

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8249 - L2 Version 3
Chandra X-Ray Center

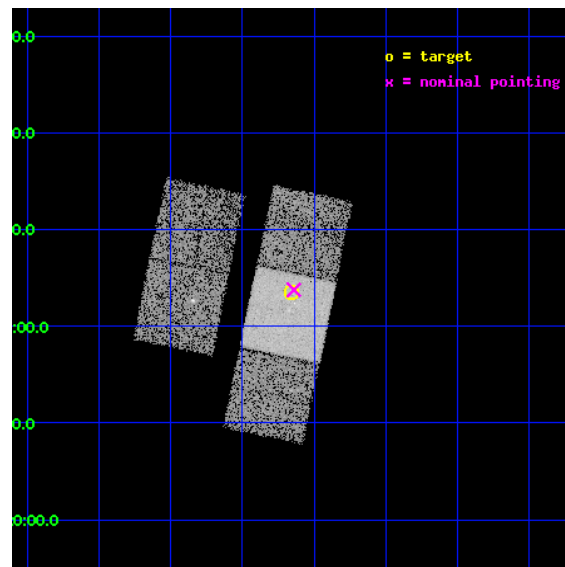
L2 Processing Date : Apr 23 2012

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1 Front

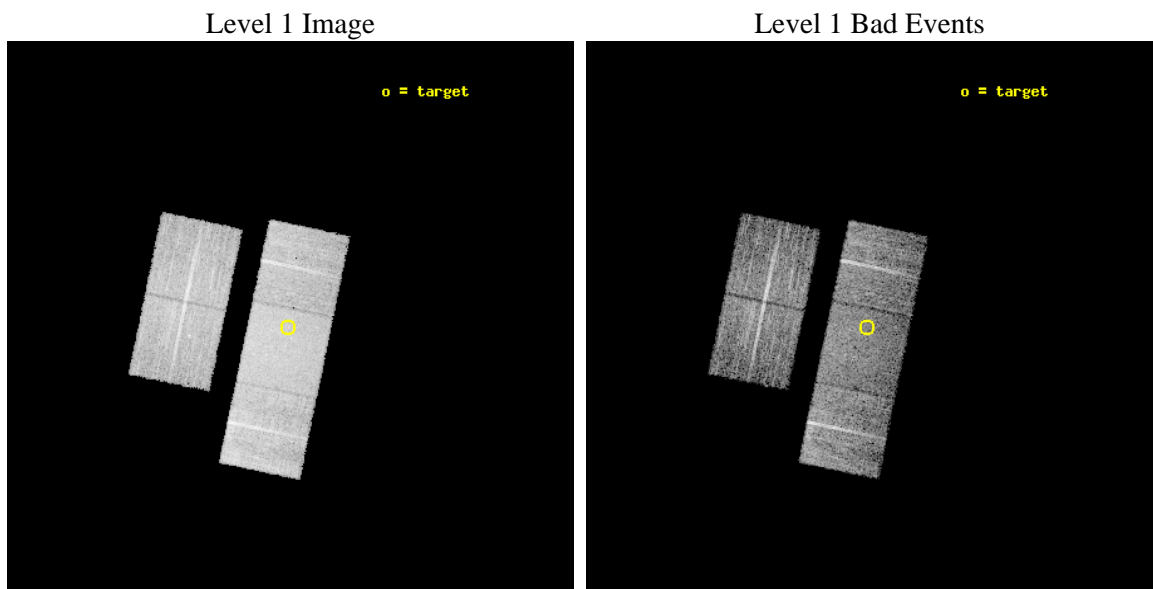
| | | |
|----------|--|---|
| seq_num | 701564 | Sequence number |
| obs_id | 8249 | Observation id |
| title | A snapshot X-ray/radio survey of AGNs selected from the long menu of SDSS galaxies | Proposal title |
| observer | Dr. Sebastian Heinz | Principal investigator |
| object | 2MASX J161209+000333 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 243.038708 | Observer's specified target RA [deg] |
| dec_targ | 0.0592 | Observer's specified target Dec [deg] |
| ra_nom | 243.03540159645 | Nominal RA [deg] |
| dec_nom | 0.062710348643909 | Nominal Dec [deg] |
| roll_nom | 101.79553267958 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 6029.5000463724 | Sum of GTIs [s] |
| livetime | 5950.7201894132 | Livetime [s] |
| ontime2 | 6029.5000463724 | Sum of GTIs [s] |
| ontime3 | 6029.5000463724 | Sum of GTIs [s] |
| ontime6 | 6029.5000463724 | Sum of GTIs [s] |
| ontime7 | 6029.5000463724 | Sum of GTIs [s] |
| ontime8 | 6026.3590560555 | Sum of GTIs [s] |
| l2events | 56936 | Number of level 2 events |



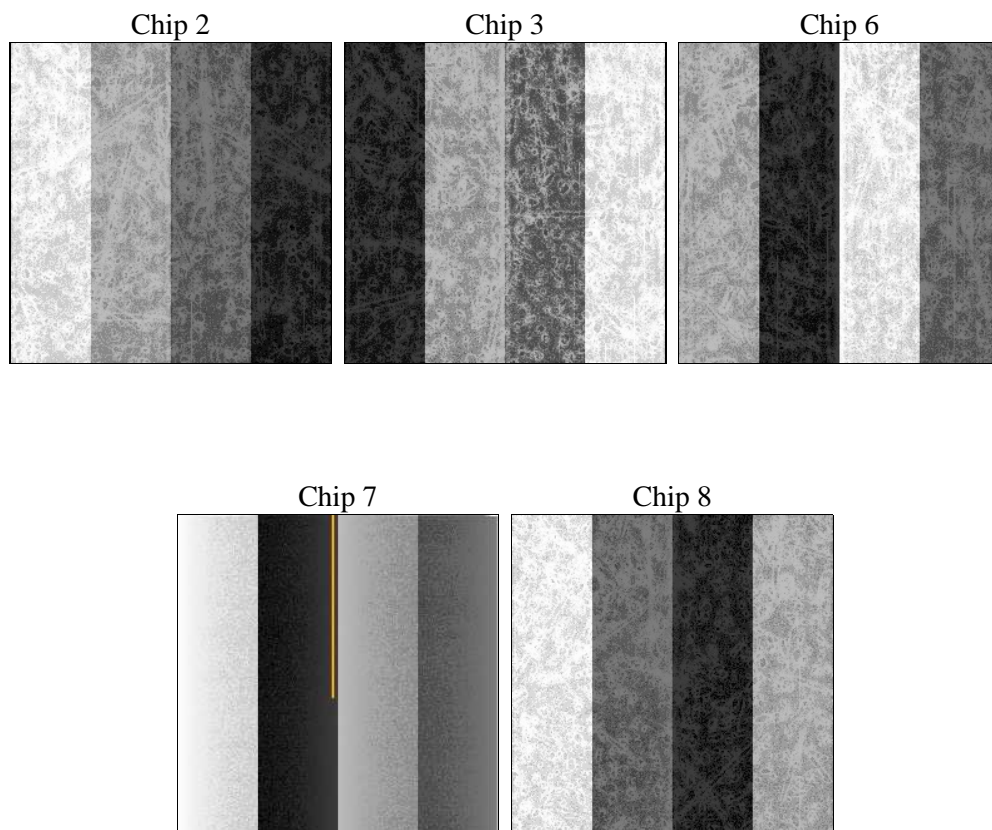
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5848.018000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 6029.5000463724 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime2 | 6029.5000463724 | Sum of GTIs [s] |
| date | 2012-04-23T08:55:42 | Date and time of file creation | ontime3 | 6029.5000463724 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 6029.5000463724 | Sum of GTIs [s] |
| | | | ontime7 | 6029.5000463724 | Sum of GTIs [s] |
| | | | ontime8 | 6026.3590560555 | Sum of GTIs [s] |
| | | | l1events | 390785 | Number of level 1 events |

