

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5637 - L2 Version 002
Chandra X-Ray Center

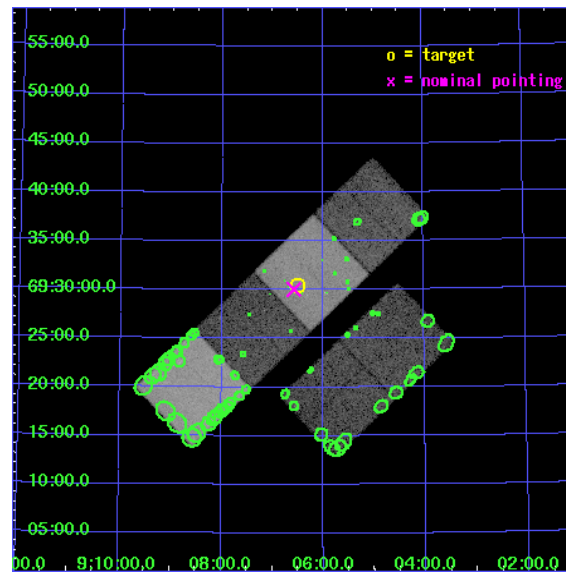
L2 Processing Date : Mar 11 2006

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

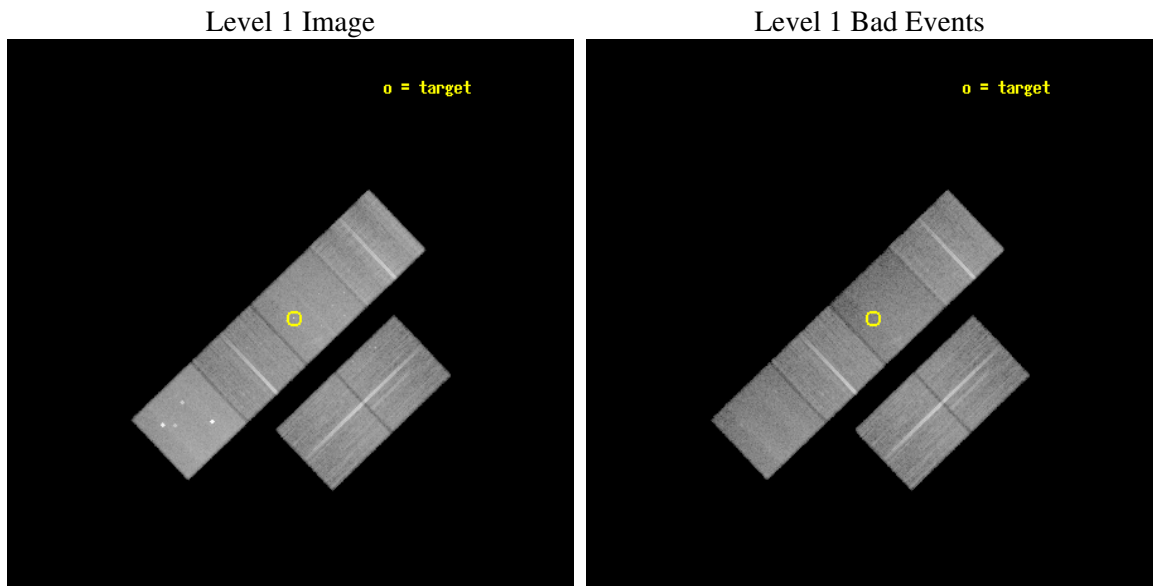
| | |
|----------|---|
| seq_num | 701060 |
| obs_id | 5637 |
| title | An X-ray Exposure of the Highest-redshift Blazar: IC/CMB Jets |
| observer | Prof. Roger Romani |
| object | Q0906+6930 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 136.627917 |
| dec_targ | 69.508556 |
| ra_nom | 136.64418815511 |
| dec_nom | 69.500763860918 |
| roll_nom | 316.25287280967 |
| revision | 2 |
| ontime | 30172.758927286 |
| livetime | 29790.693285894 |
| ontime2 | 30175.999887586 |
| ontime3 | 30175.999887586 |
| ontime5 | 30175.999887586 |
| ontime6 | 30175.999887586 |
| ontime7 | 30172.758927286 |
| ontime8 | 30172.758927286 |
| l2events | 277897 |



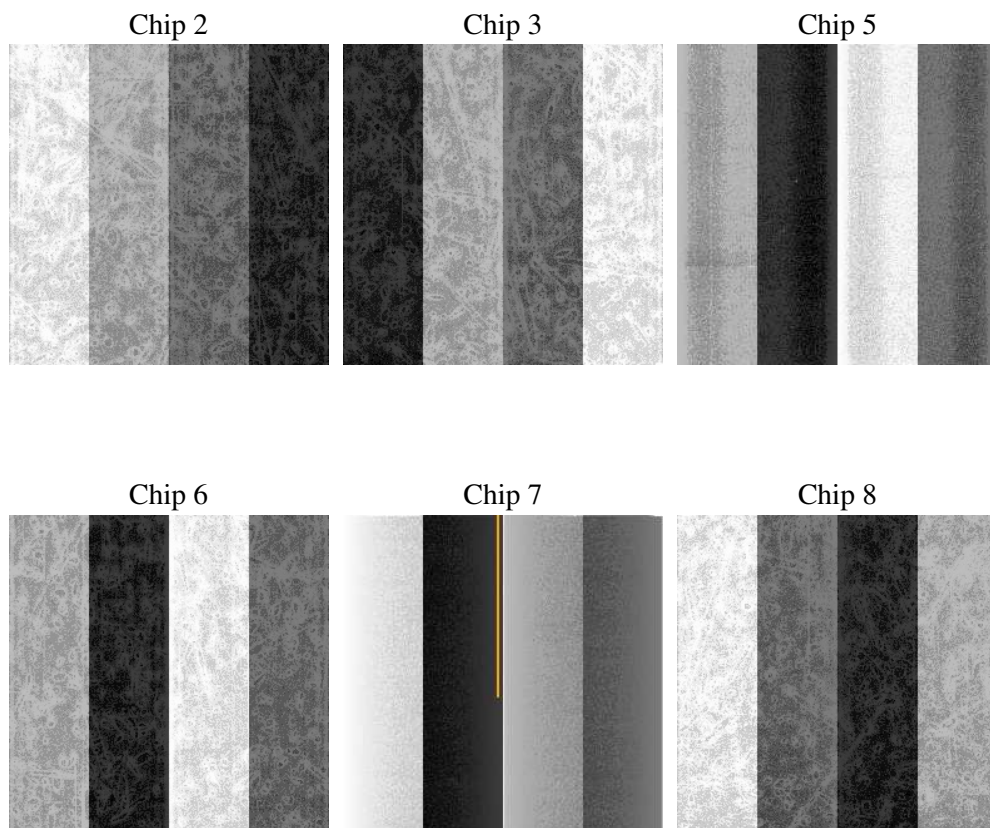
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.1 |
| caldsver | 3.2.1 |
| date | 2006-03-12T01:21:20 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 30000.000000 |
| ontime | 30212.603061527 |
| ontime2 | 30215.843991935 |
| ontime3 | 30215.844021827 |
| ontime5 | 30215.844021827 |
| ontime6 | 30215.844021827 |
| ontime7 | 30212.603061527 |
| ontime8 | 30212.603061527 |
| l1events | 1324636 |

