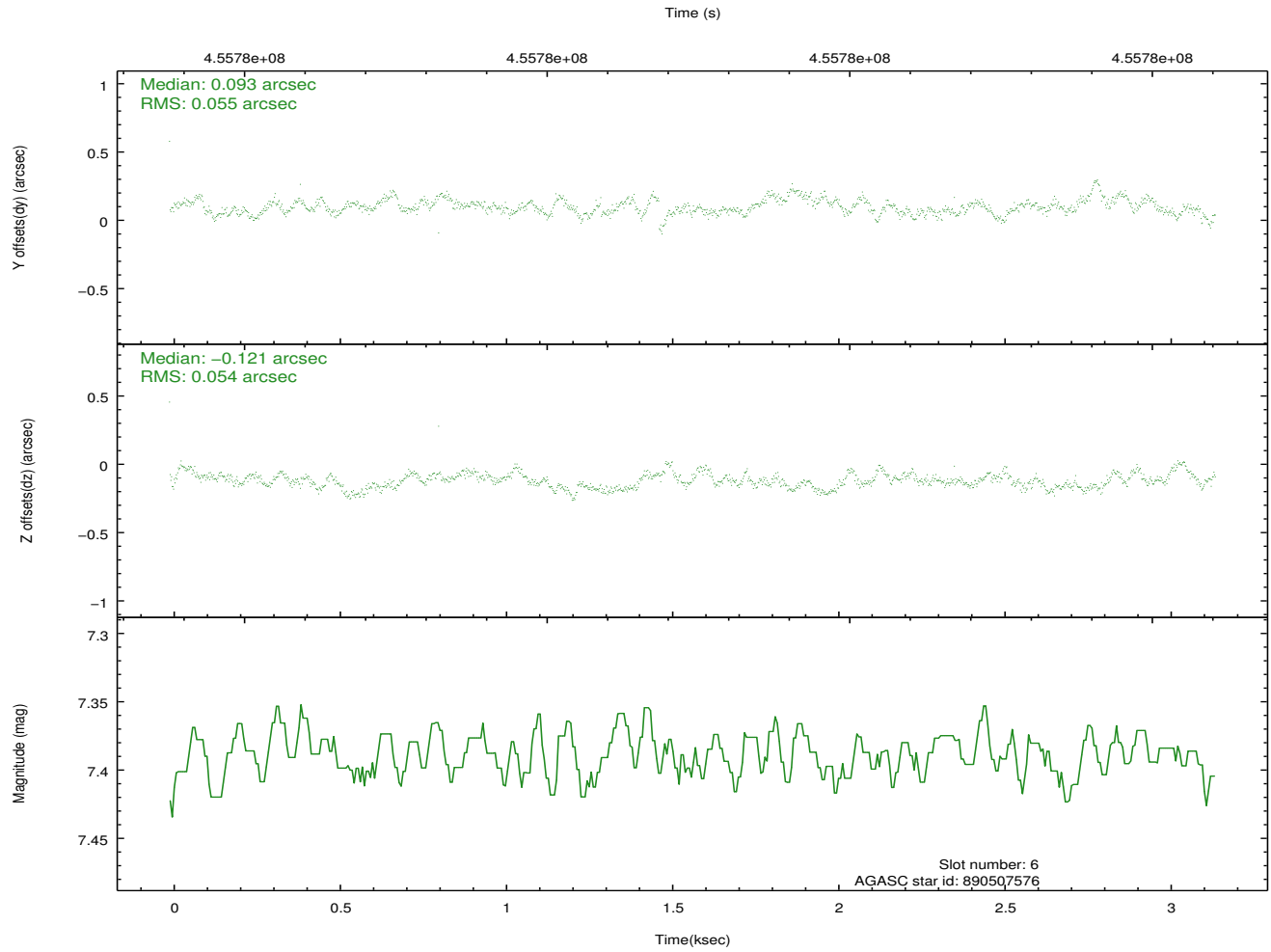
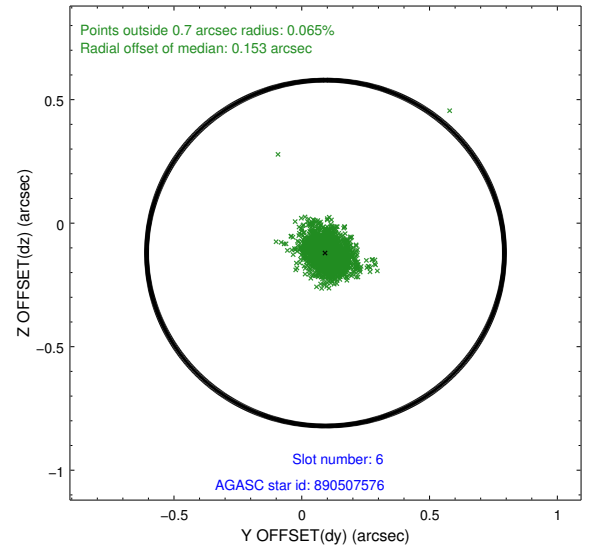
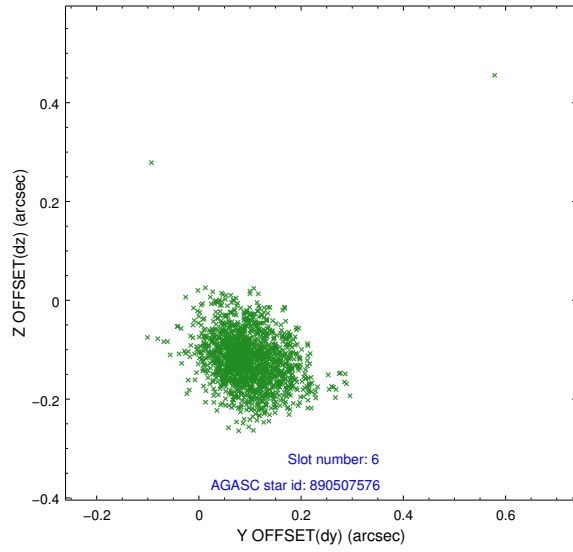