2.1.4 Events

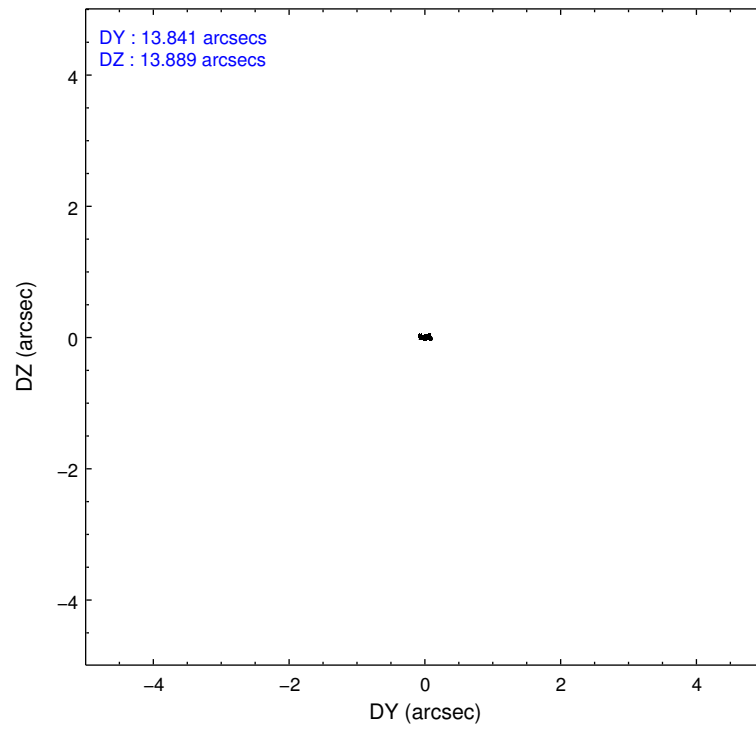
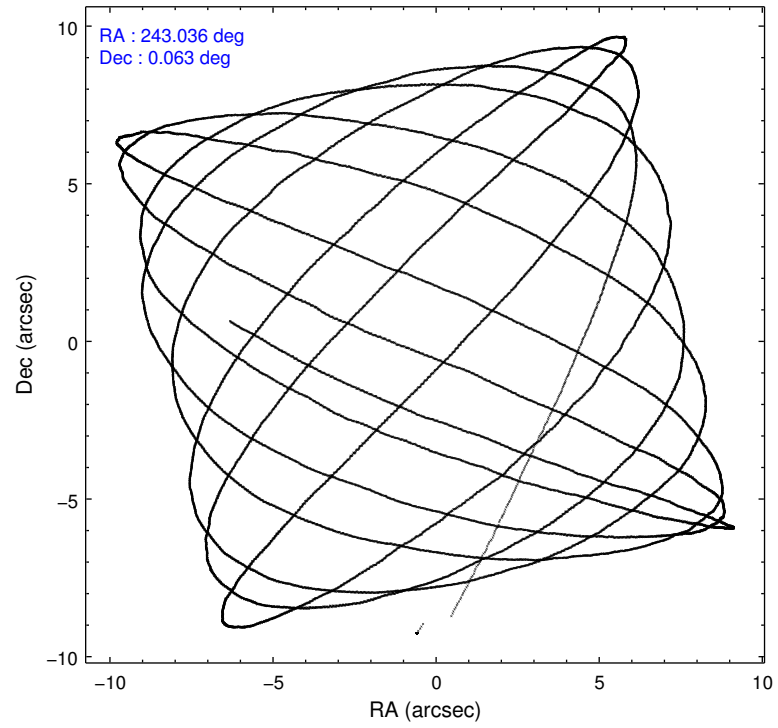
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 68267 | 67165 | 69888 | 95849 | 89616 |
| rejected events | 61845 | 59977 | 62672 | 63344 | 73467 |
| rejected % | 90% | 89% | 89% | 66% | 81% |