2.1.4 Events

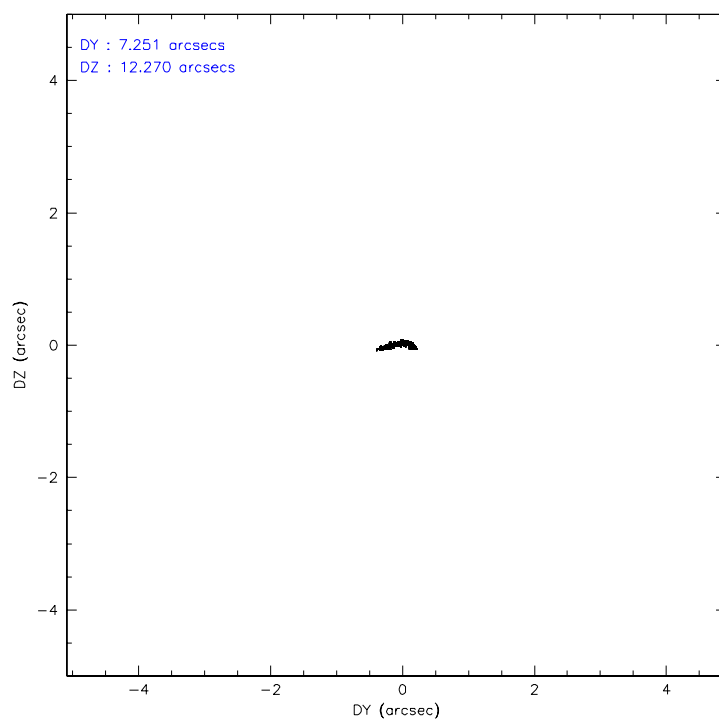
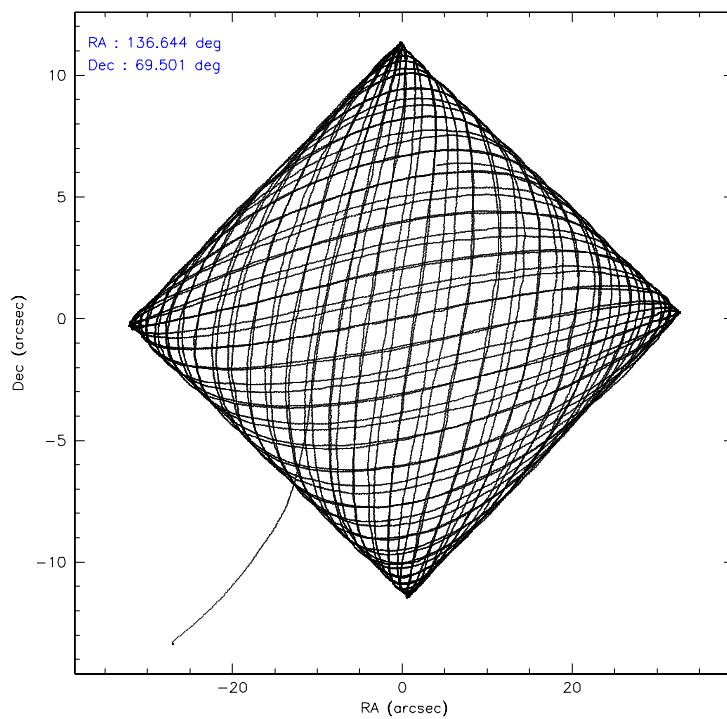
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 207945 | 187788 | 271621 | 194181 | 219602 | 243499 |
| rejected events | 188886 | 169809 | 138854 | 174312 | 127534 | 188032 |
| rejected % | 90% | 90% | 51% | 89% | 58% | 77% |

