

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2630 - L2 Version 3
Chandra X-Ray Center

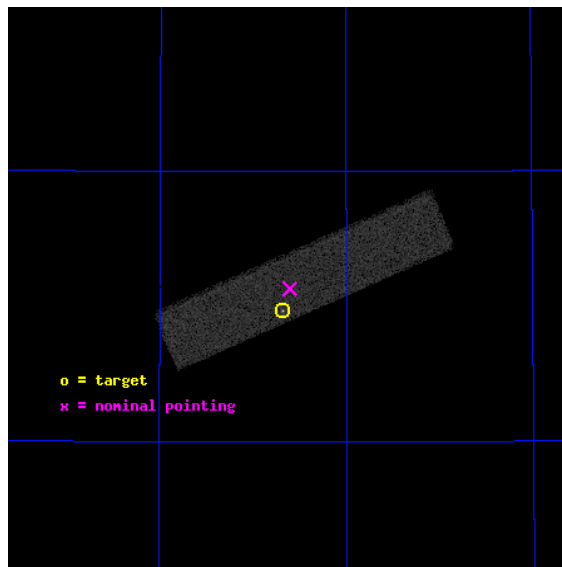
L2 Processing Date : Oct 1 2012

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1 Front

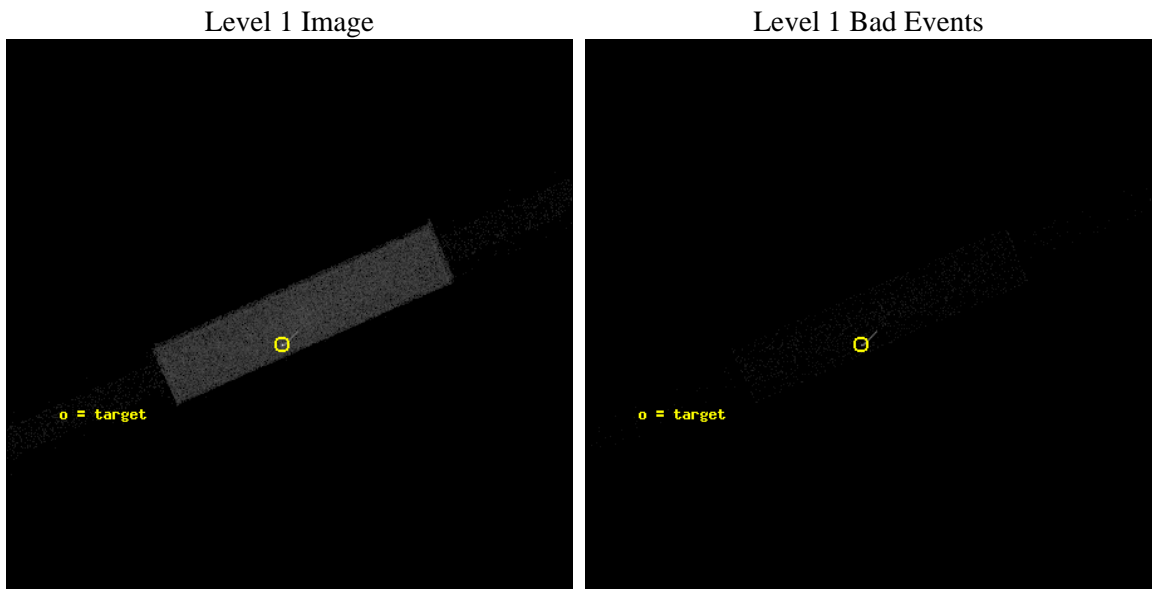
| | | |
|----------|---|---------------------------------------|
| seq_num | 290186 | Sequence number |
| obs_id | 2630 | Observation id |
| title | AO3A HRC-S CALIBRATION OBSERVATION: MINI-SCAN OF ARLAC | Proposal ti |
| observer | Dr. CXC Calibration | Principal investigator |
| object | ARLAC | Source name |
| ra_targ | 332.17 | Observer's specified target RA [deg] |
| dec_targ | 45.742306 | Observer's specified target Dec [deg] |
| ra_nom | 332.15150668277 | Nominal RA [deg] |
| dec_nom | 45.783196630306 | Nominal Dec [deg] |
| roll_nom | 336.28055932448 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1143.1312960684 | [s] |
| livetime | 1136.888400964 | Ontime multiplied by DTCOR |
| l2events | 43088 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1143.1312960684 | [s] |
| caldsver | 4.5.2 | | l1events | 70637 | Number of level 1 events |
| date | 2012-10-01T03:02:47 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

