

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5660 - L2 Version 5
Chandra X-Ray Center

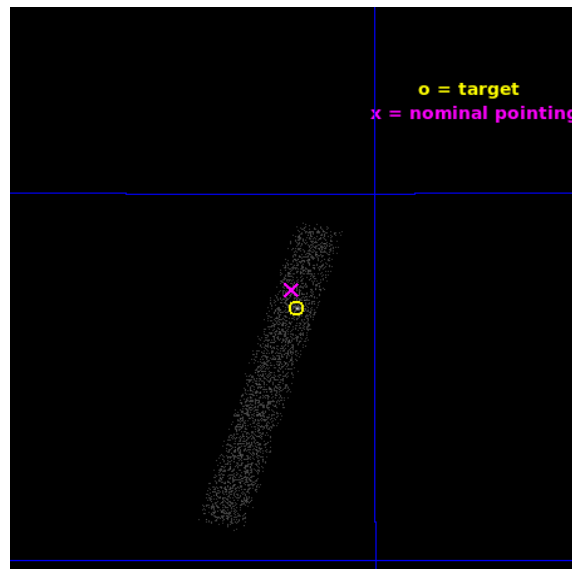
L2 Processing Date : Oct 5 2020

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1 Front

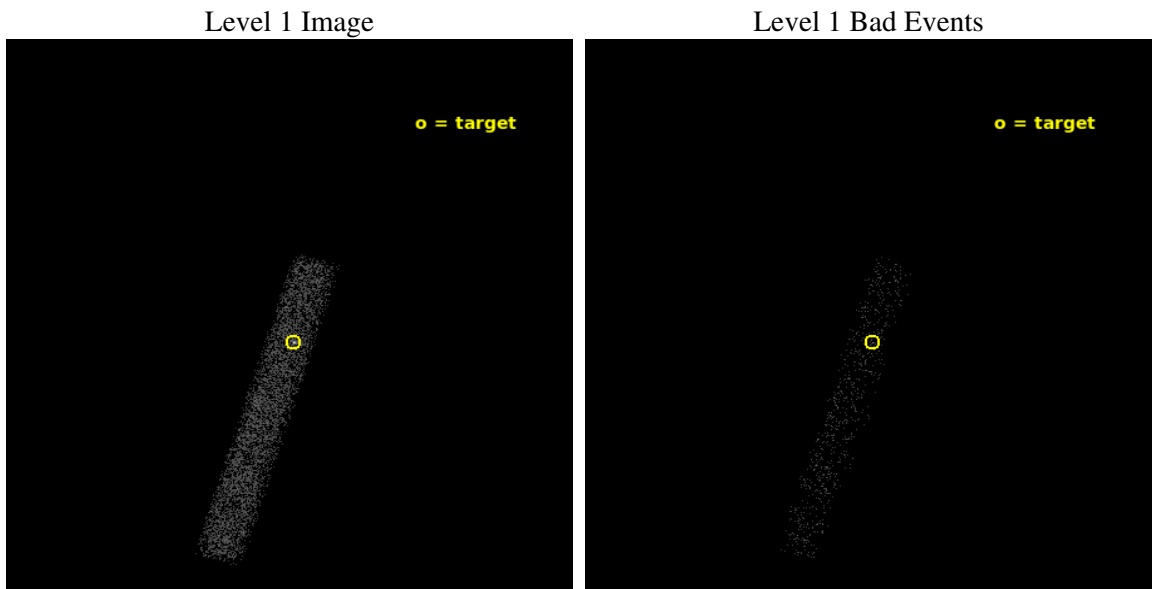
| | | |
|----------|---|---|
| seq_num | 701083 | Sequence number |
| obs_id | 5660 | Observation id |
| title | X-ray Properties of AGNs with Intermediate-mass Black Holes | Propos |
| observer | Dr. Luis Ho | Principal investigator |
| object | SDSS J082912.67+500652.3 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 127.302917 | Observer's specified target RA [deg] |
| dec_targ | 50.114528 | Observer's specified target Dec [deg] |
| ra_nom | 127.30618189534 | Nominal RA [deg] |
| dec_nom | 50.122974565649 | Nominal Dec [deg] |
| roll_nom | 107.58701889732 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 5181.6000771821 | Sum of GTIs [s] |
| livetime | 4699.4377627263 | Livetime [s] |
| ontime7 | 5181.6000771821 | Sum of GTIs [s] |
| l2events | 4346 | Number of level 2 events |



2 OBI

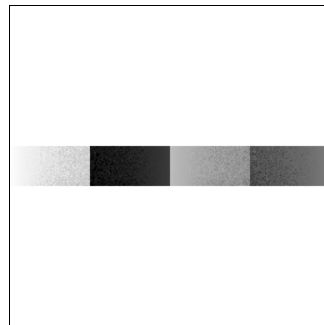
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 5000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 10.9.1 | Processing system revision | ontime | 5181.6000771821 | Sum of GTIs [s] |
| caldbver | 4.9.2 | | ontime7 | 5181.6000771821 | Sum of GTIs [s] |
| date | 2020-10-05T12:50:02 | Date and time of file creation | l1events | 8432 | Number of level 1 events |
| revision | 5 | Processing version of data | | | |

2.1.4 Events

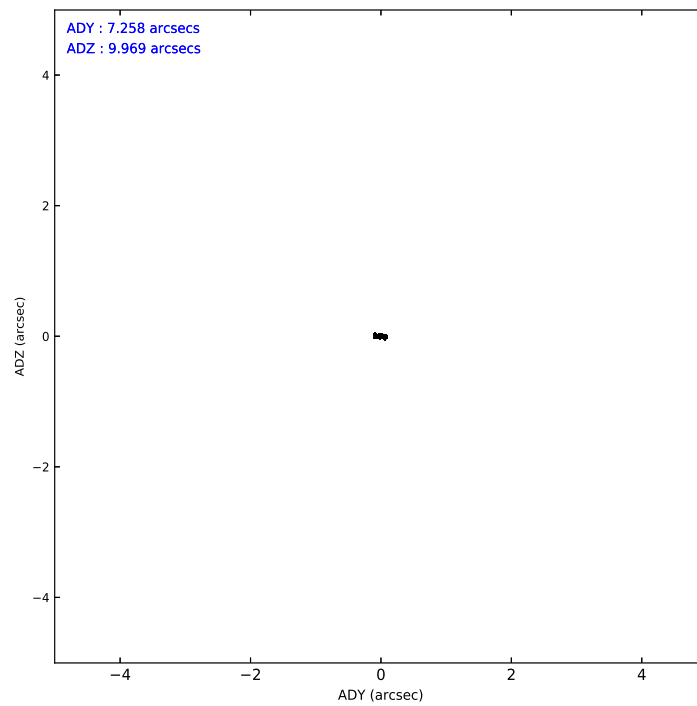
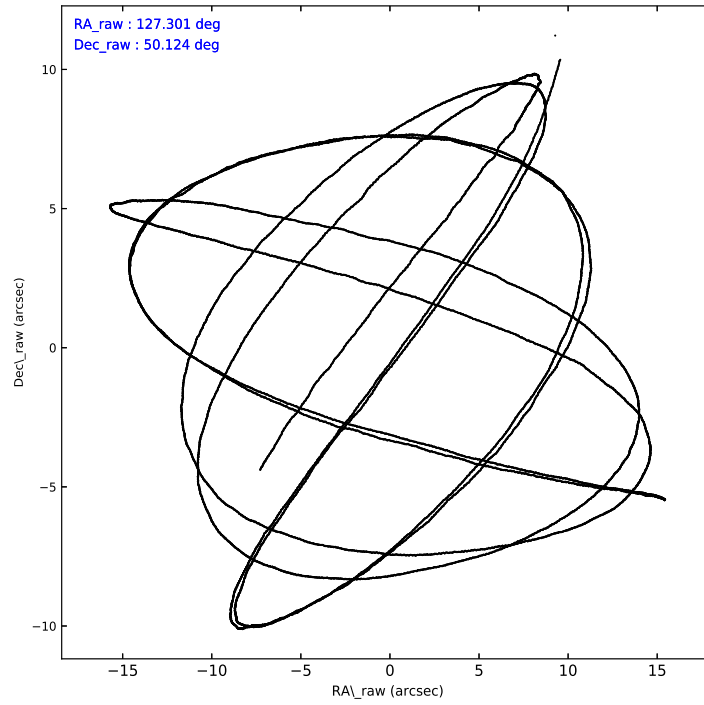
| | ccd 7 |
|-----------------|--------------|
| level 1 events | 8432 |
| rejected events | 3951 |
| rejected % | 46% |