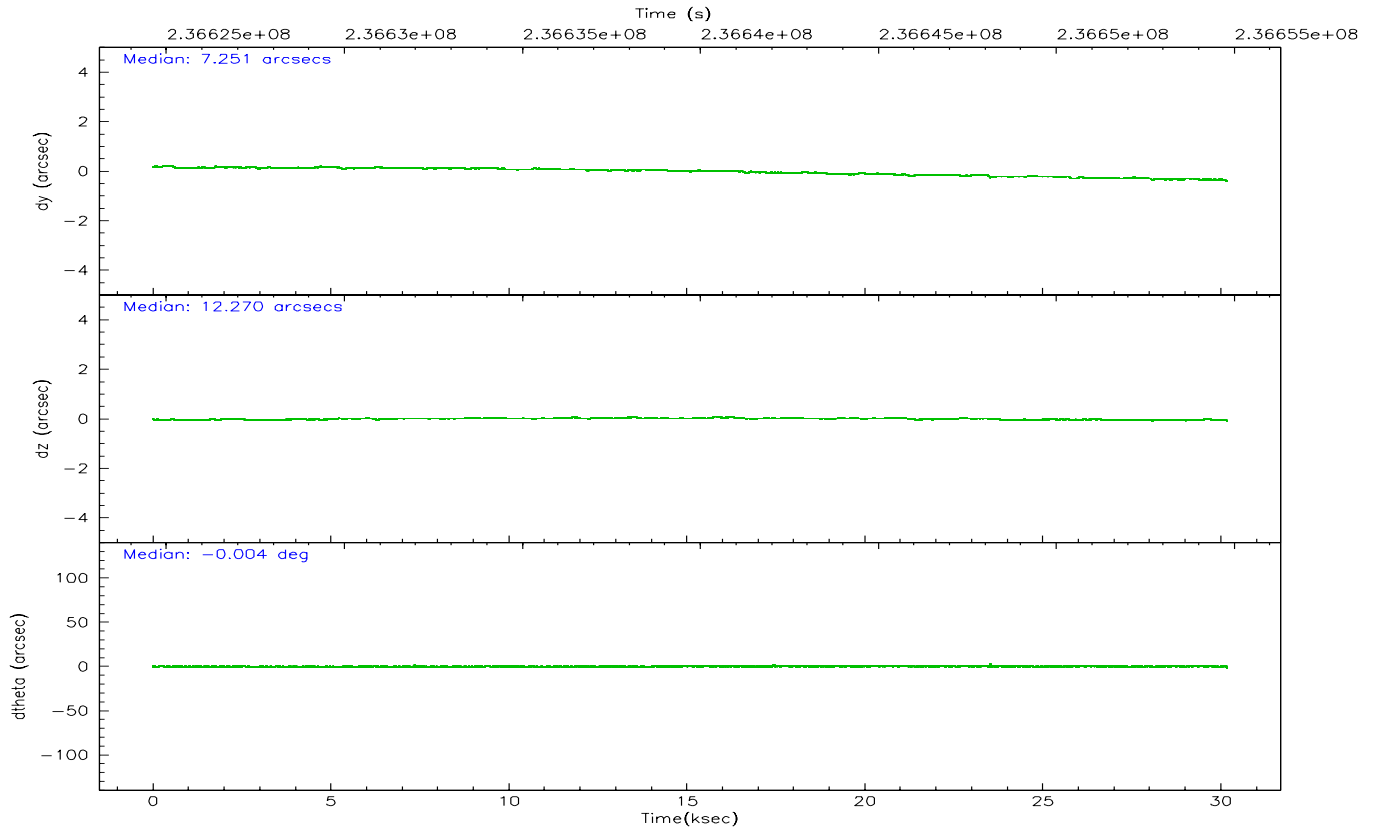
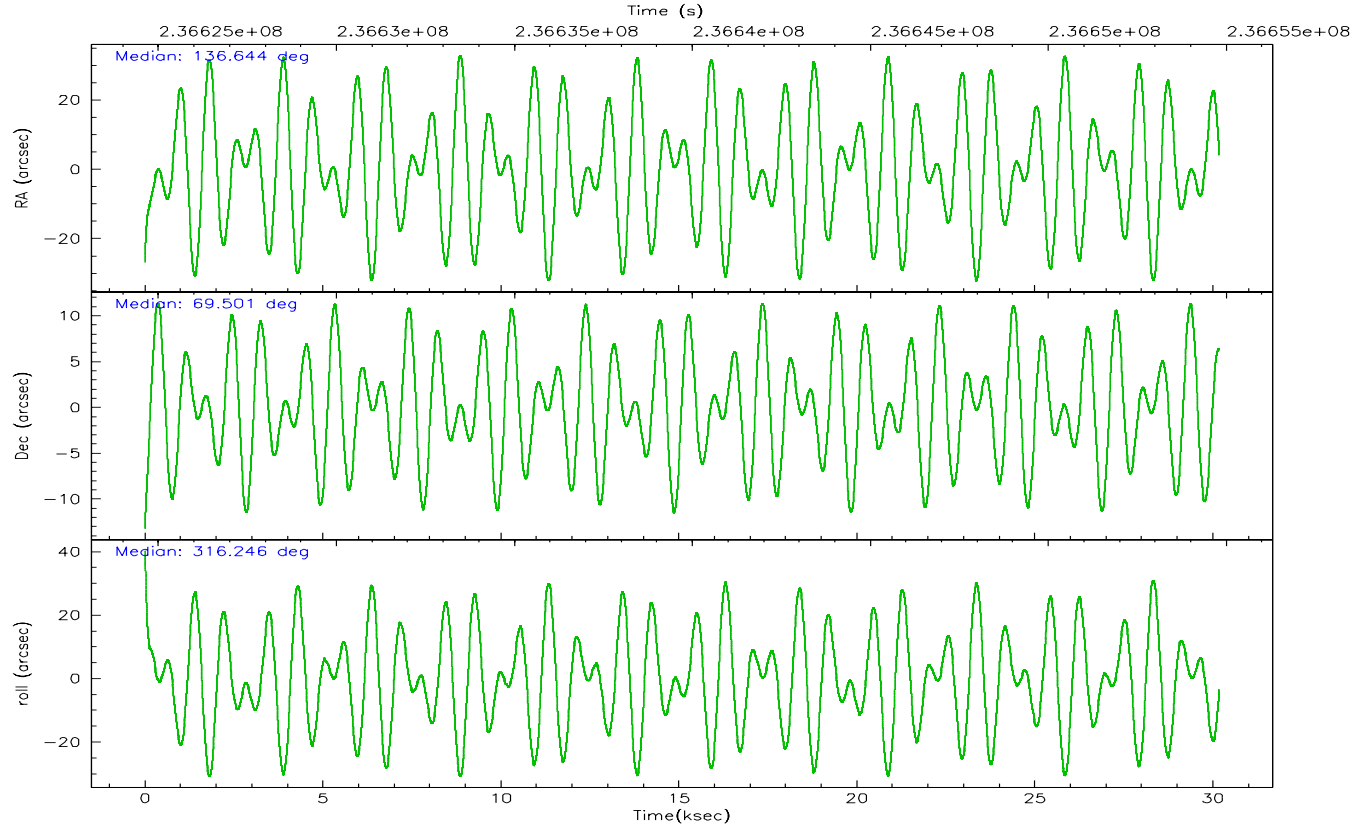
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 6667 | 6483 | 13595 | 6924 | 5459 | 16786 |
| | 3% | 3% | 5% | 3% | 2% | 6% |
| grade 1 events | 93 | 98 | 250 | 83 | 136 | 181 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4640 | 3749 | 40927 | 4300 | 23098 | 12700 |
| | 2% | 1% | 15% | 2% | 10% | 5% |
| grade 3 events | 2072 | 2065 | 3167 | 2278 | 5343 | 5759 |
| | 0% | 1% | 1% | 1% | 2% | 2% |
| grade 4 events | 2126 | 2036 | 3061 | 2199 | 5169 | 5493 |
| | 1% | 1% | 1% | 1% | 2% | 2% |
| grade 5 events | 6566 | 7561 | 14190 | 7848 | 16700 | 11137 |
| | 3% | 4% | 5% | 4% | 7% | 4% |
| grade 6 events | 3578 | 3661 | 72206 | 4202 | 53108 | 14774 |
| | 1% | 1% | 26% | 2% | 24% | 6% |
| grade 7 events | 182203 | 162135 | 124225 | 166347 | 110589 | 176669 |
| | 87% | 86% | 45% | 85% | 50% | 72% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 136.568425 | 136.6441881551137 | Alternating exposures requested | N | N |
| Pointing Dec | 69.506853 | 69.50076386091757 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 316.167210 | 316.2528728096666 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1425803651734 | | | |
| SIM translation stage offset (mm) | 0 | 0.01005778216563158 | | | |
| Observation start time | 236624806.184000 | 236623718.74973 | | | |
| Observation start date | 2005-07-01T17:05:42 | 2005-07-01T16:48:38 | | | |
| Observation end time | 236654806.184000 | 236655454.80118 | | | |
| Observation end date | 2005-07-02T01:25:42 | 2005-07-02T01:37:34 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