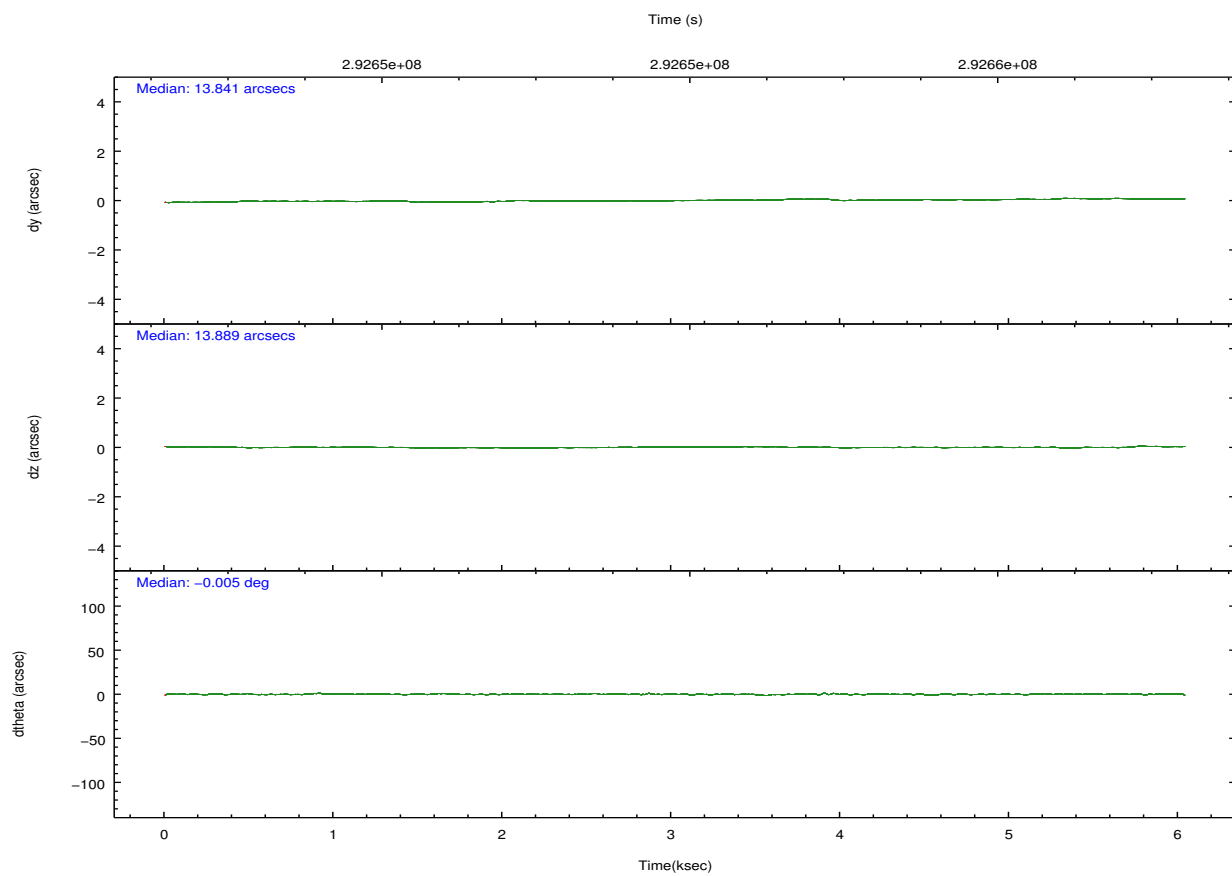
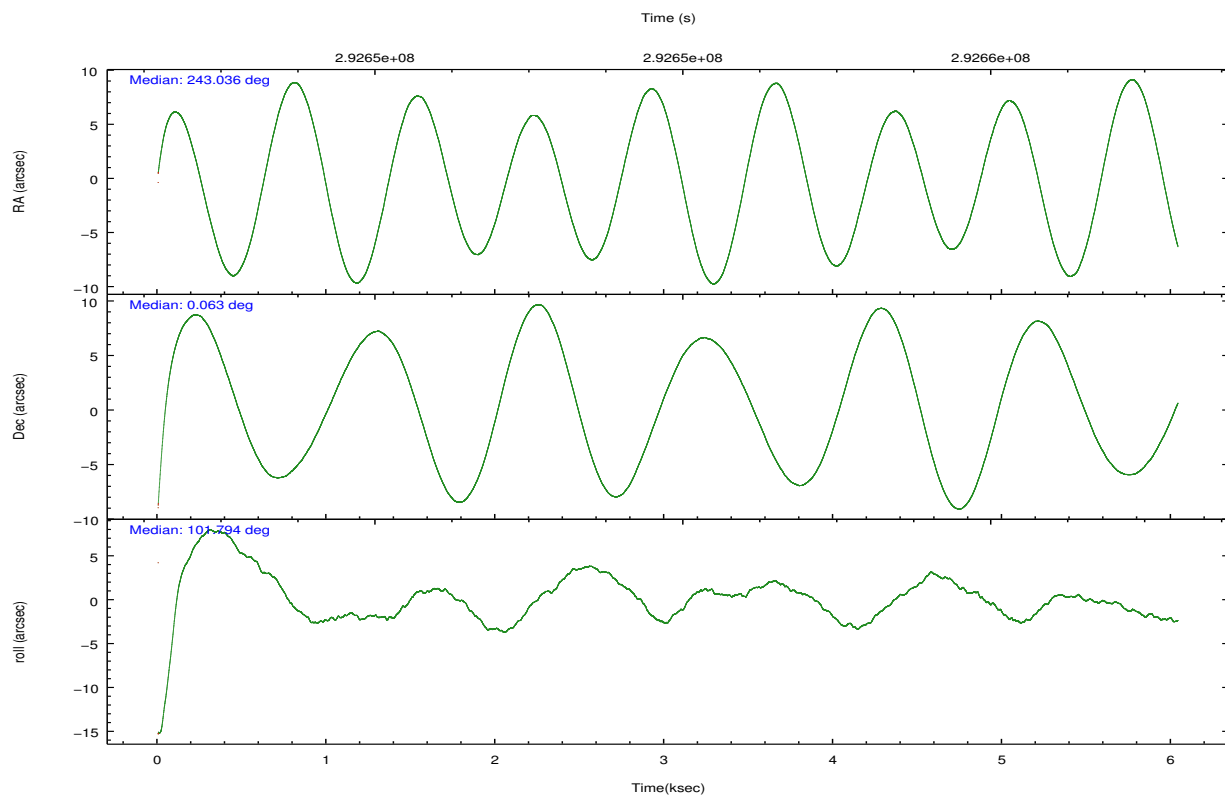
| | ccd 2 | ccd 3 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 3400 | 3938 | 3485 | 3636 | 6248 |
| | 4% | 5% | 4% | 3% | 6% |
| grade 1 events | 42 | 59 | 44 | 100 | 83 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1668 | 1627 | 1832 | 7964 | 4444 |
| | 2% | 2% | 2% | 8% | 4% |
| grade 3 events | 742 | 796 | 787 | 3438 | 2022 |
| | 1% | 1% | 1% | 3% | 2% |
| grade 4 events | 749 | 757 | 821 | 3369 | 1925 |
| | 1% | 1% | 1% | 3% | 2% |
| grade 5 events | 2561 | 3079 | 3281 | 8932 | 4296 |
| | 3% | 4% | 4% | 9% | 4% |
| grade 6 events | 1238 | 1488 | 1772 | 21259 | 5096 |
| | 1% | 2% | 2% | 22% | 5% |
| grade 7 events | 57867 | 55421 | 57866 | 47151 | 65502 |
| | 84% | 82% | 82% | 49% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-23678 | ACIS-23678 | 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 | 243.053867 | 243.0354015964521 | CCD I2 on | O1 | Y |
| [deg] Pointing Dec | 0.042583 | 0.06271034864390929 | CCD I3 on | O2 | Y |
| [deg] Pointing Roll | 101.638909 | 101.7955326795764 | CCD S0 on | N | N |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | CCD S1 on | N | N |
| [mm] SIM defocus | 0 | 0.001444936568705701 | CCD S2 on | O4 | Y |
| [mm] SIM translation stage pos | -190.132523 | -190.1425803651734 | CCD S3 on | Y | Y |
| [mm] SIM translation stage offset | 0 | 0.01005778216563158 | CCD S4 on | O3 | Y |
| [s] Observation start time (MET) | 292651077.184000 | 292649421.86615 | CCD S5 on | N | N |
| Observation start date | 2007-04-11T03:56:52 | 2007-04-11T03:30:21 | Number of optional ACIS chips dropped | 0 | 0 |
| [s] Observation end time (MET) | 292656925.184000 | 292657147.80401 | On-chip summing requested | N | N |
| Observation end date | 2007-04-11T05:34:20 | 2007-04-11T05:39:07 | Subarray requested | NONE | NONE |
| Read mode | TIMED | TIMED | Alternating exposures requested | N | N |
| | | | [s] Primary exposure time | 0.000000 | 3.1 |