Time (s)



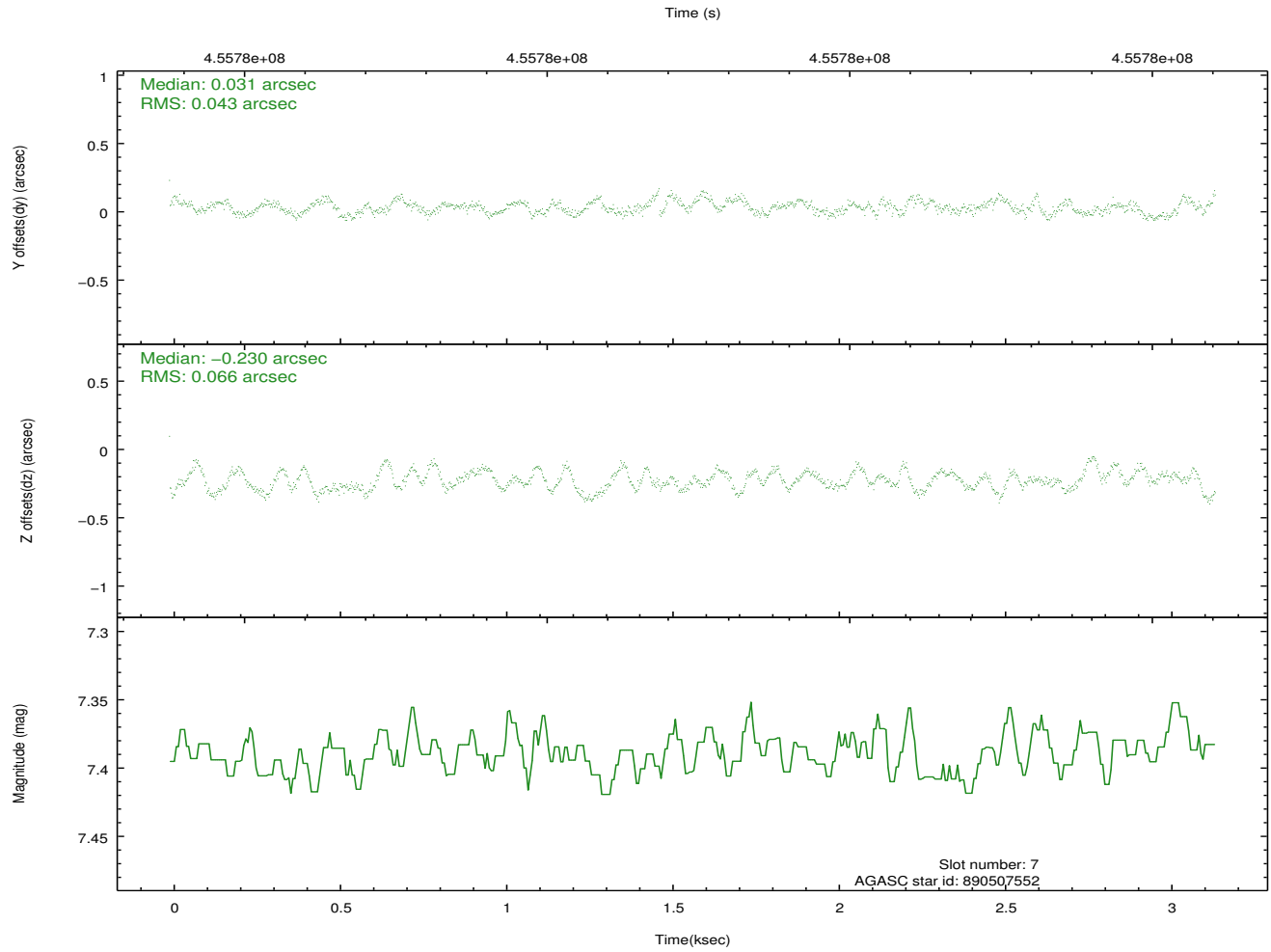
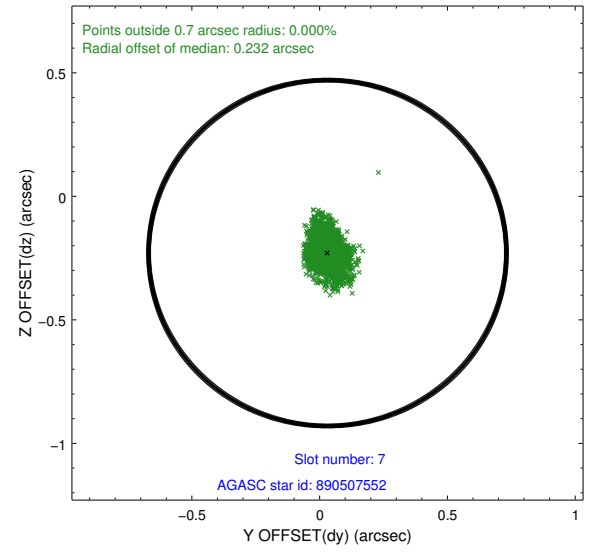