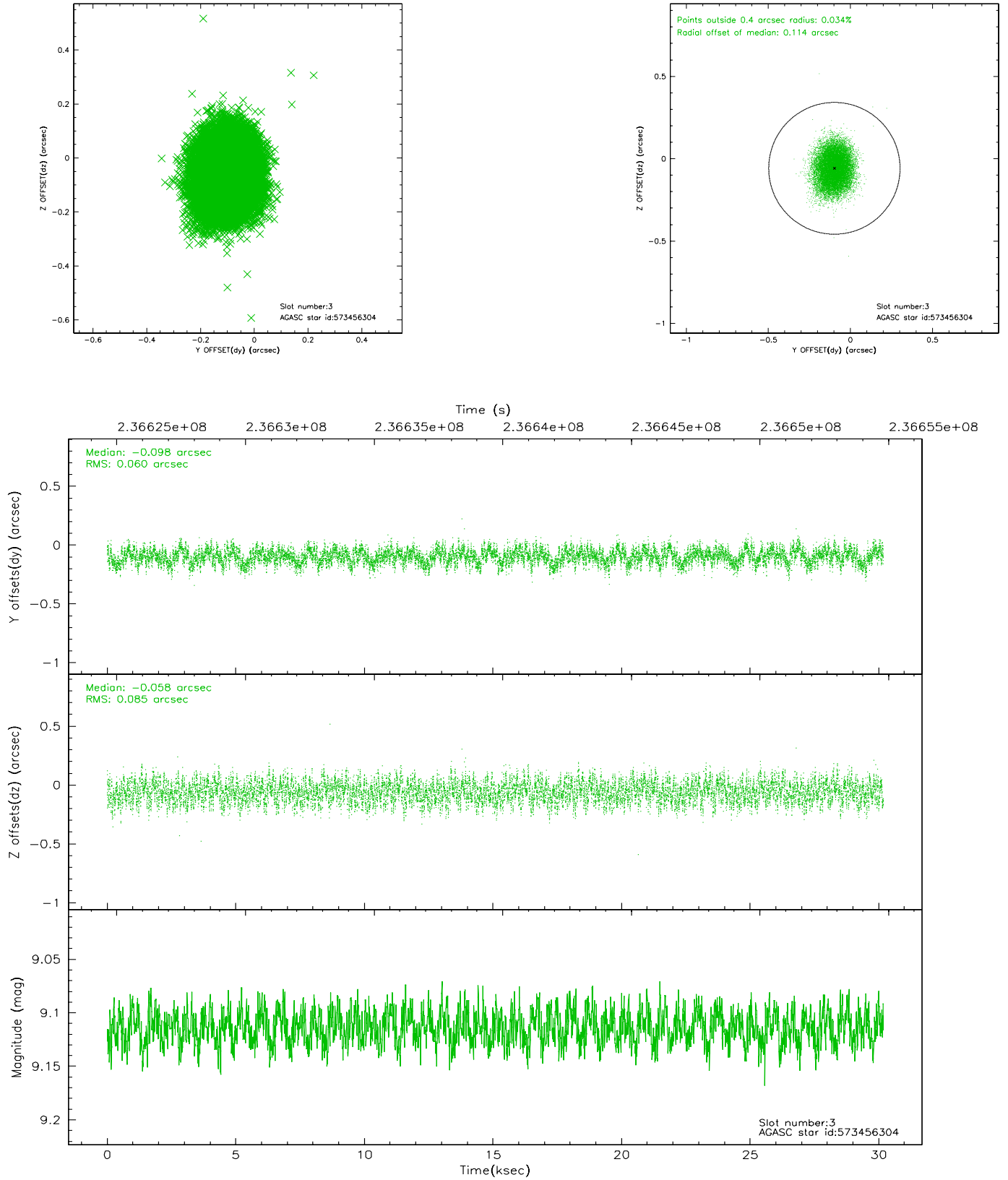


Slot Statistics

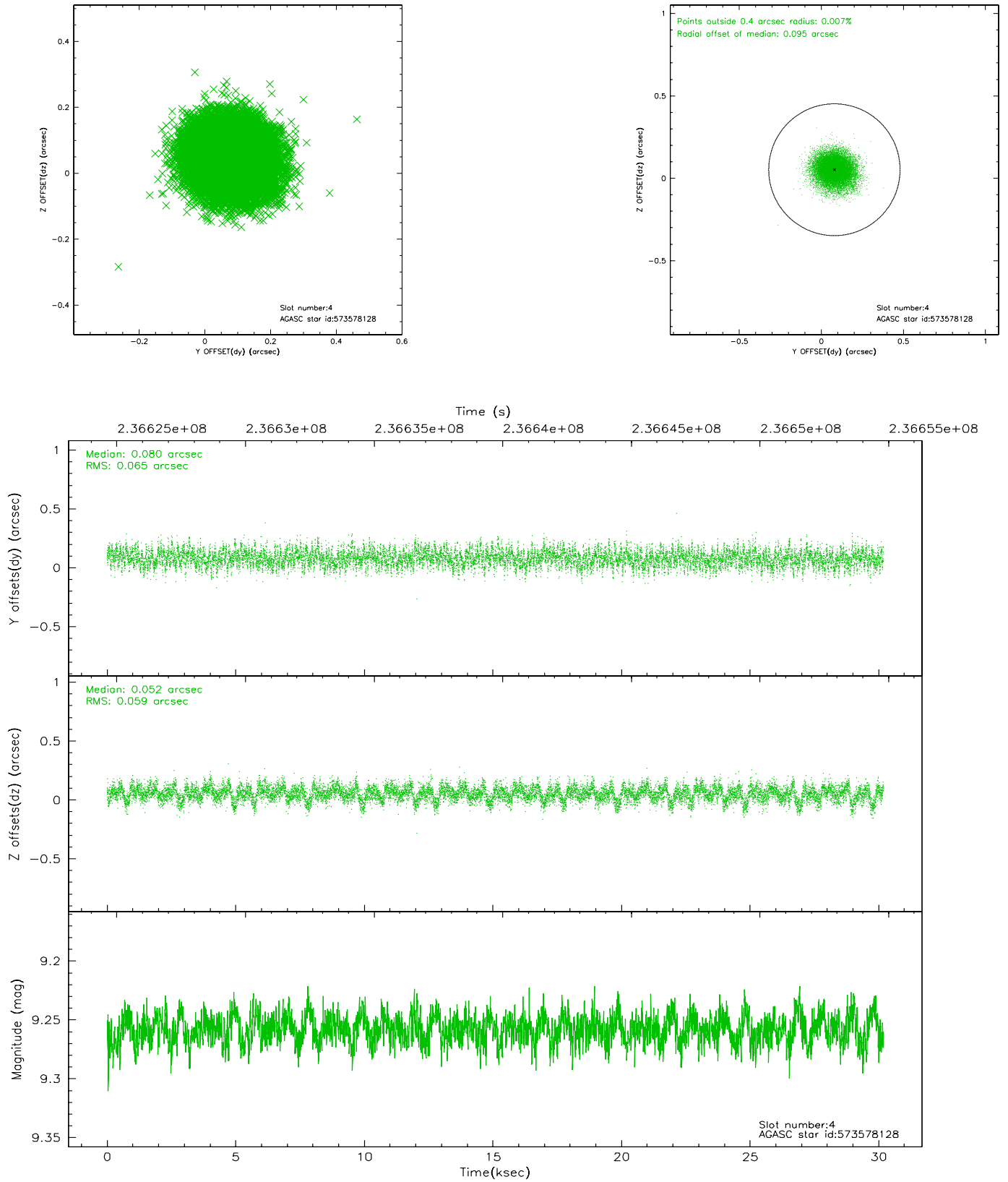
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 7361 | -0.011 | -0.010 | 0.007 | 0.012 | 0.000000 | 0.000000 | -760.00 | -1733.53 |
| 1 | FID | ACIS-S-4 | 7.20 | 7360 | 0.029 | 0.008 | 0.007 | 0.013 | 0.000000 | 0.000000 | 2153.30 | 174.88 |
| 2 | FID | ACIS-S-5 | 7.23 | 7360 | -0.050 | 0.011 | 0.010 | 0.016 | 0.000000 | 0.000000 | -1812.78 | 168.66 |
| 3 | GUIDE | 573456304 | 9.11 | 14713 | -0.098 | -0.058 | 0.112 | 0.174 | 134.615950 | 69.251915 | -1187.33 | -2357.82 |
| 4 | GUIDE | 573578128 | 9.26 | 14710 | 0.080 | 0.052 | 0.093 | 0.151 | 138.875514 | 69.410462 | 2308.81 | 1812.07 |
| 5 | GUIDE | 573578808 | 8.60 | 14711 | 0.026 | -0.077 | 0.065 | 0.106 | 137.585442 | 69.790129 | 199.11 | 1619.27 |
| 6 | GUIDE | 573579960 | 9.19 | 14715 | 0.076 | -0.033 | 0.094 | 0.166 | 136.136306 | 69.025526 | 797.66 | -1633.97 |
| 7 | GUIDE | 573582680 | 5.98 | 14722 | -0.079 | 0.119 | 0.047 | 0.075 | 137.271195 | 69.210753 | 1382.81 | -143.12 |