2.3 Aspect



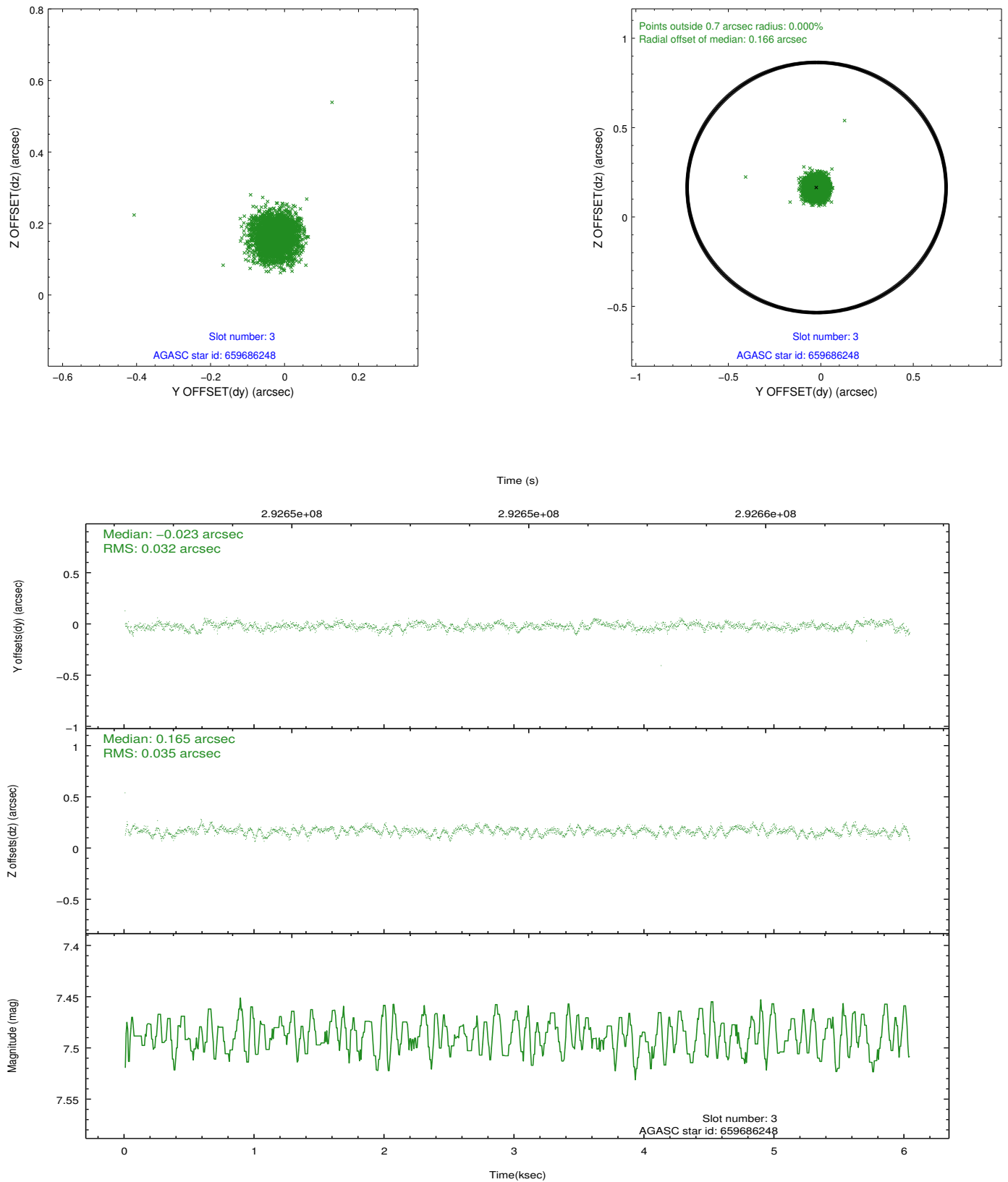


Slot Statistics

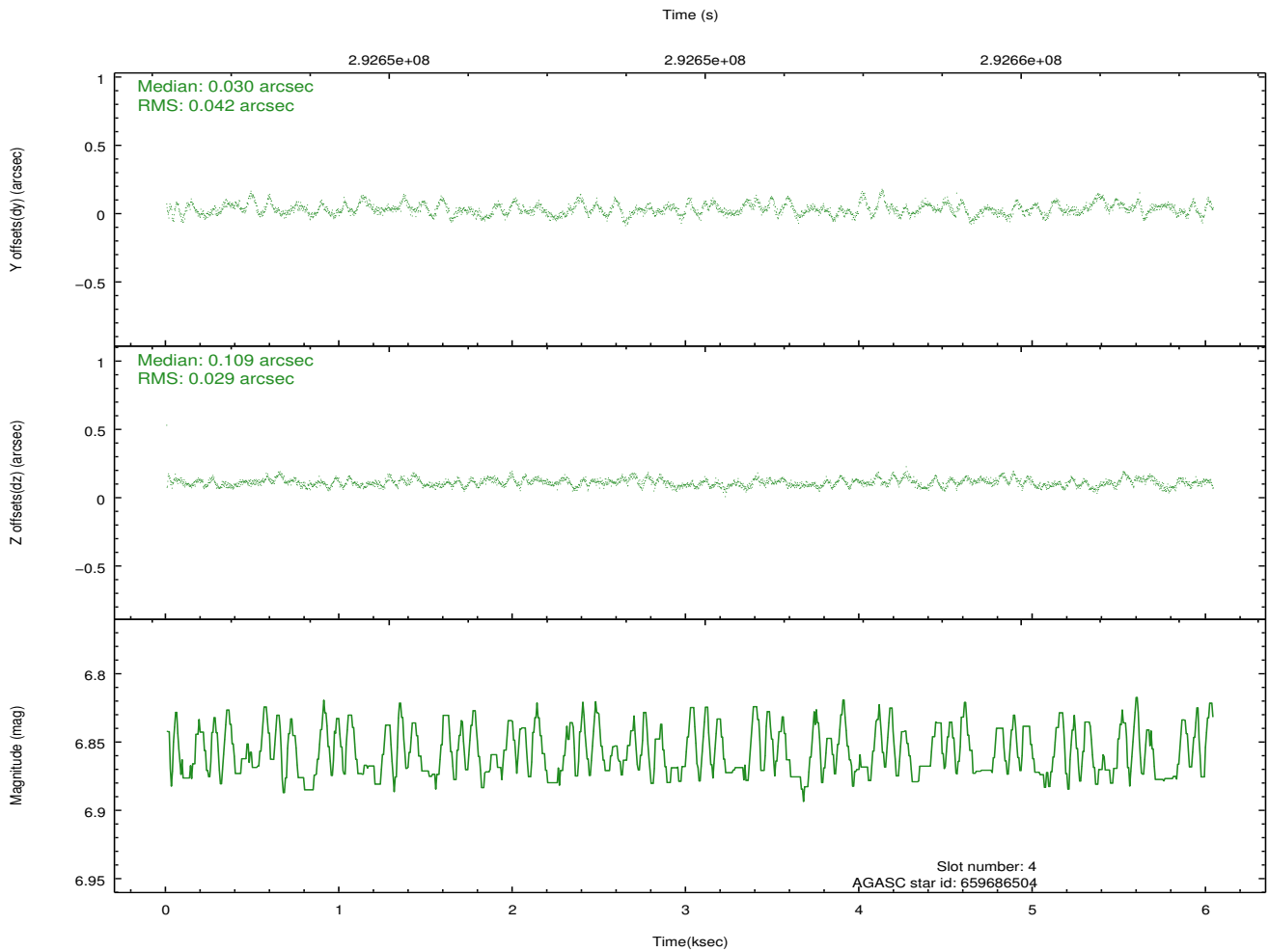
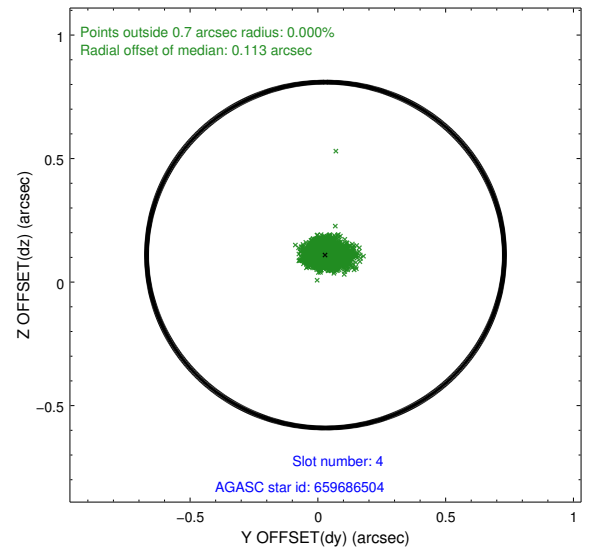
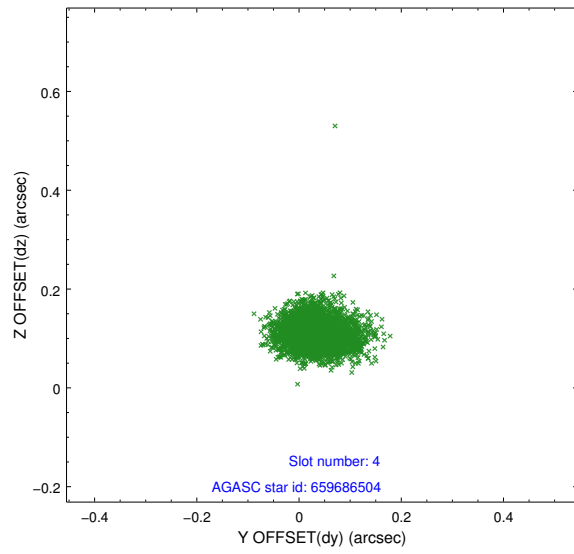
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-1 | 7.19 | 1473 | 0.052 | -0.017 | 0.007 | 0.012 | 0.000000 | 0.000000 | 929.29 | -1730.84 |
| 1 | FID | ACIS-S-4 | 7.19 | 1473 | 0.147 | -0.009 | 0.006 | 0.010 | 0.000000 | 0.000000 | 2147.34 | 172.30 |
| 2 | FID | ACIS-S-5 | 7.23 | 1471 | -0.227 | 0.038 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1818.59 | 167.08 |
| 3 | GUIDE | 659686248 | 7.49 | 2946 | -0.023 | 0.165 | 0.049 | 0.078 | 243.659982 | -0.398750 | -1996.27 | -1816.30 |
| 4 | GUIDE | 659686504 | 6.86 | 2946 | 0.030 | 0.109 | 0.052 | 0.087 | 243.296743 | -0.519136 | -2157.50 | -448.24 |
| 5 | GUIDE | 659686592 | 9.25 | 2941 | 0.090 | -0.192 | 0.090 | 0.152 | 242.703035 | -0.550476 | -1836.60 | 1667.89 |
| 6 | GUIDE | 659690104 | 8.39 | 2945 | 0.053 | -0.213 | 0.067 | 0.108 | 243.001808 | -0.177171 | -737.28 | 343.96 |
| 7 | GUIDE | 48104392 | 9.05 | 2930 | -0.153 | 0.133 | 0.077 | 0.127 | 243.009336 | 0.658598 | 2203.68 | -289.55 |