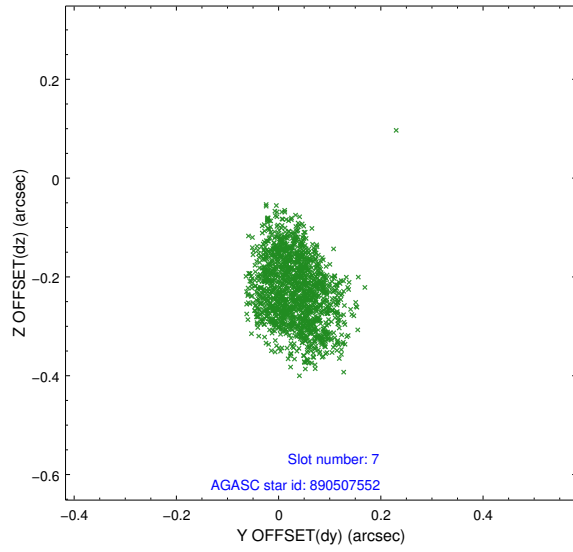
2.4.3 Slot 5



2.4.4 Slot 6

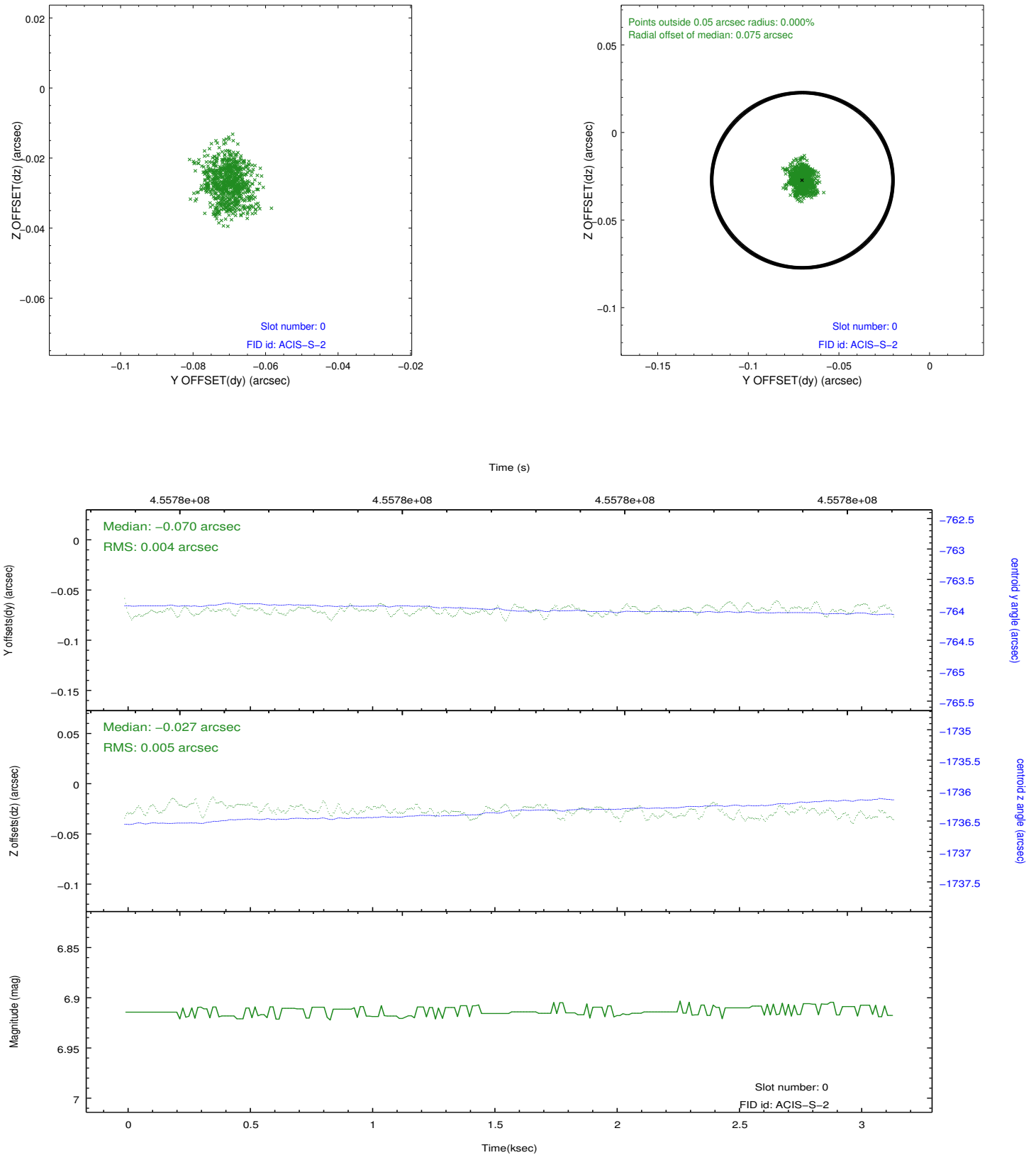