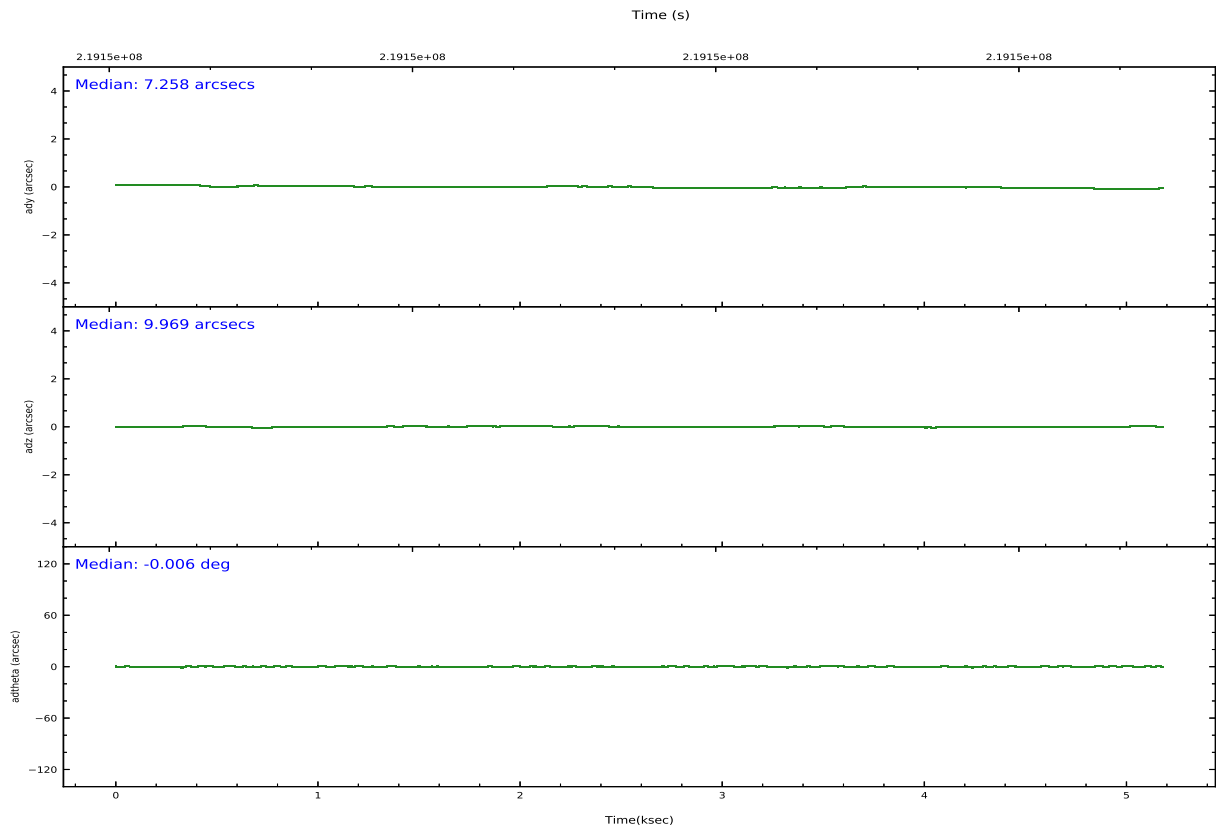
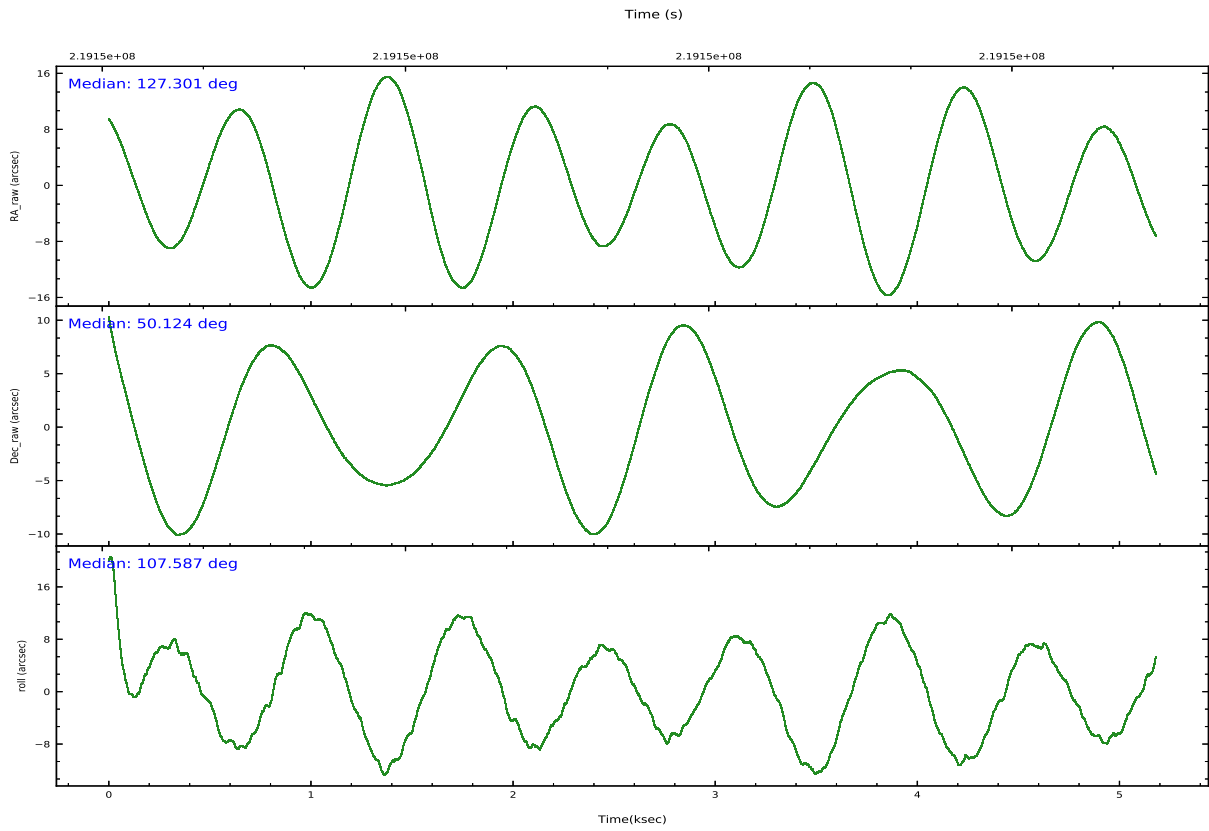
| | ccd 7 |
|----------------|--------------|
| grade 0 events | 759 |
| | 9% |
| grade 1 events | 13 |
| | 0% |
| grade 2 events | 931 |
| | 11% |
| grade 3 events | 581 |
| | 6% |
| grade 4 events | 527 |
| | 6% |
| grade 5 events | 698 |
| | 8% |
| grade 6 events | 1710 |
| | 20% |
| grade 7 events | 3213 |
| | 38% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar version number | 8 | 8 |
| 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 | 127.332680 | 127.30618189534 | Subarray requested | CUSTOM | 1/8 |
| [deg] Pointing Dec | 50.106017 | 50.122974565649 | Subarray start row | 449 | 449 |
| [deg] Pointing Roll | 107.409650 | 107.58701889732 | 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 | -190.1400660498719 | | | |
| [mm] SIM translation stage offset | 0 | 0.00754346686406393 | | | |
| [s] Observation start time (MET) | 219149714.184000 | 219149076.18203 | | | |
| Observation start date | 2004-12-11T10:54:10 | 2004-12-11T10:44:36 | | | |
| [s] Observation end time (MET) | 219154714.184000 | 219155247.19481 | | | |
| Observation end date | 2004-12-11T12:17:30 | 2004-12-11T12:27:27 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