2.4 Star Slots

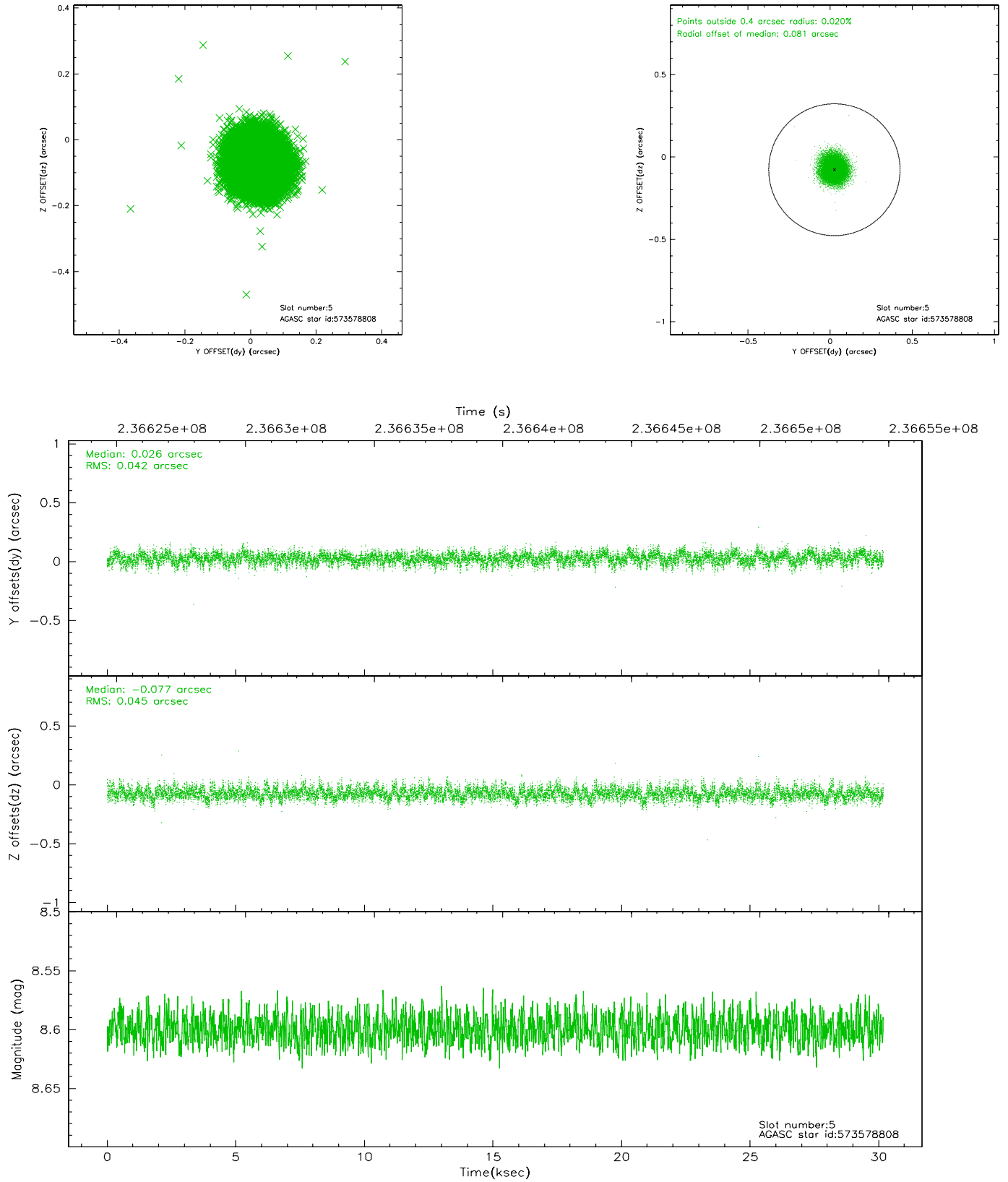
2.4.1 Slot 3



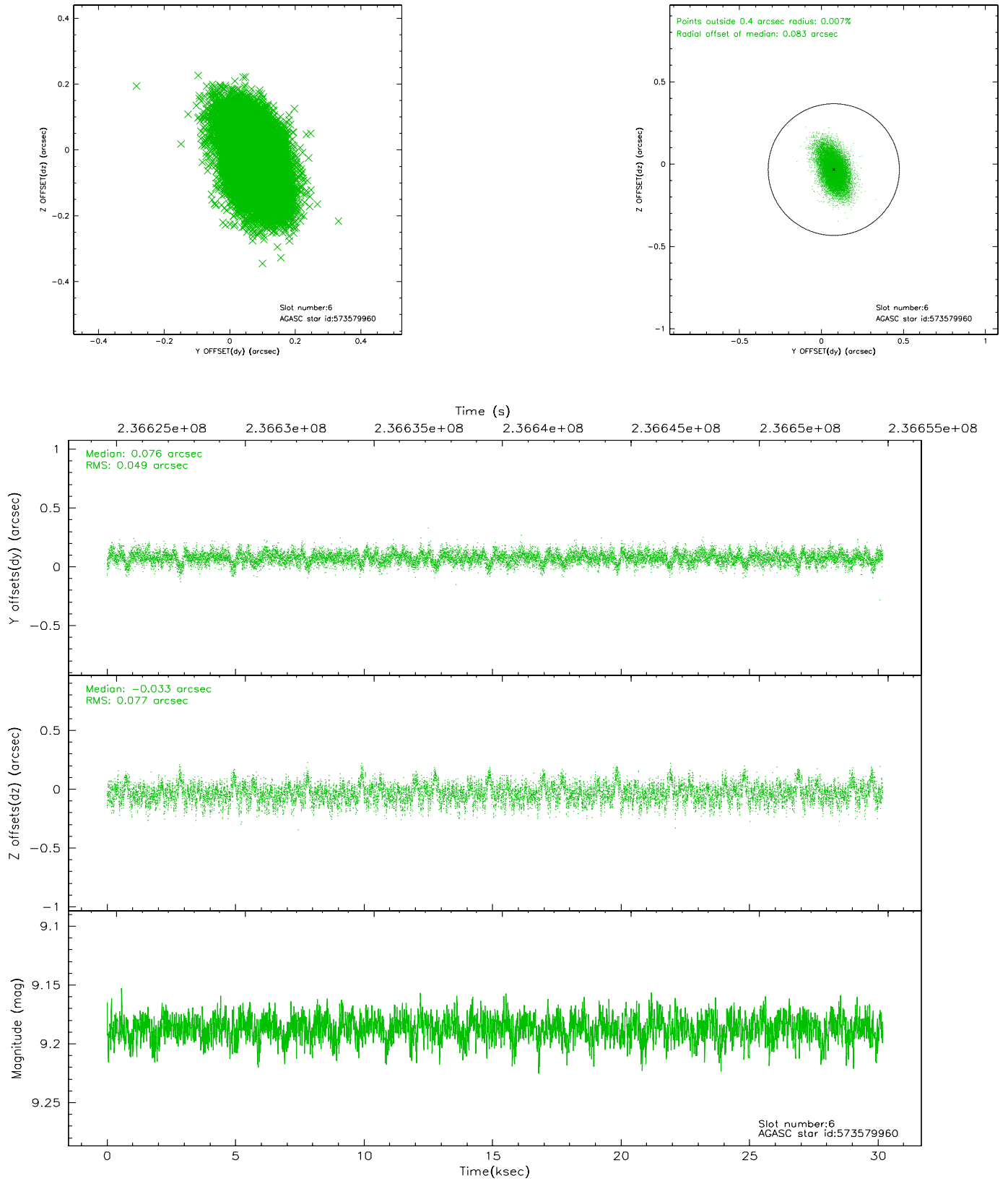
2.4.2 Slot 4