2.4 Star Slots

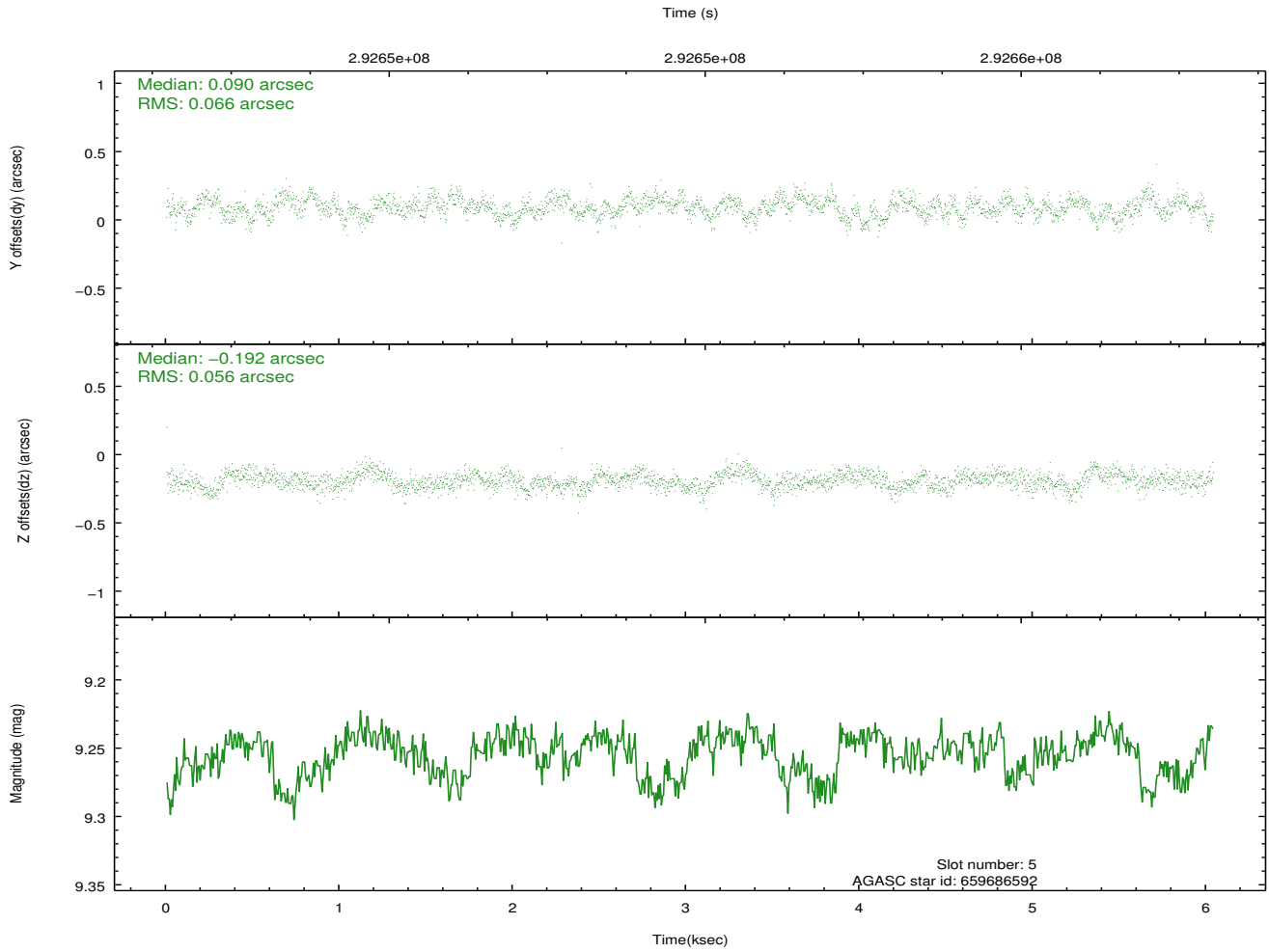
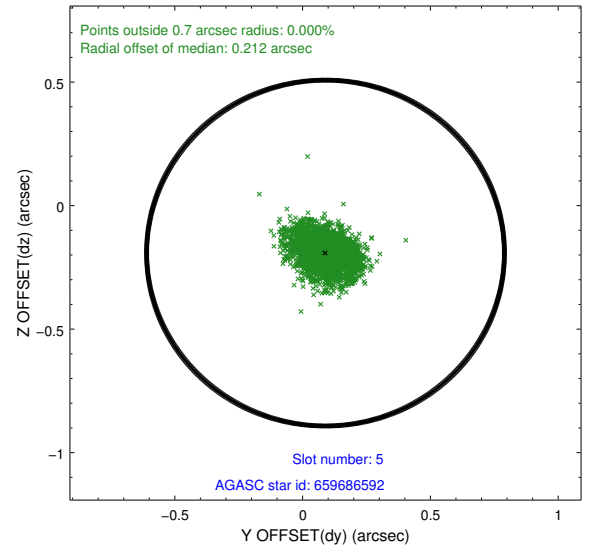
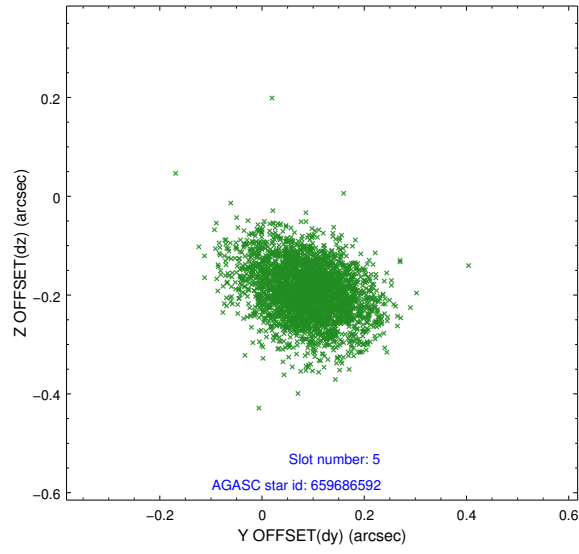
2.4.1 Slot 3