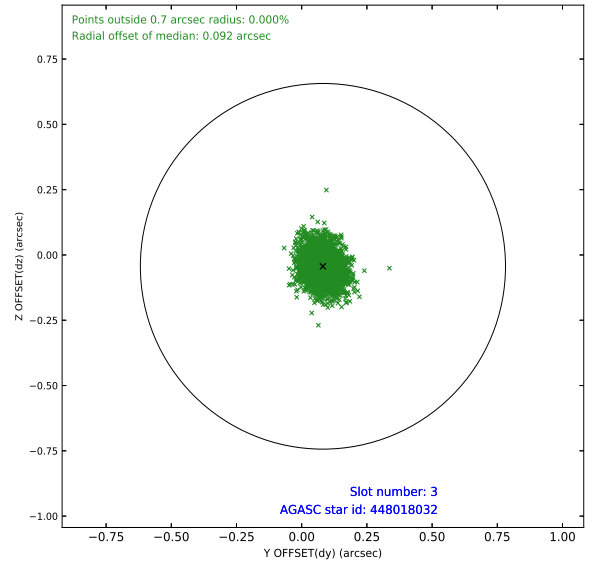
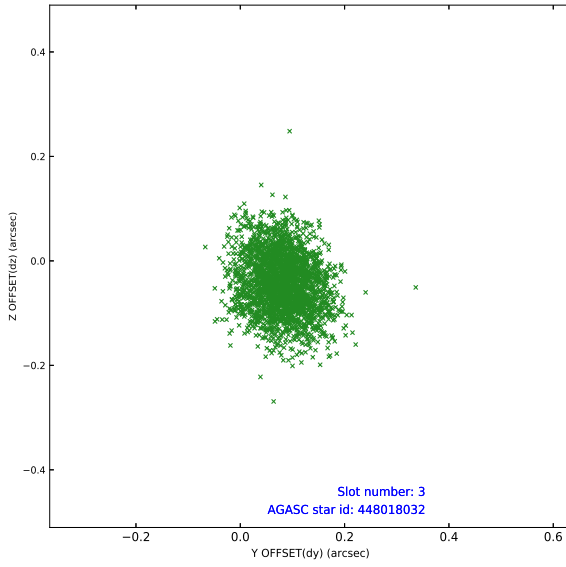


Slot Statistics

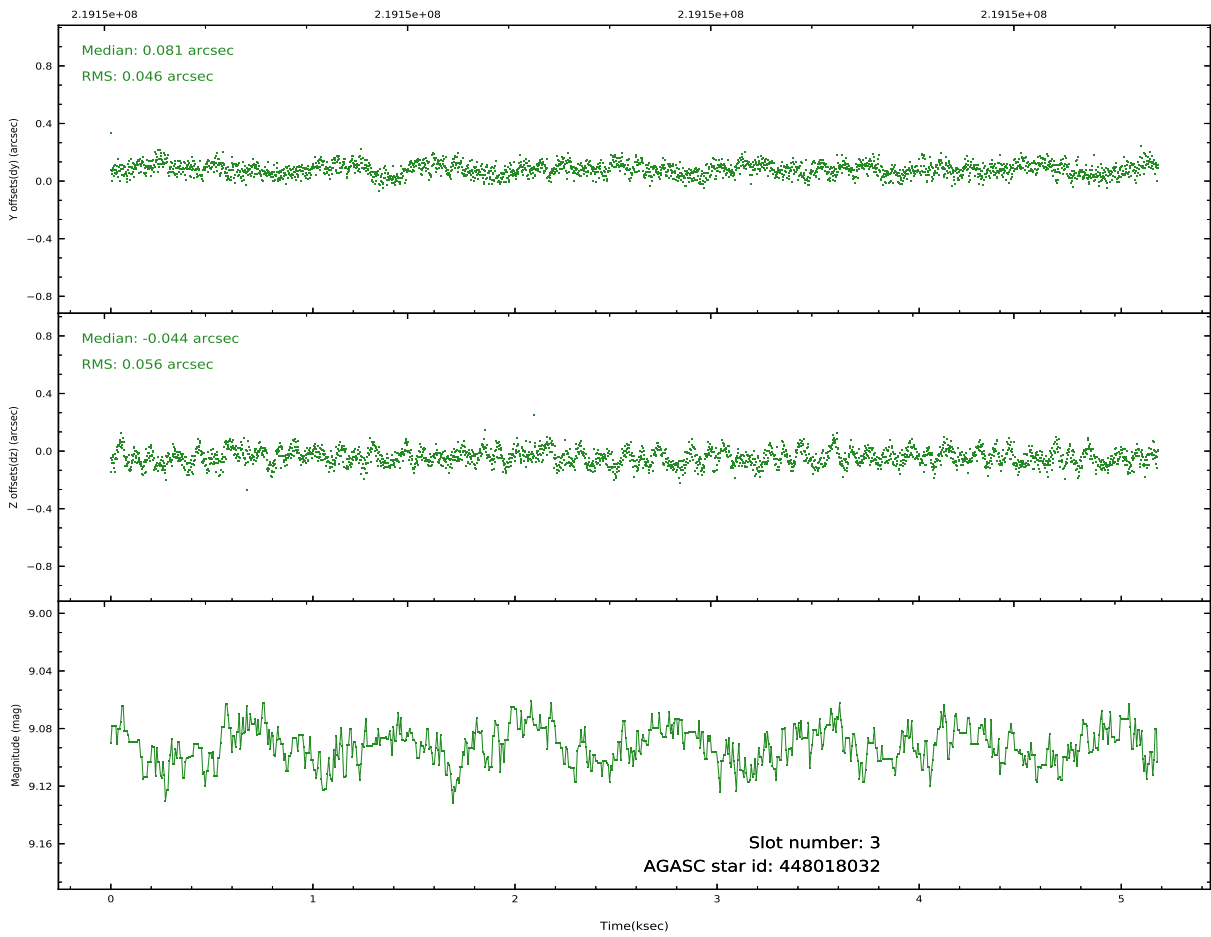
| slot | status | used | id | mag | n_pts | frac_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mea |
|------|--------|------|-----------|------|-------|----------|--------|--------|-------|-------|------------|-----------|----------|-------|
| 0 | FID | | ACIS-S-2 | 7.10 | 1264 | 1.000 | -0.083 | -0.064 | 0.007 | 0.011 | 0.000000 | 0.000000 | -760.03 | -1731 |
| 1 | FID | | ACIS-S-4 | 7.20 | 1264 | 1.000 | 0.159 | 0.057 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2152.89 | 176 |
| 2 | FID | | ACIS-S-5 | 7.23 | 1264 | 1.000 | -0.107 | 0.015 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1811.46 | 171 |
| 3 | GUIDE | used | 448018032 | 9.09 | 2528 | 1.000 | 0.081 | -0.044 | 0.078 | 0.123 | 126.828256 | 49.922135 | -278.21 | 1312 |
| 4 | GUIDE | used | 448020168 | 7.67 | 2529 | 1.000 | 0.063 | -0.167 | 0.092 | 0.141 | 127.086143 | 49.687322 | -1265.73 | 999 |
| 5 | GUIDE | used | 448400920 | 8.54 | 2529 | 1.000 | 0.034 | 0.040 | 0.109 | 0.163 | 127.310262 | 50.436465 | 1150.23 | -306 |
| 6 | GUIDE | used | 448538280 | 7.56 | 2529 | 1.000 | -0.063 | 0.091 | 0.073 | 0.128 | 127.979312 | 50.616688 | 1317.82 | -1960 |
| 7 | GUIDE | used | 448540800 | 8.17 | 2525 | 1.000 | -0.123 | 0.077 | 0.075 | 0.119 | 127.929128 | 50.708924 | 1670.36 | -1948 |