2.4.5 Slot 7

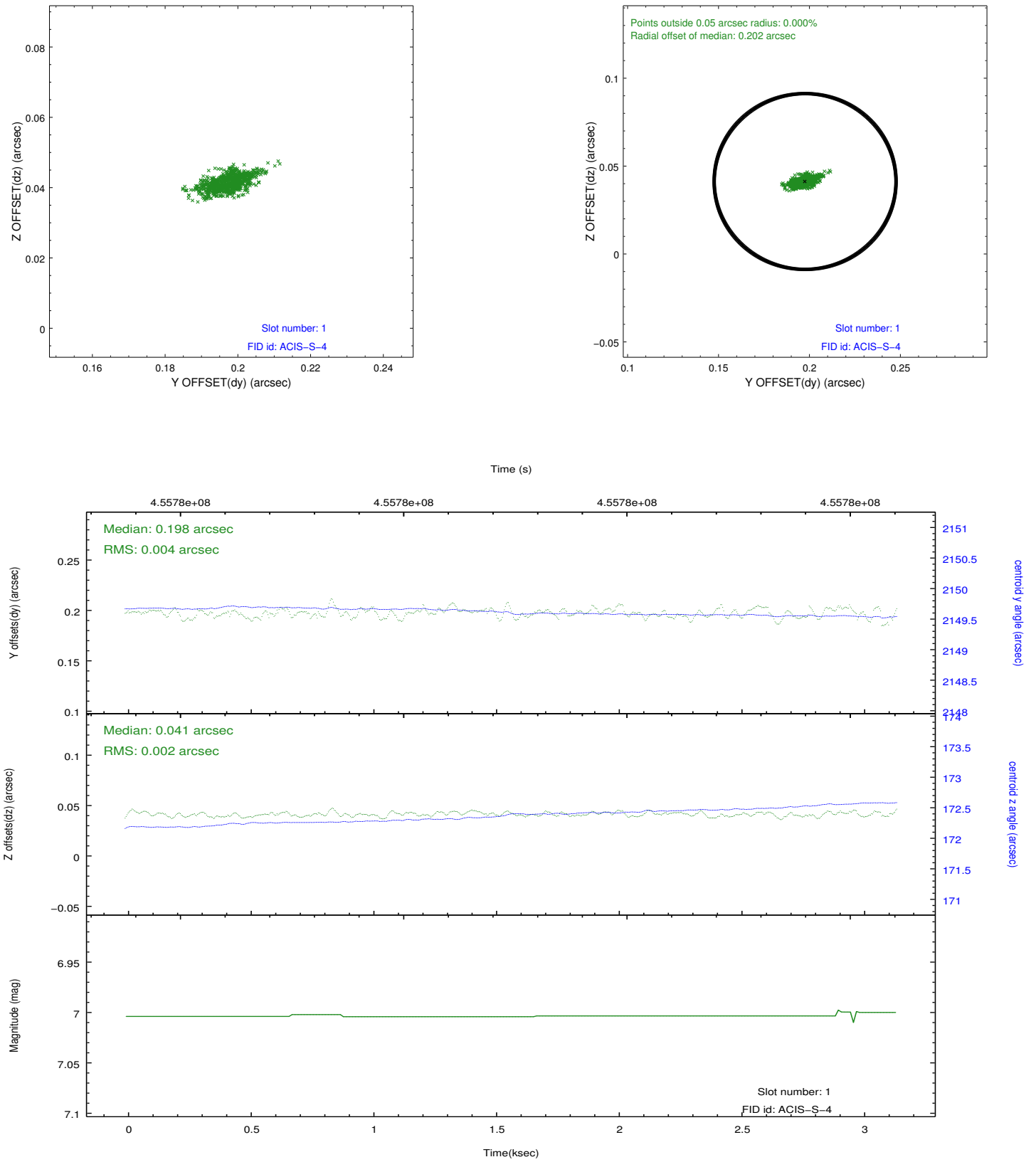


2.5 FID Slots