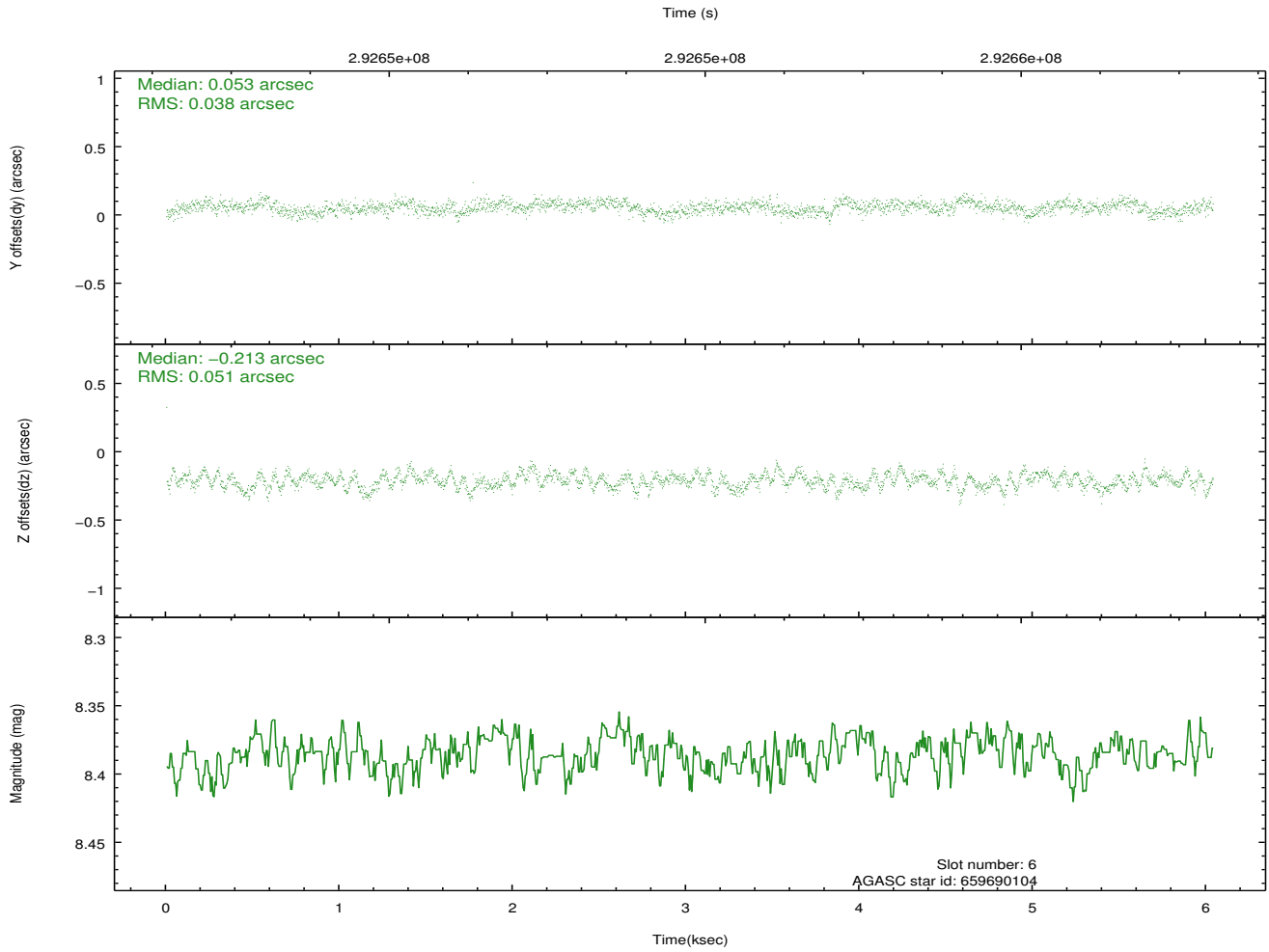
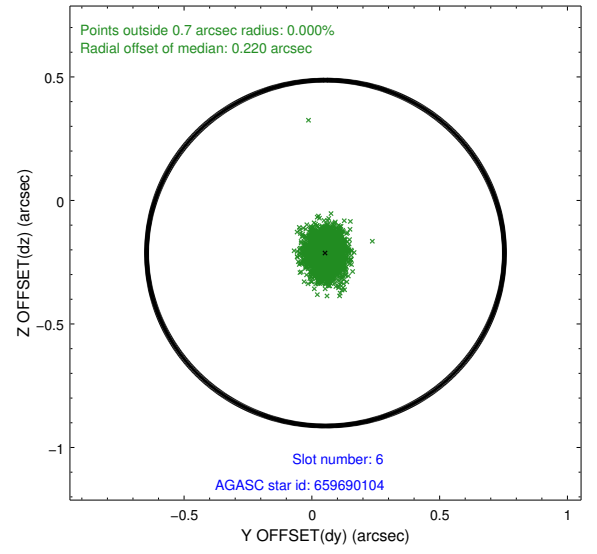
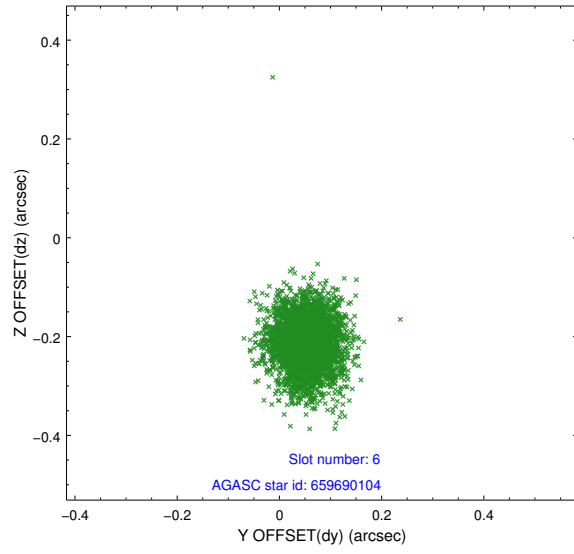
2.4.2 Slot 4