2.4 Star Slots

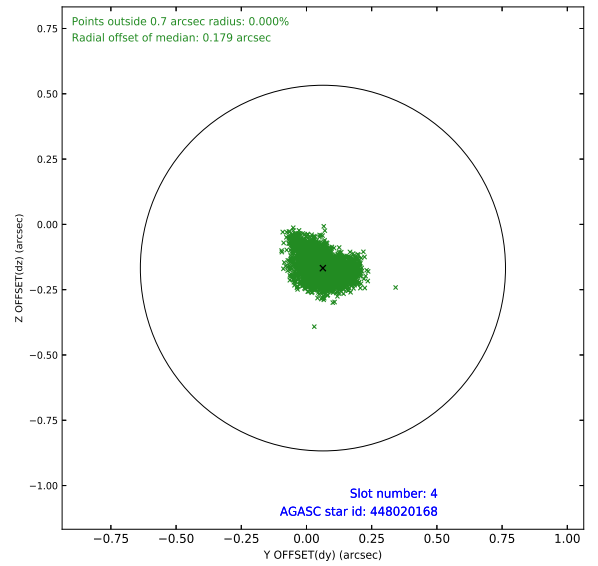
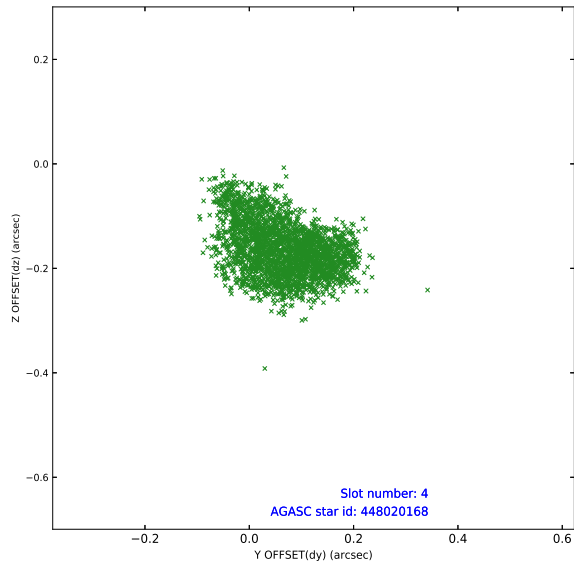
2.4.1 Slot 3



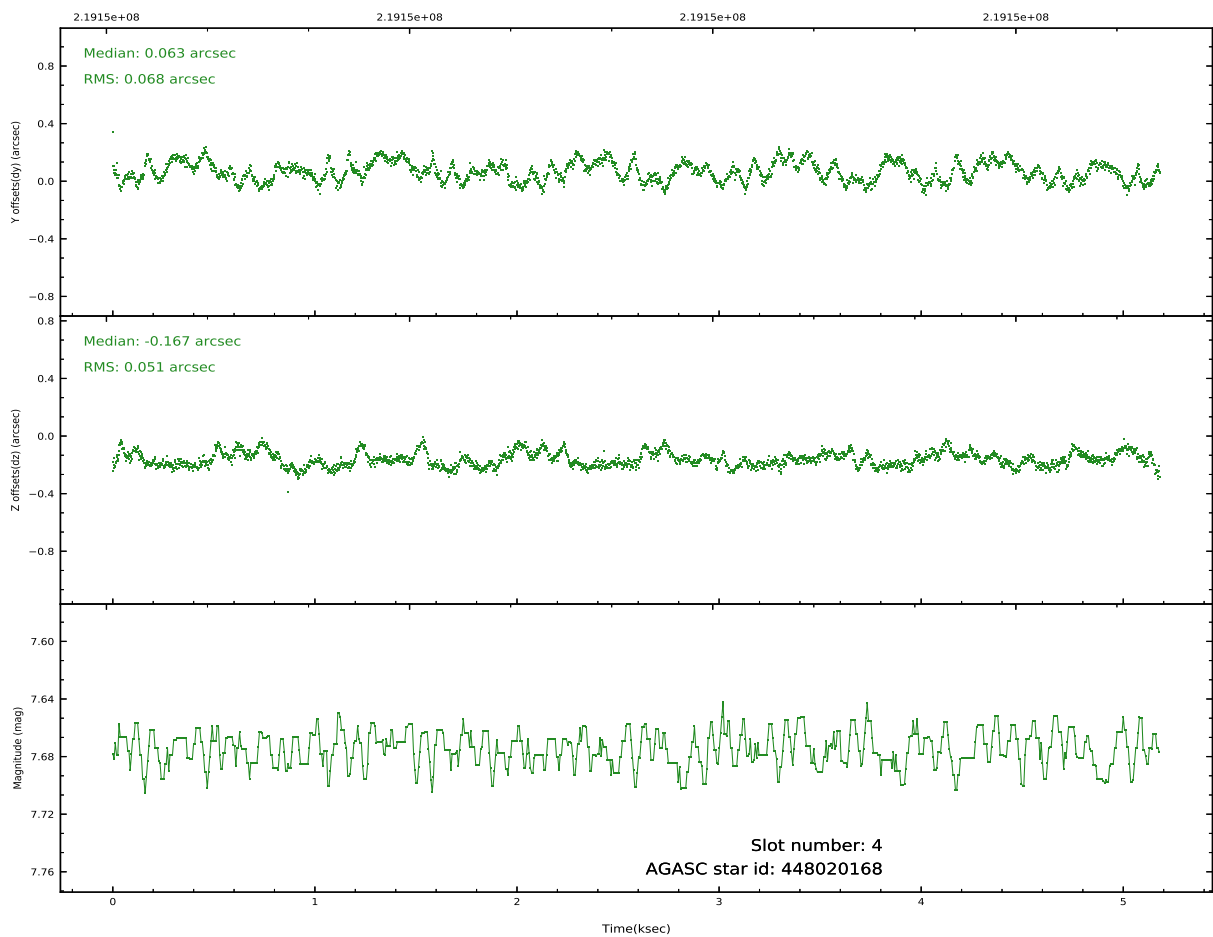
Time (s)



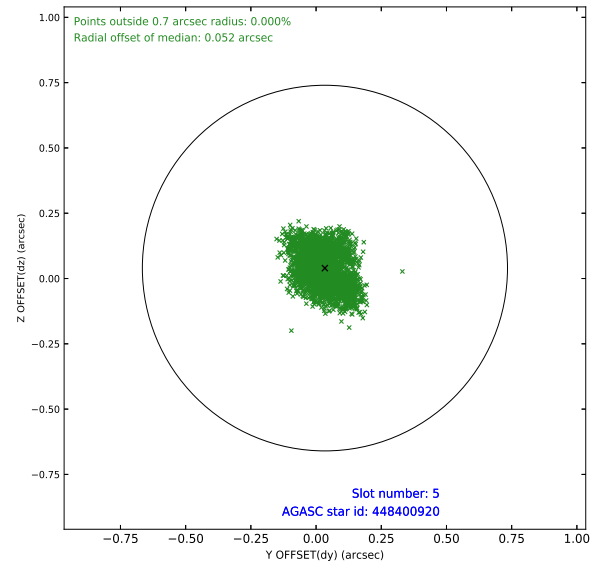
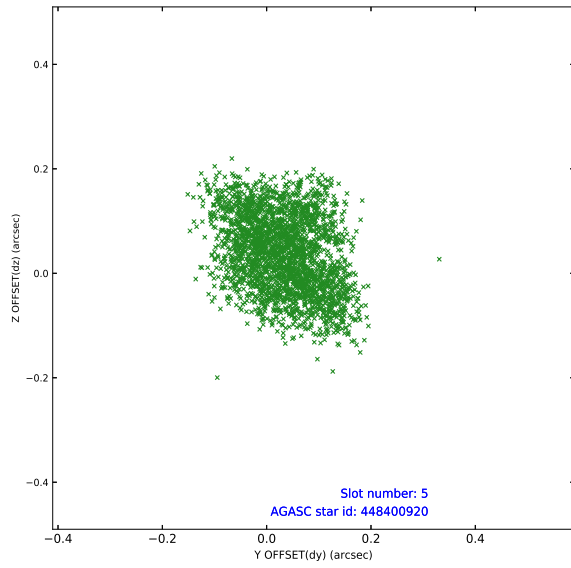
2.4.2 Slot 4