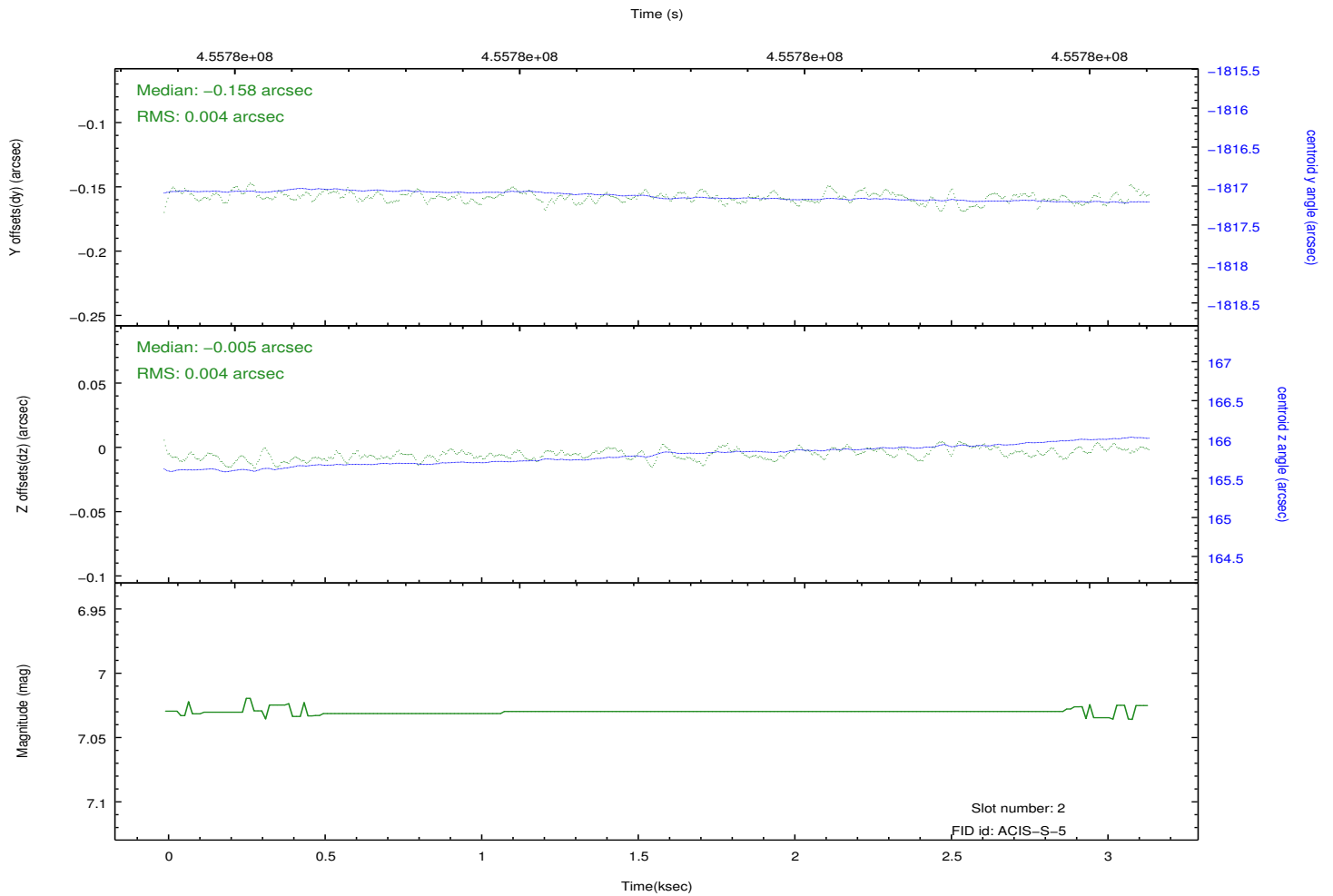
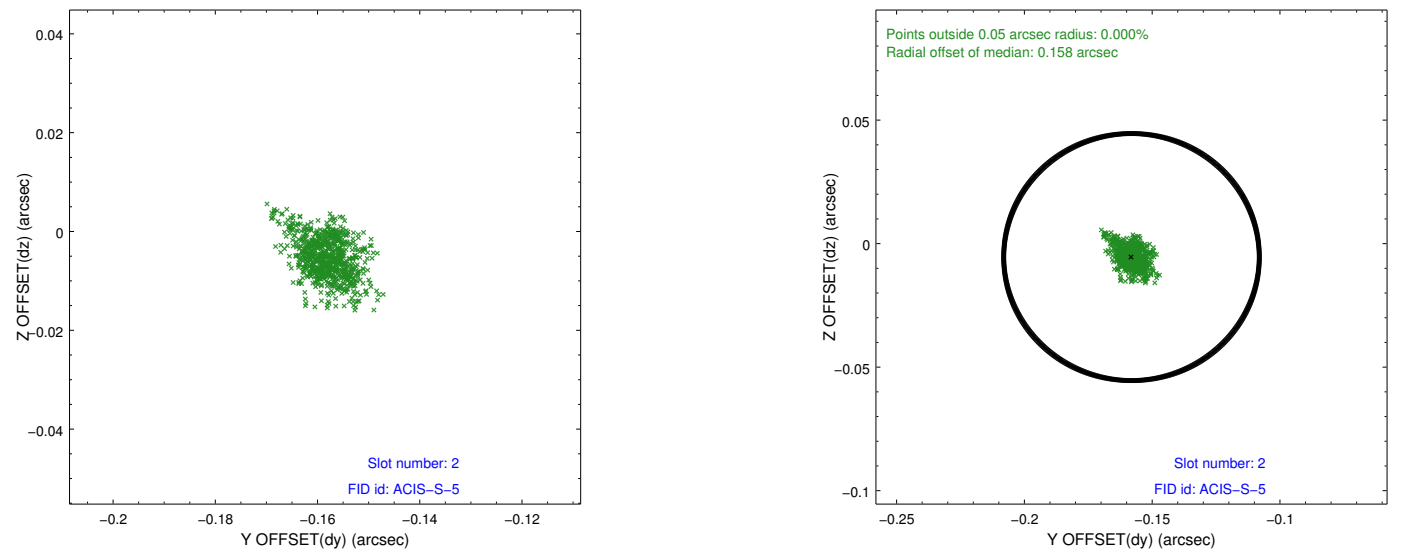
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.06.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.069460216403 |

A.2 Comments