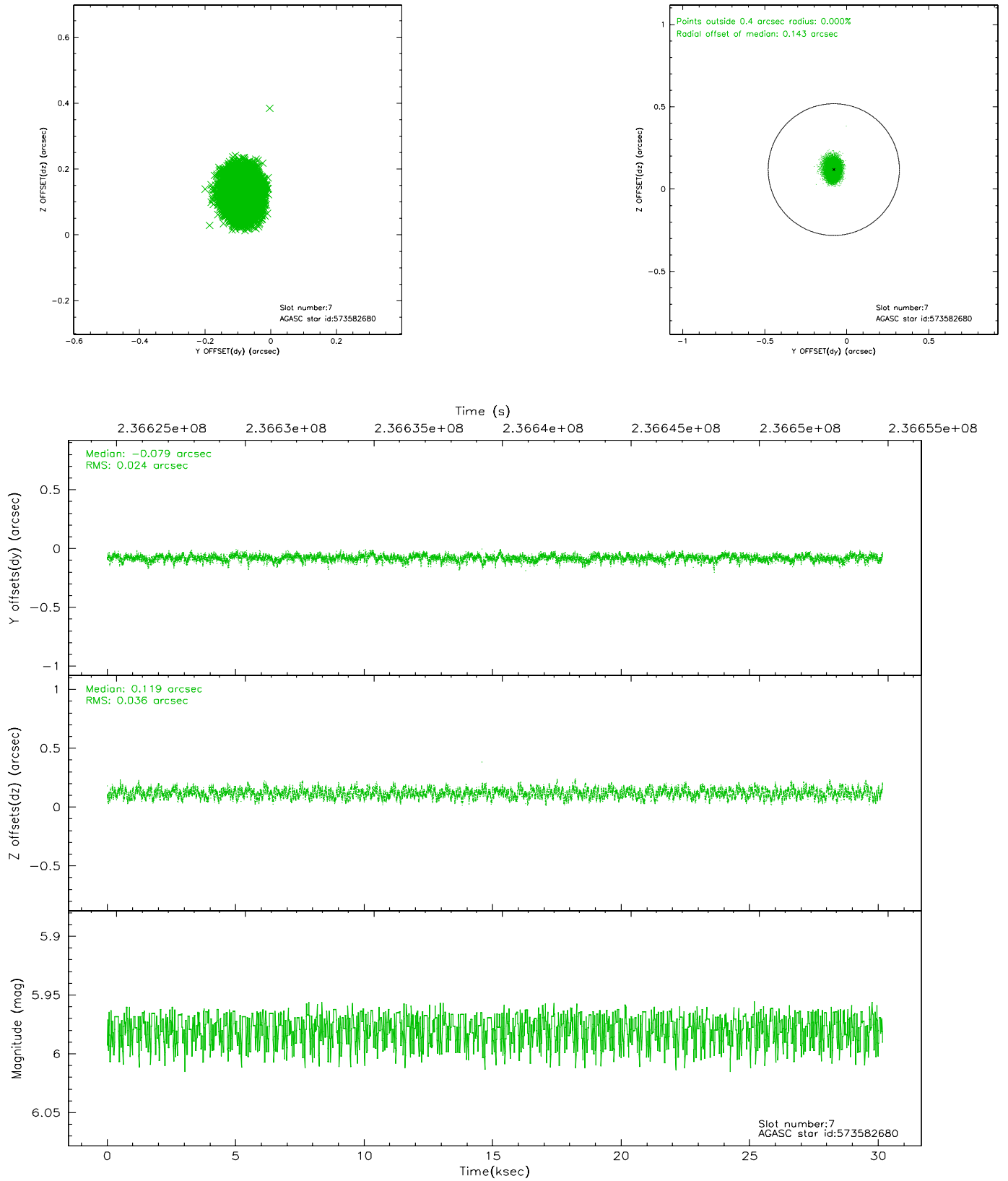
2.4.3 Slot 5



2.4.4 Slot 6

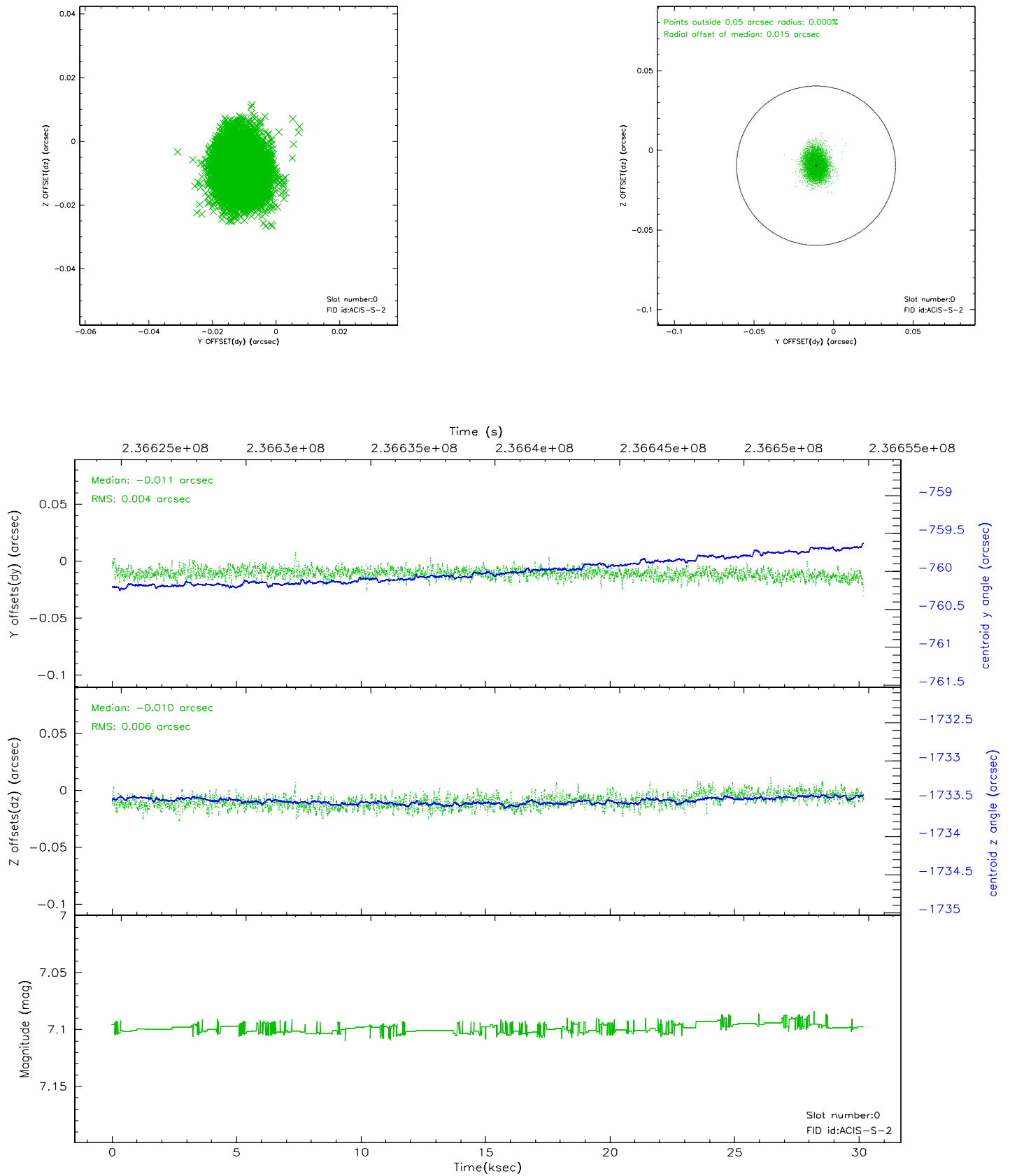


2.4.5 Slot 7