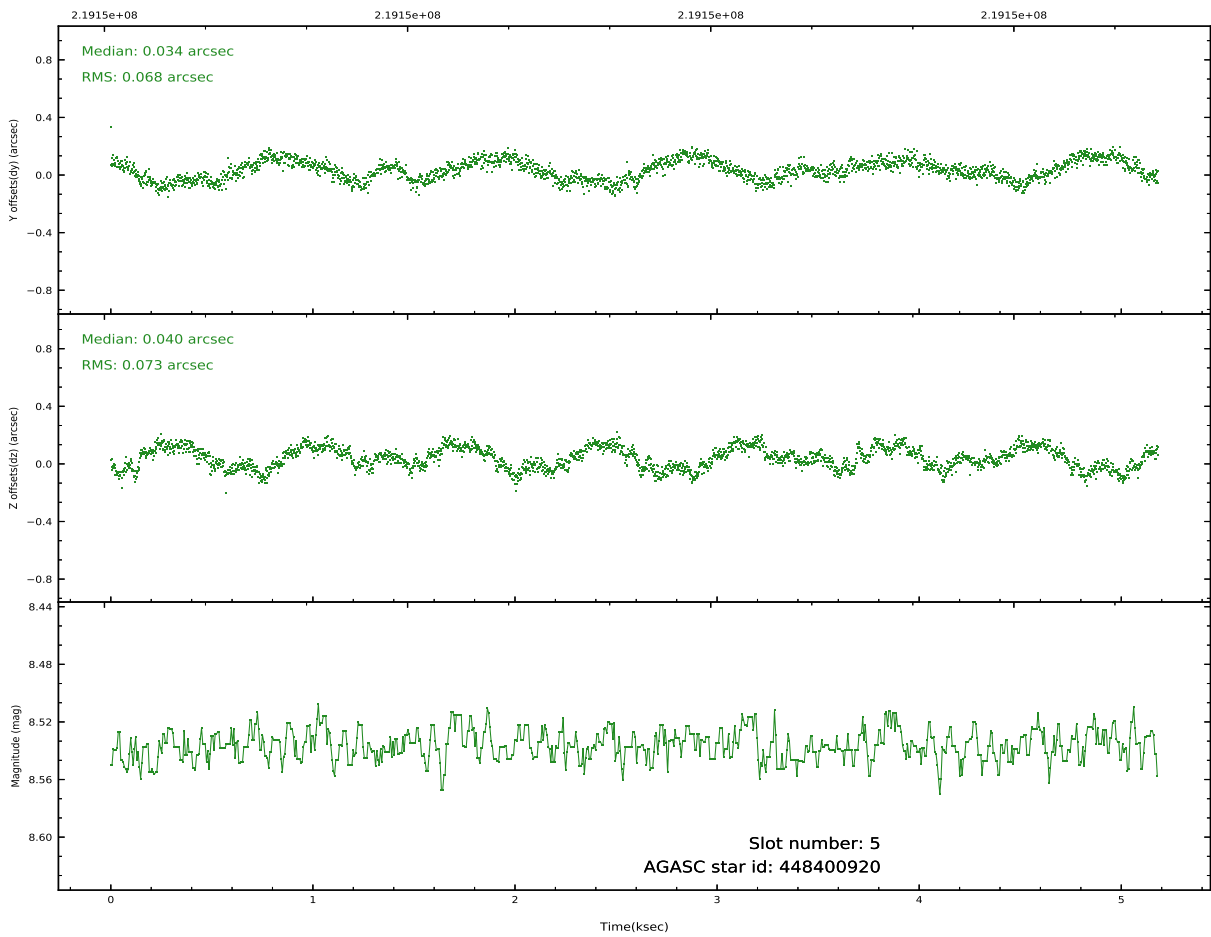
Time (s)



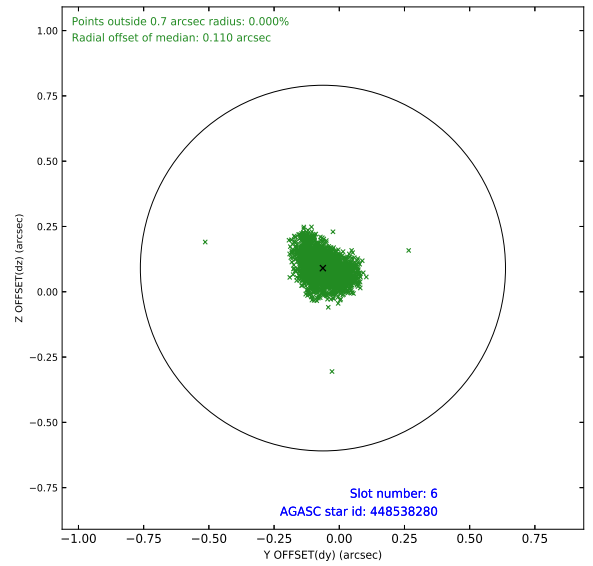
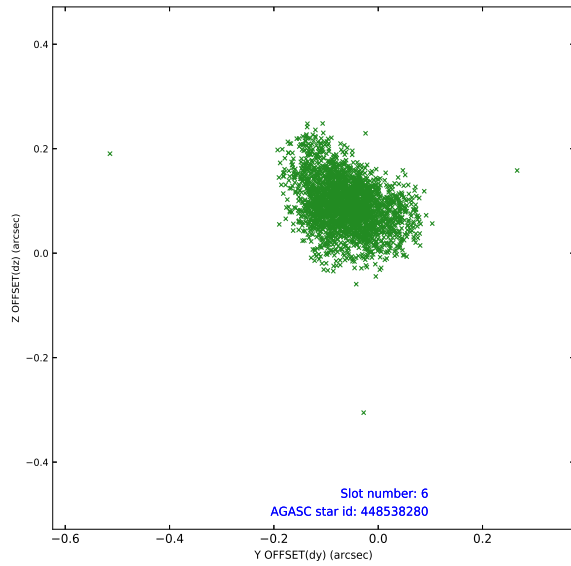
2.4.3 Slot 5



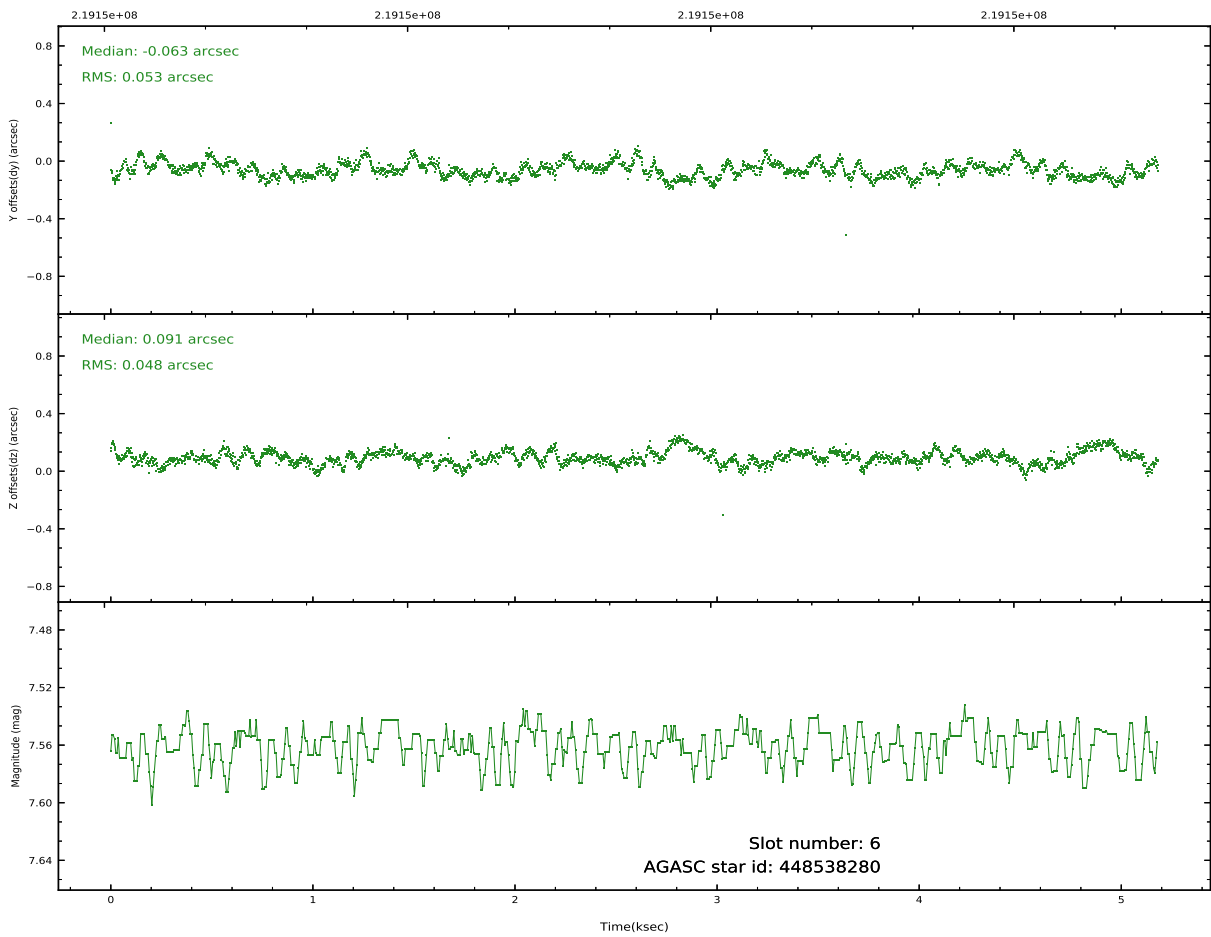
Time (s)