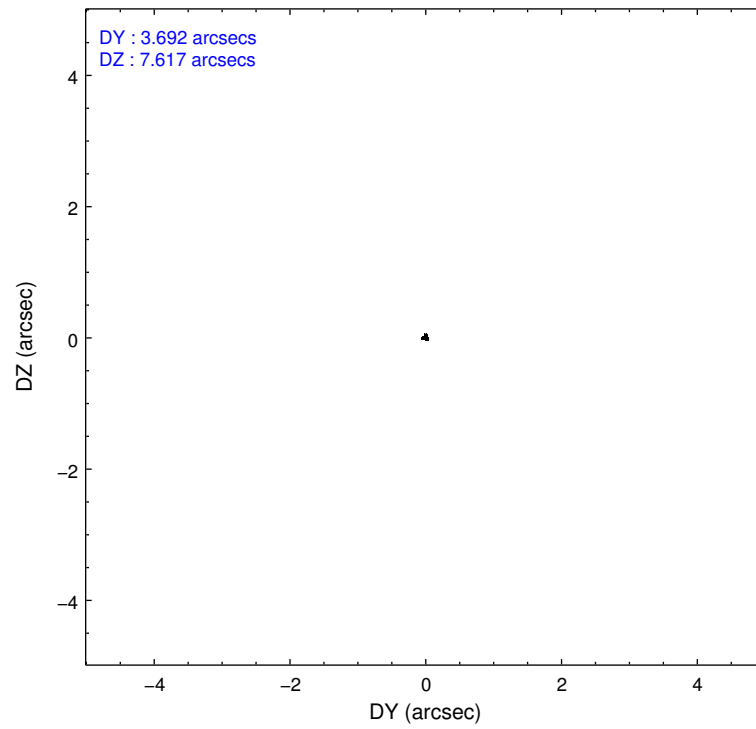
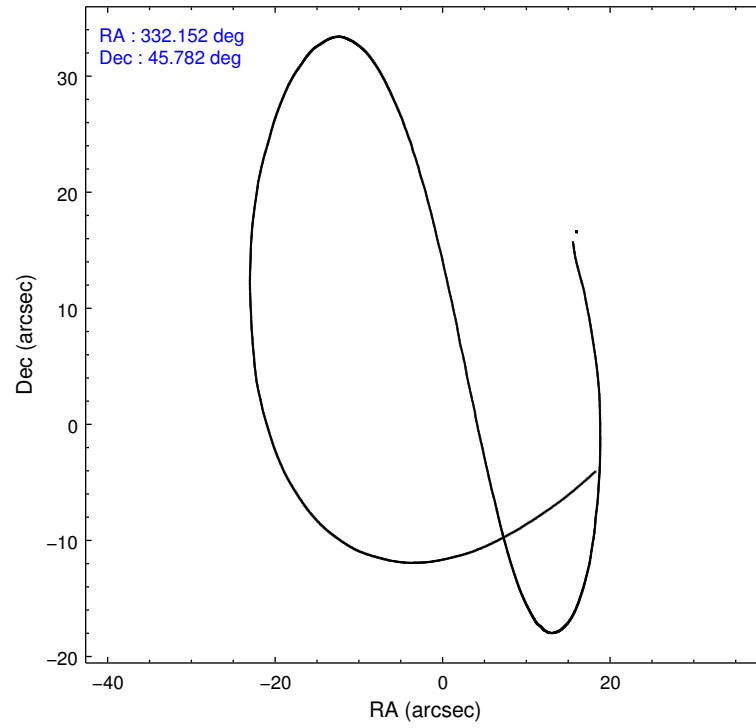
| | segment 1 | segment 2 | segment 3 |
|-----------------|--------------|--------------|--------------|
| level 1 events | 1101 | 68464 | 1072 |
| rejected events | 1101 | 15397 | 1072 |
| rejected % | 100% | 22% | 100% |