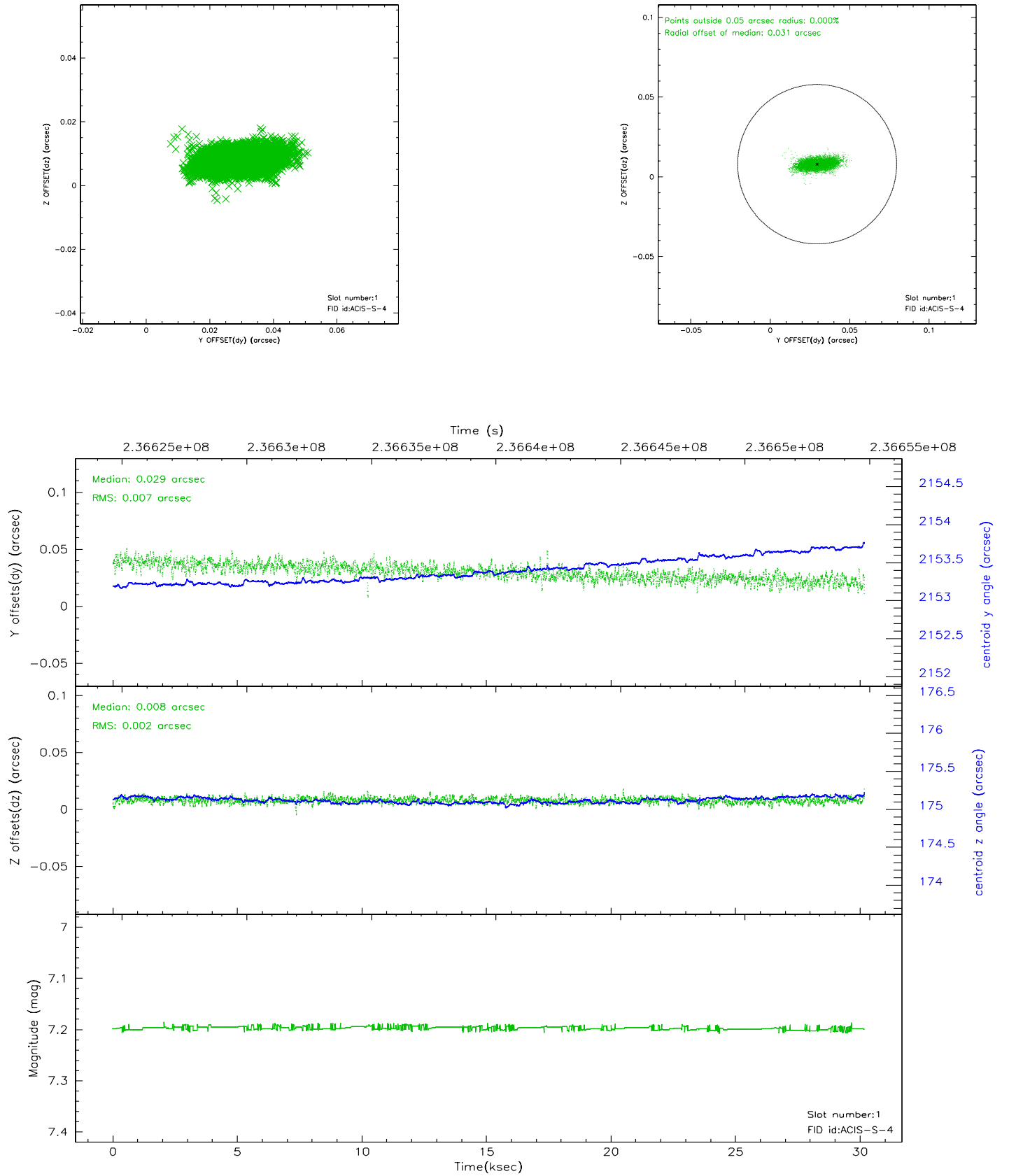


2.5 FID Slots

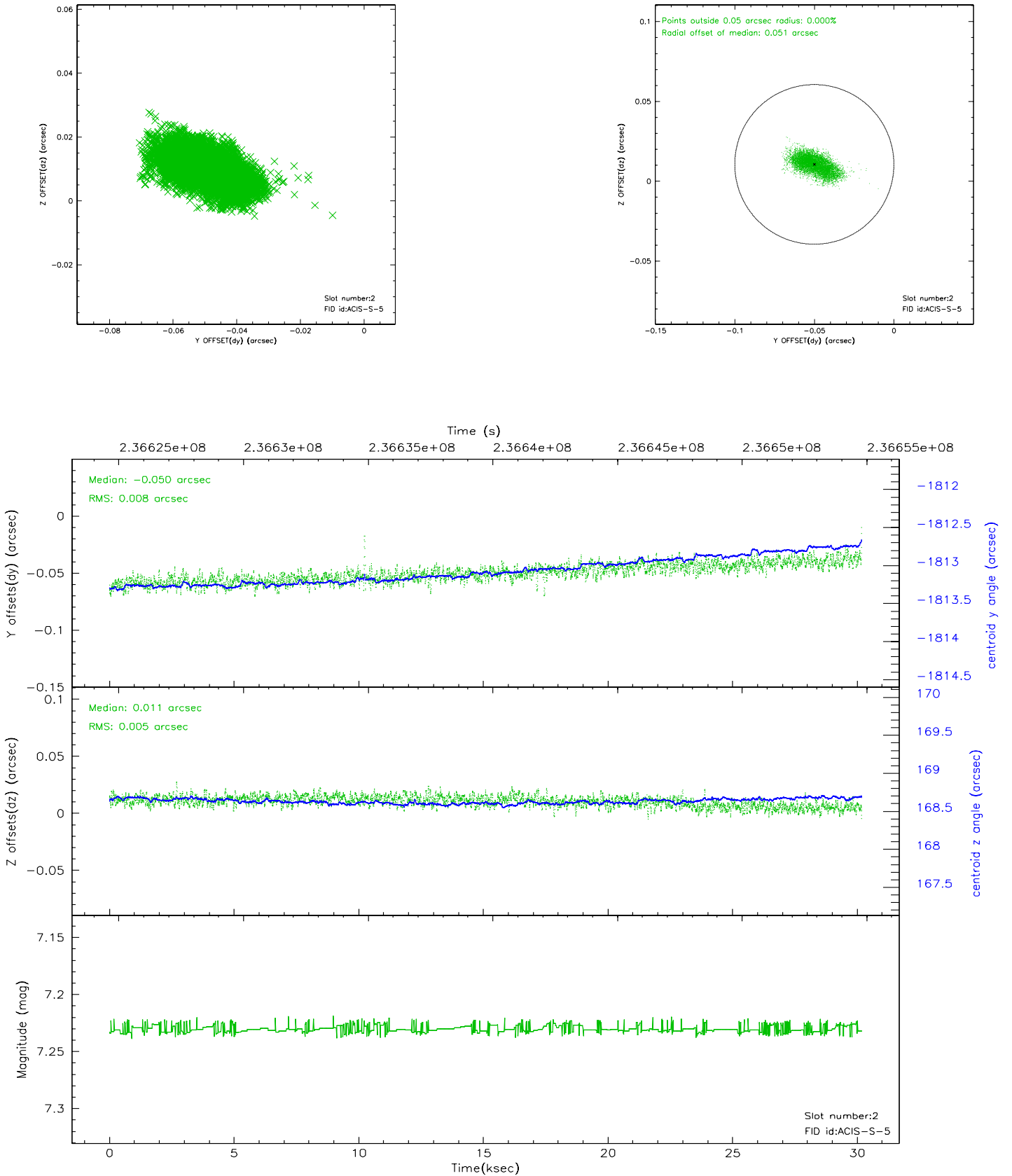
2.5.1 Slot 0



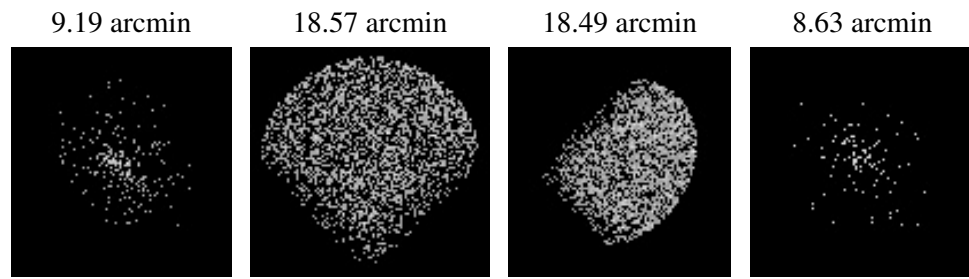
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.03.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 30.17275 |

A.2 Comments