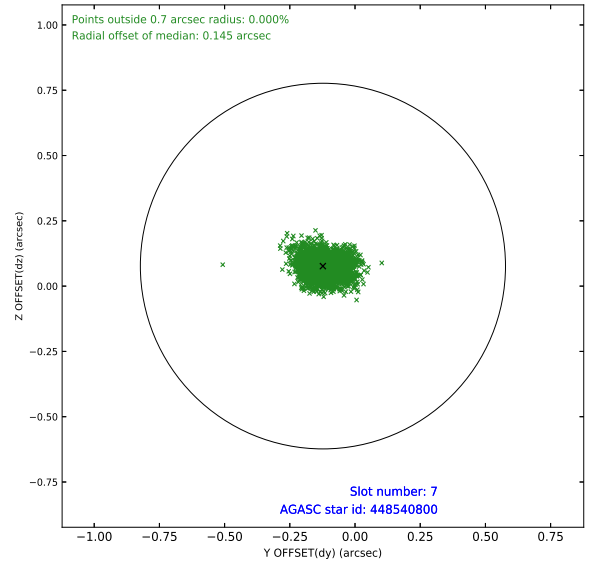
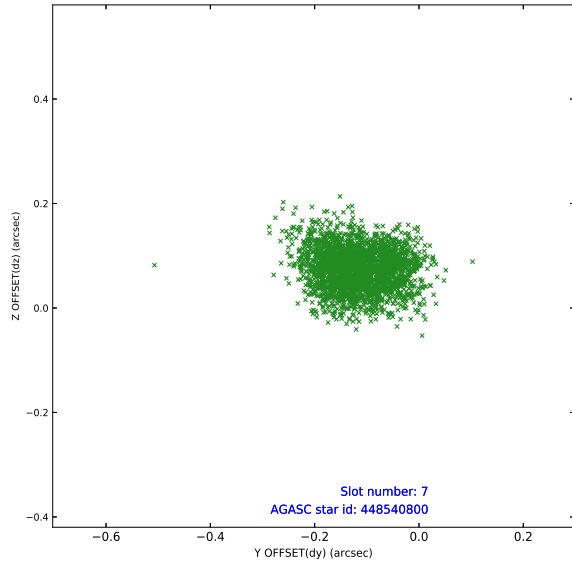
2.4.4 Slot 6



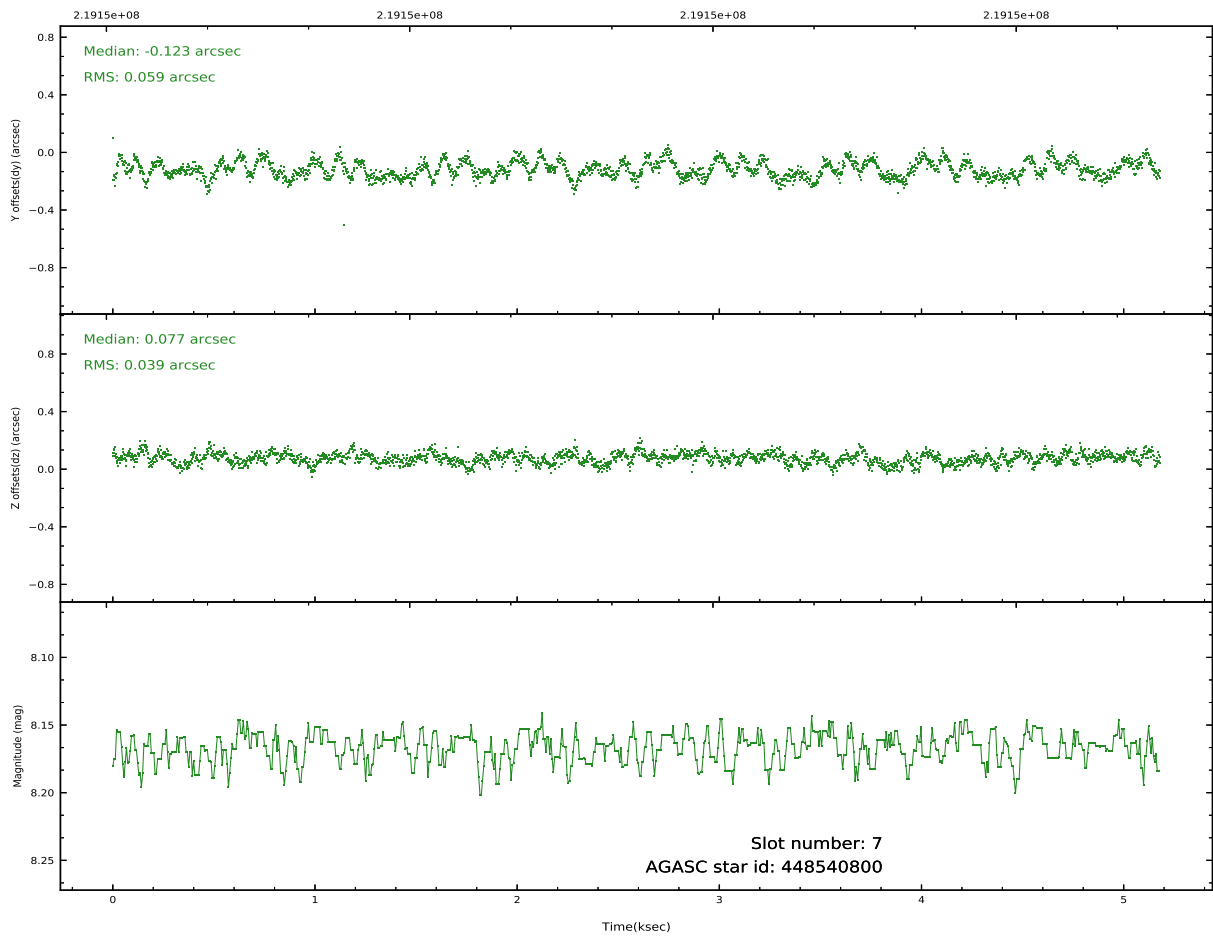
Time (s)