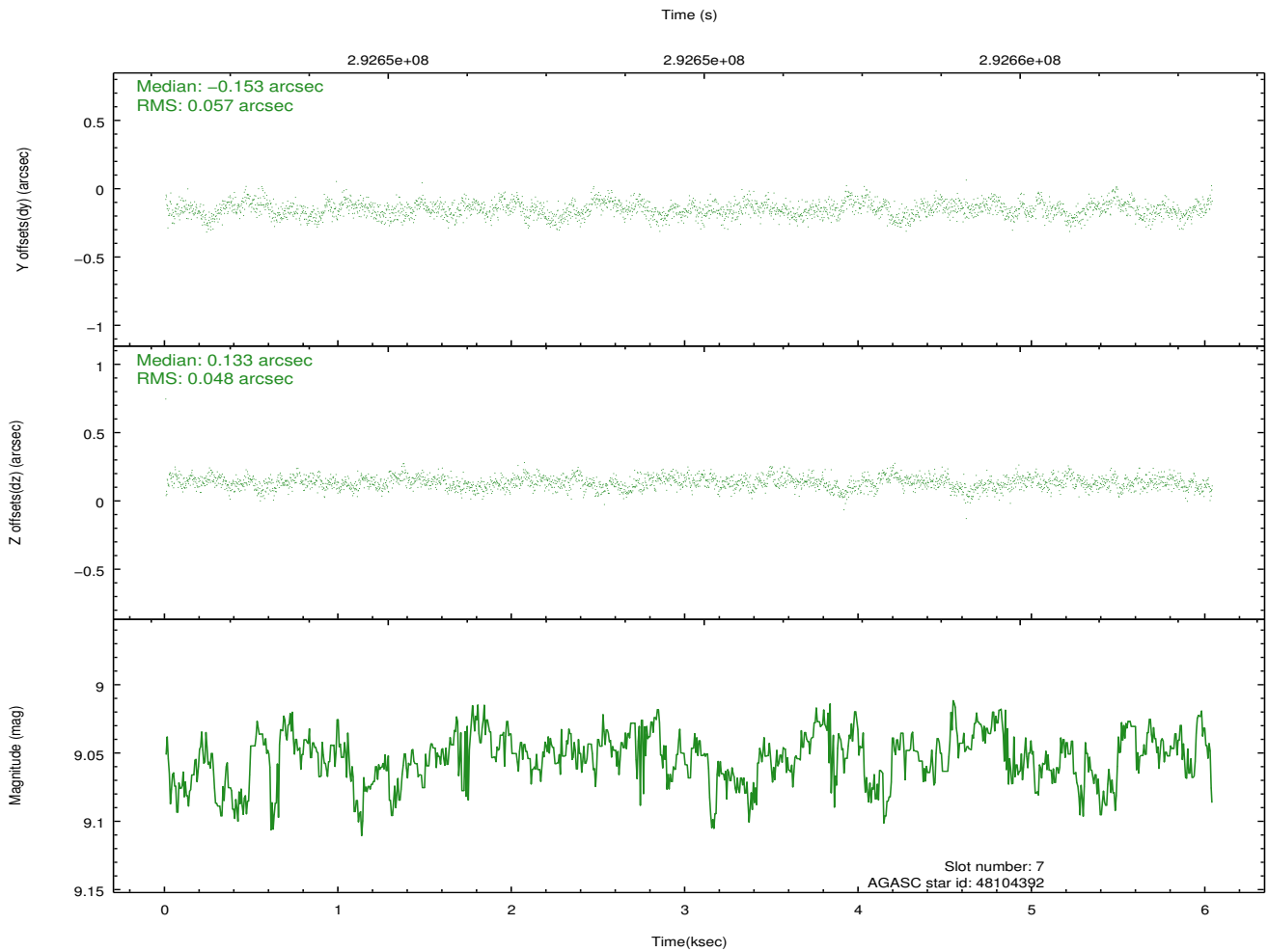
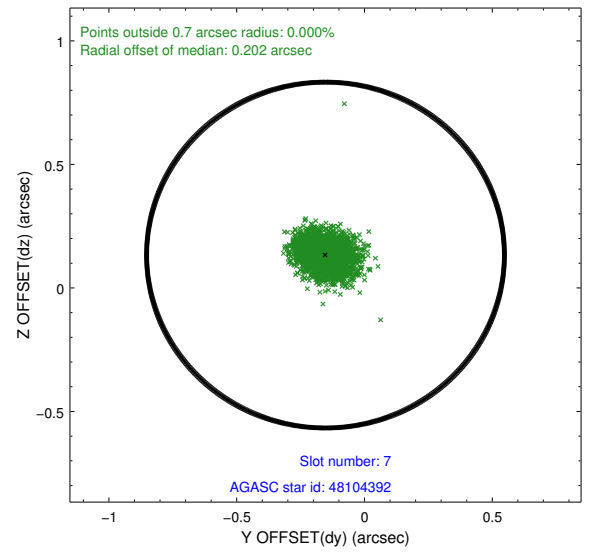
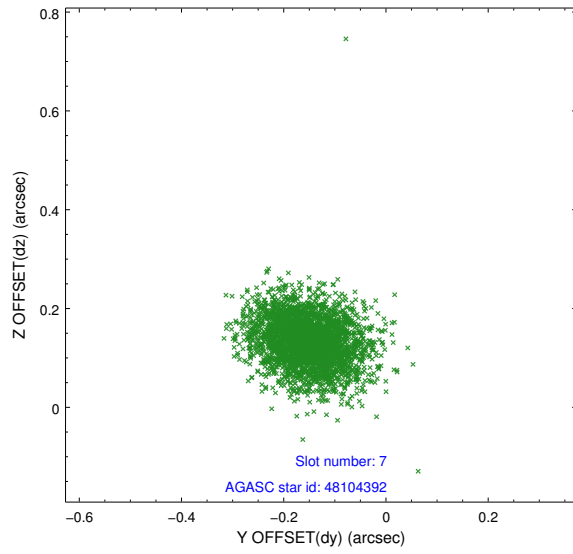
2.4.3 Slot 5