2.4.5 Slot 7

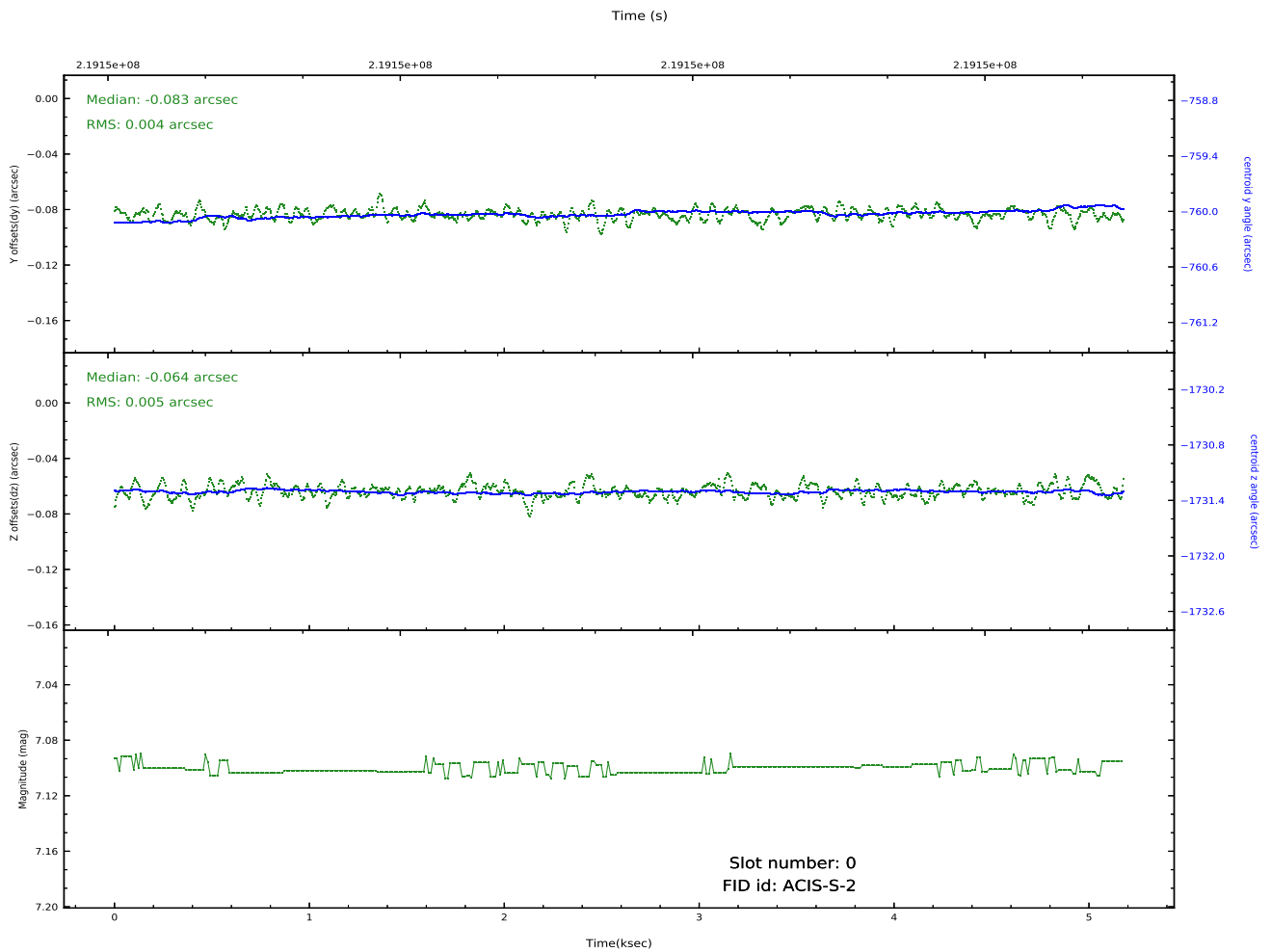
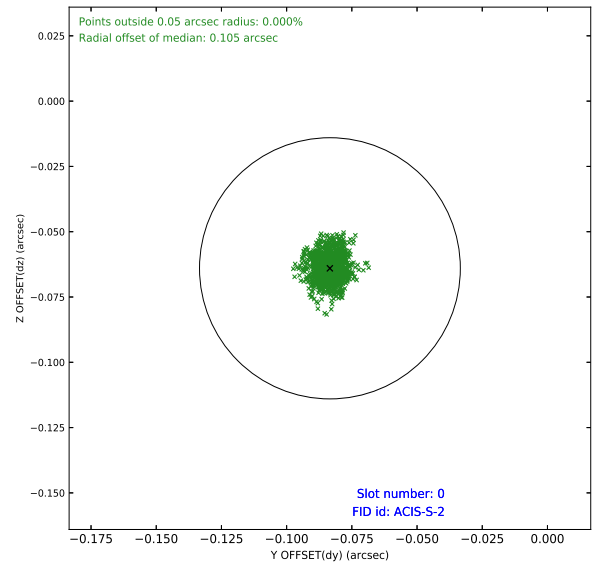
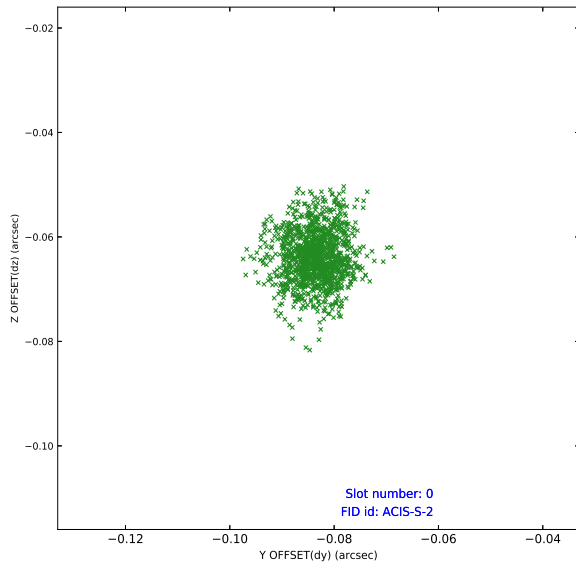


Time (s)

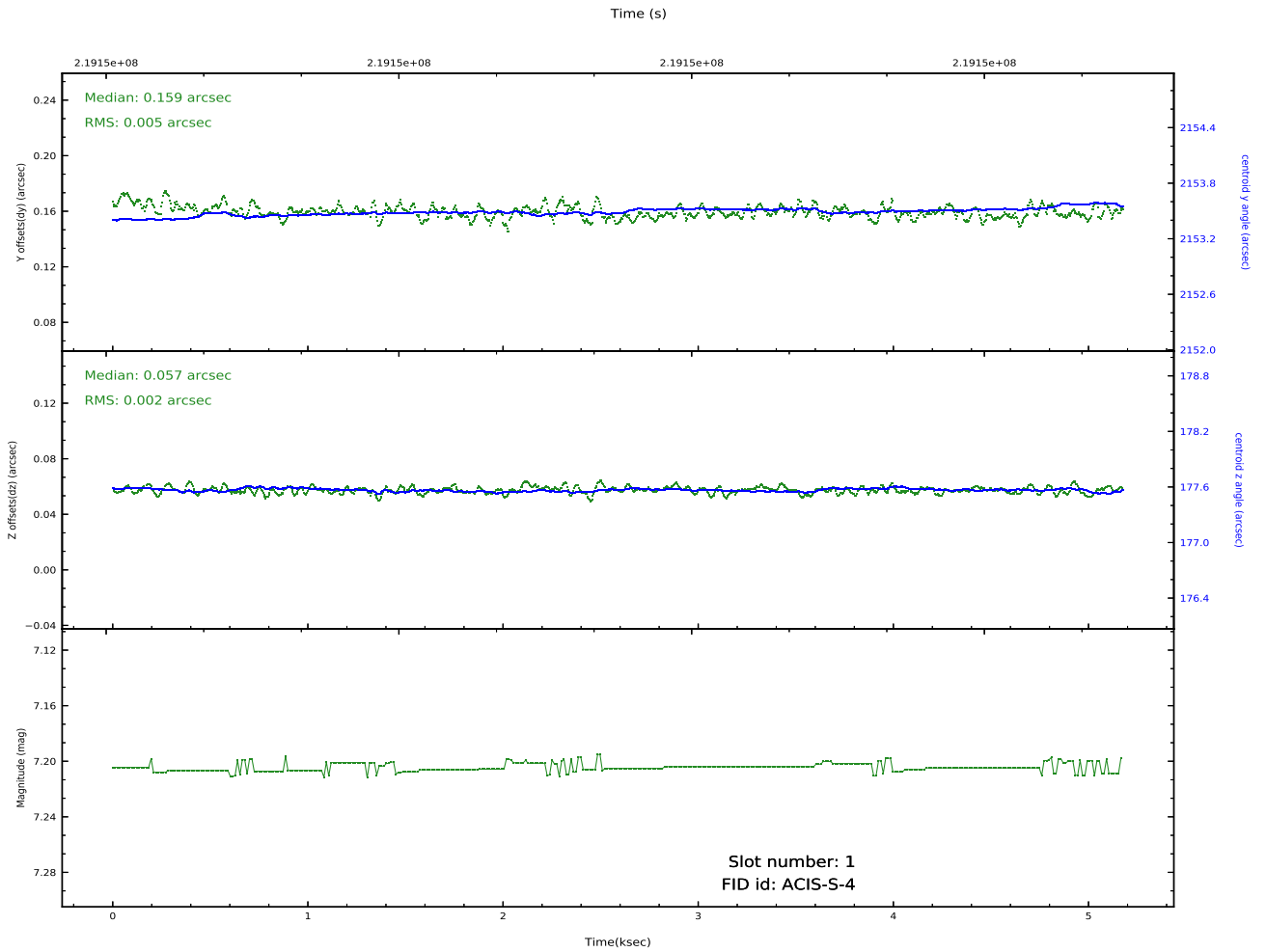
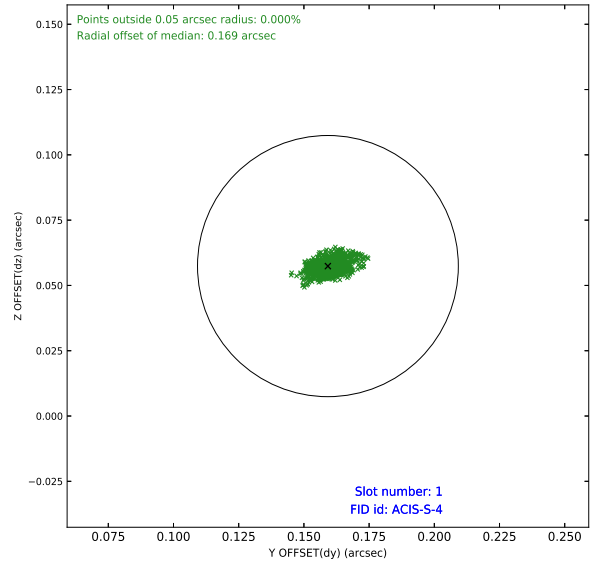
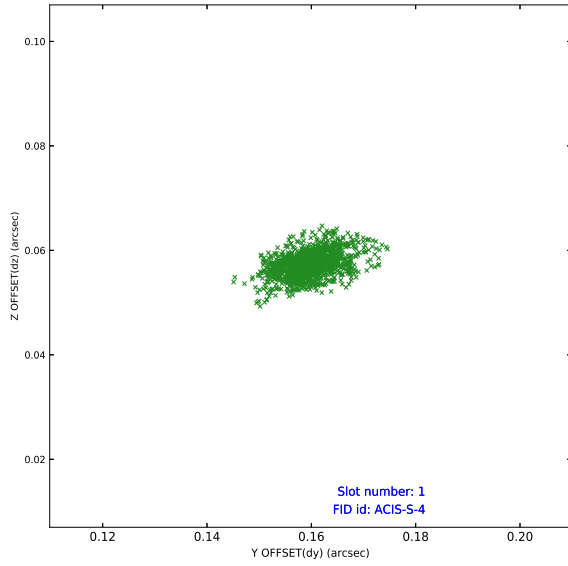


2.5 FID Slots

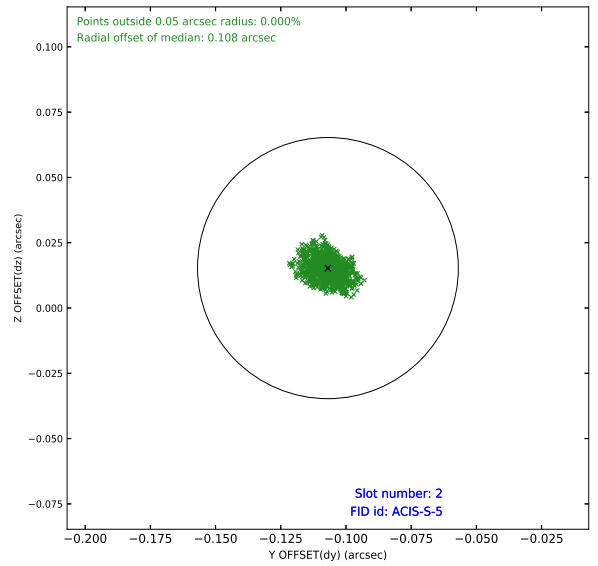
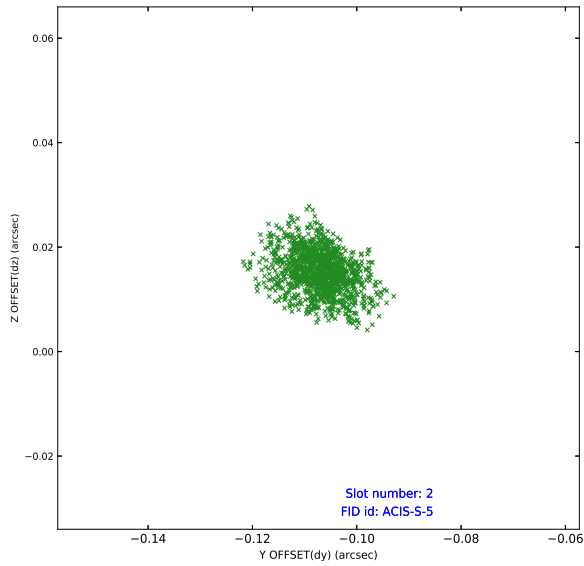
2.5.1 Slot 0



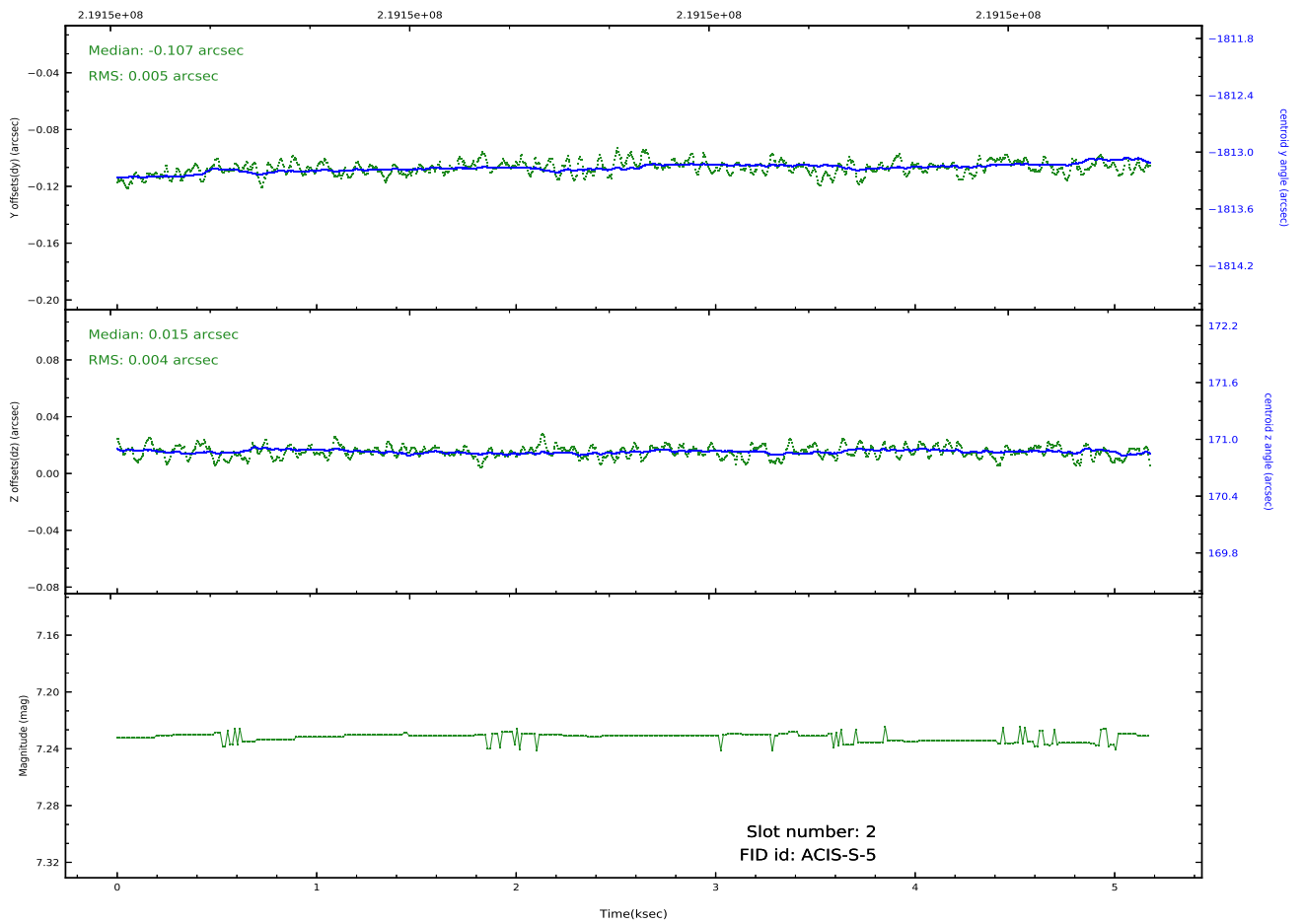
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2020.10.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.1816 |

A.2 Comments