2.4.4 Slot 6

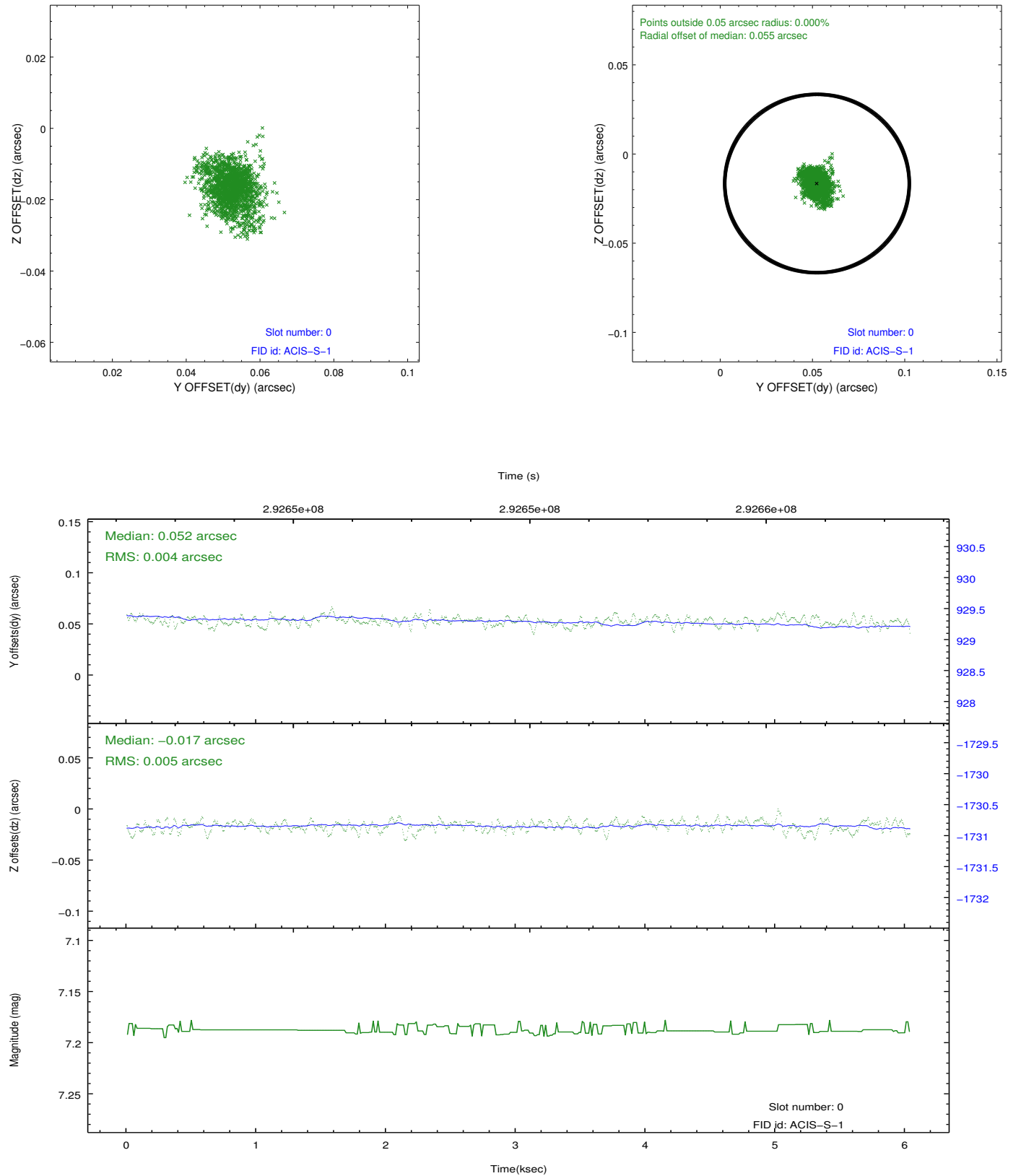


2.4.5 Slot 7

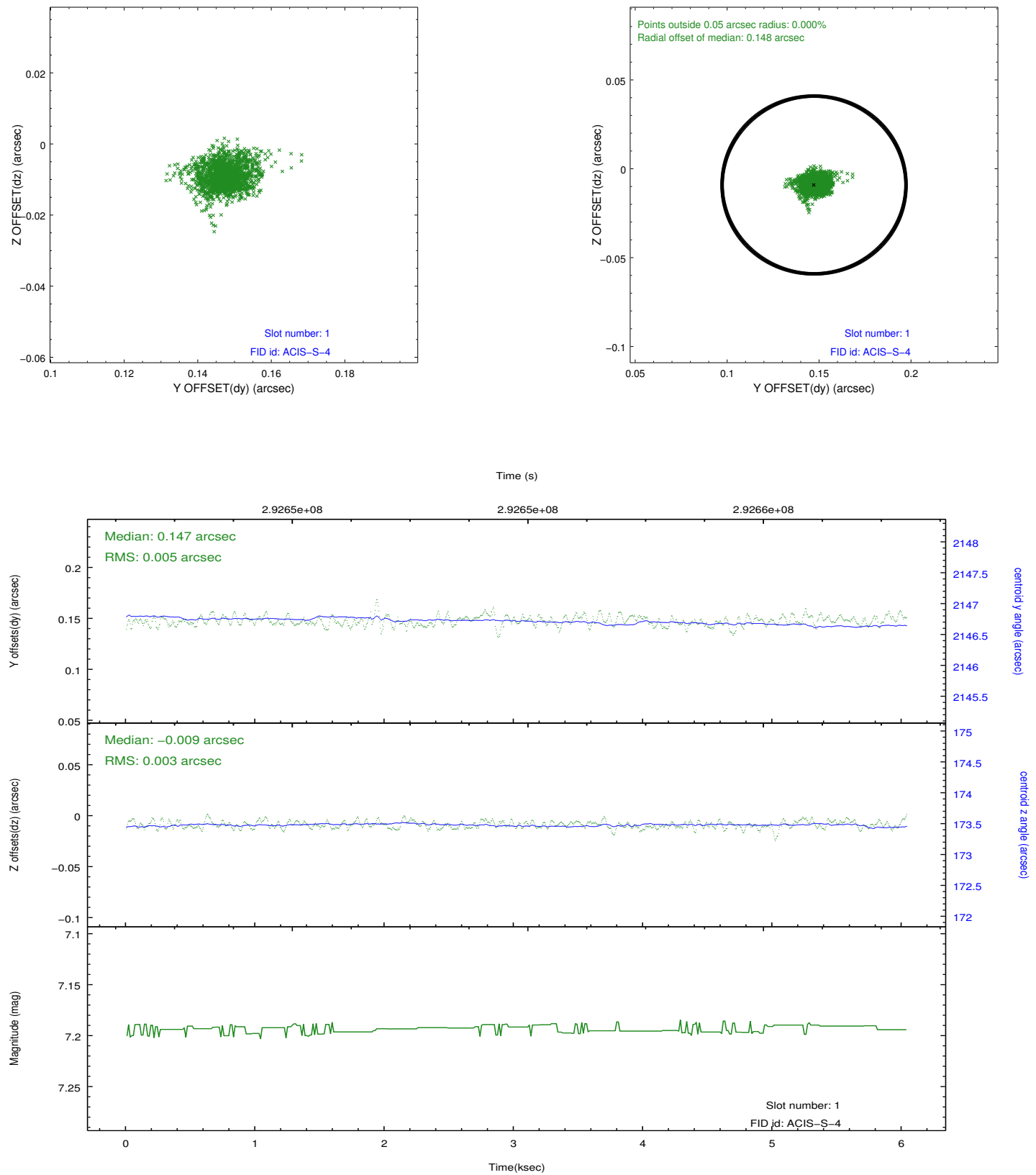


2.5 FID Slots

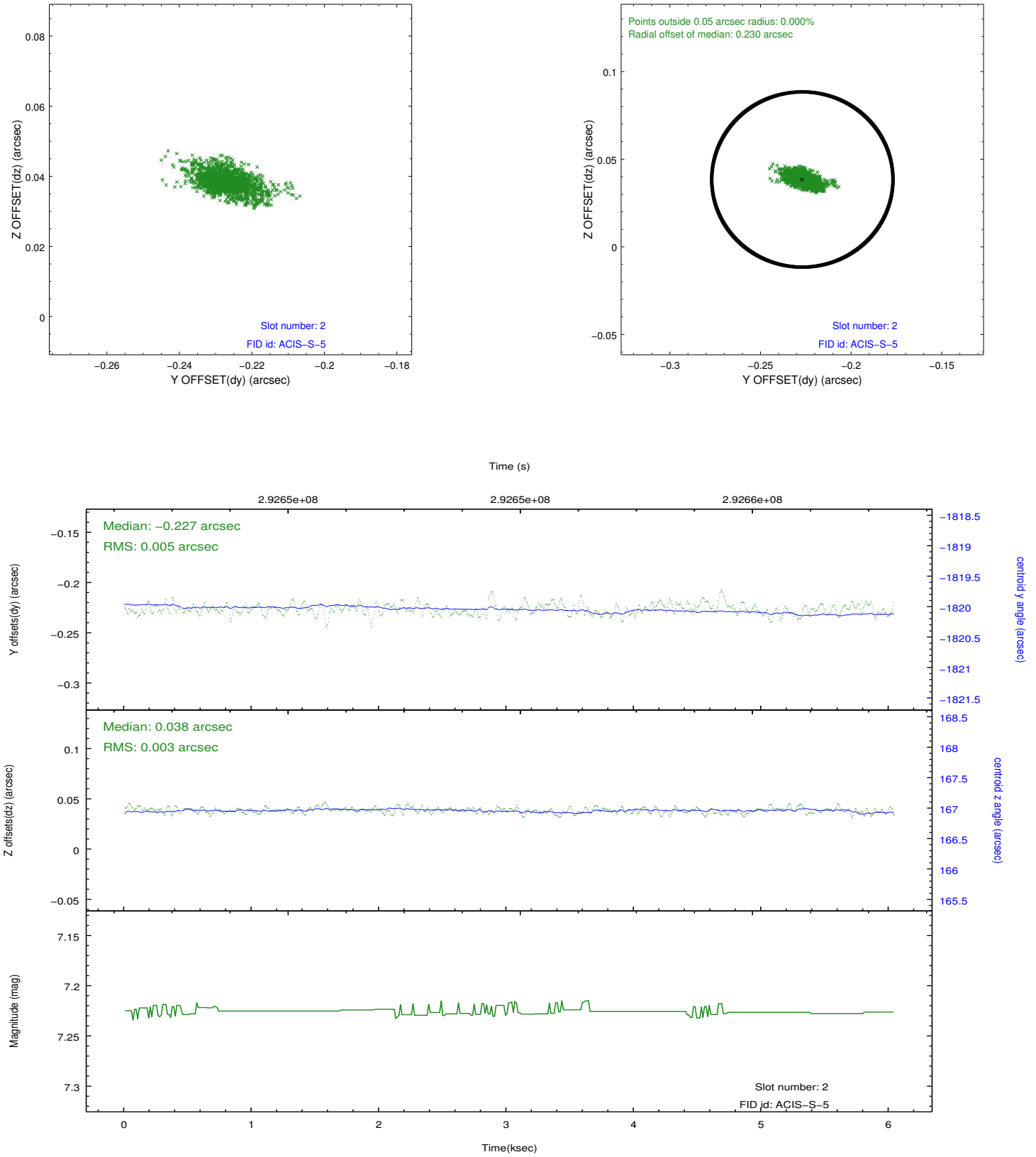
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.02950004 |

A.2 Comments

Joint Proposal: NRAO