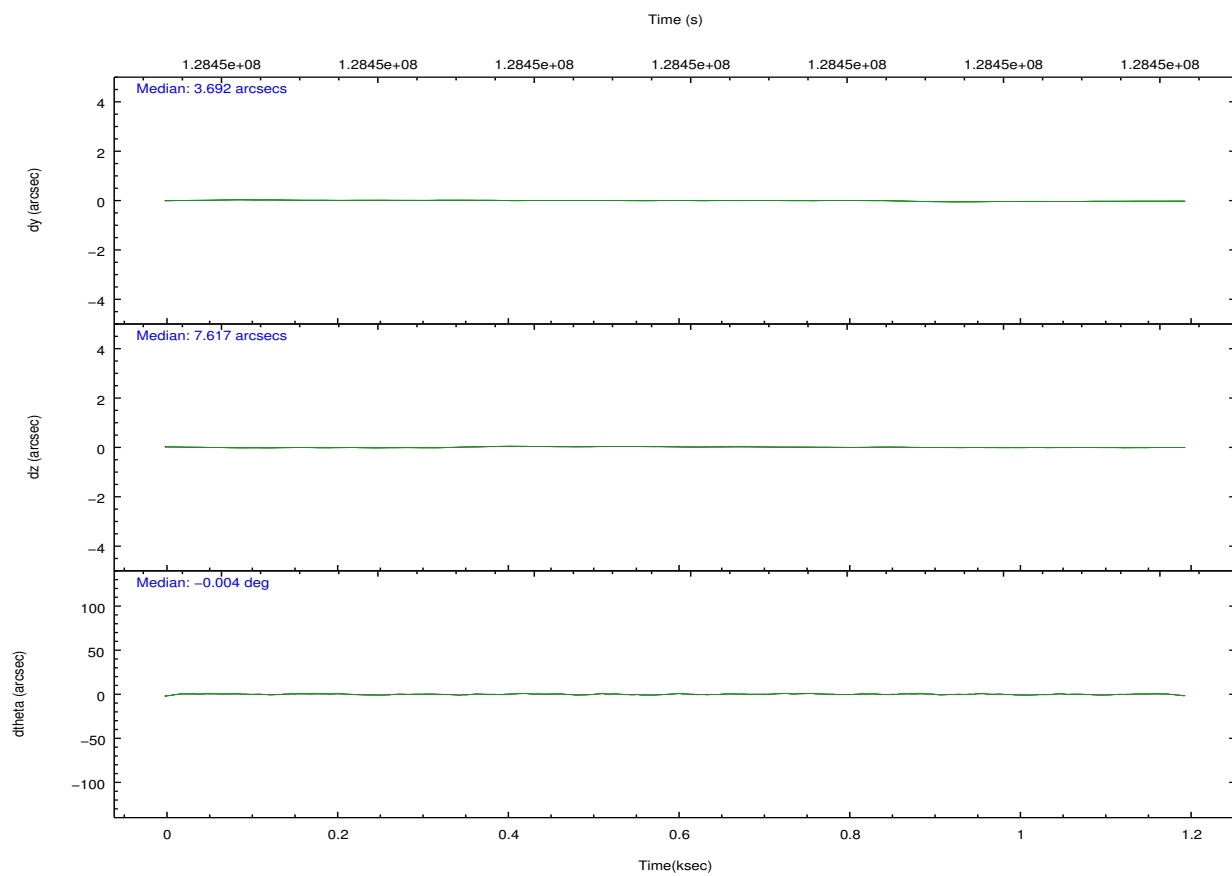
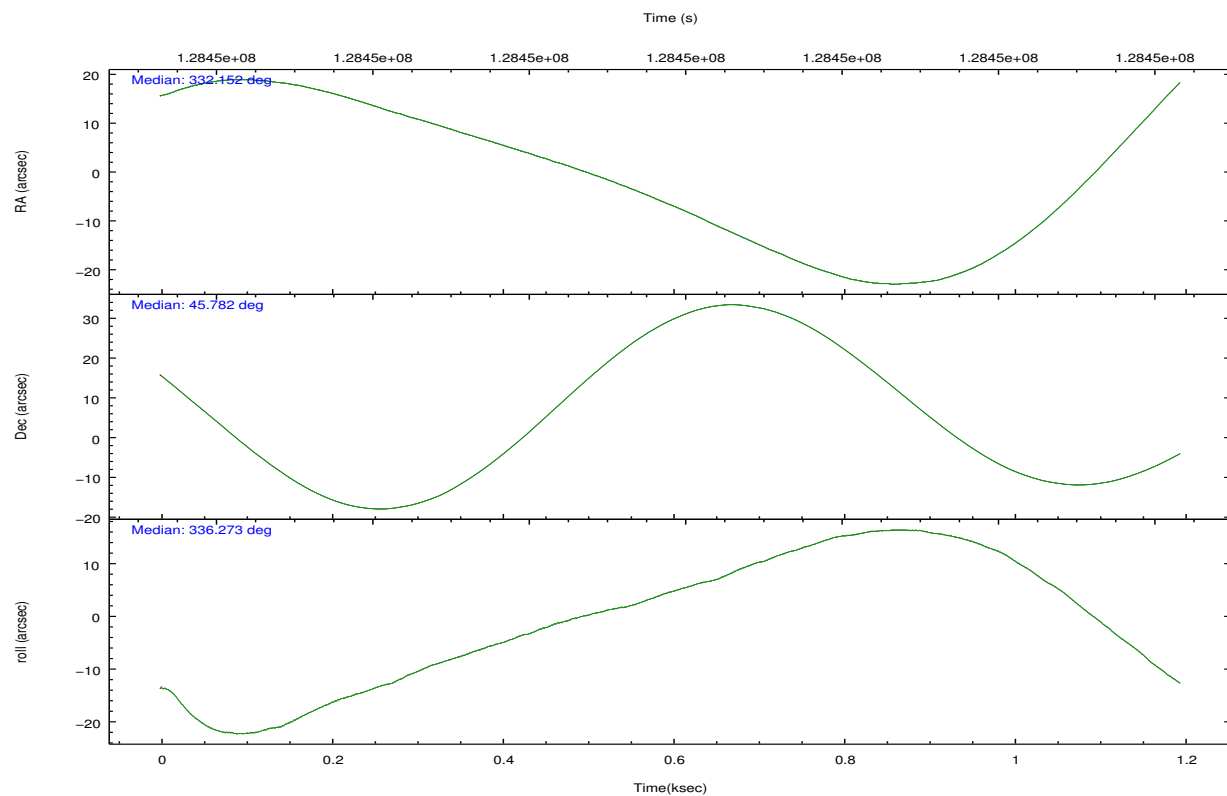
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-S | HRC-S |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 332.111127 | 332.1515066827735 |
| [deg] Pointing Dec | 45.779714 | 45.78319663030647 |
| [deg] Pointing Roll | 336.242170 | 336.28055932448 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 128449577.184000 | 128449201.3386 |
| Observation start date | 2002-01-26T16:25:13 | 2002-01-26T16:20:01 |
| [s] Observation end time (MET) | 128450577.184000 | 128450711.16366 |
| Observation end date | 2002-01-26T16:41:53 | 2002-01-26T16:45:11 |

| Parameter | Planned | Actual |
|------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |

2.3 Aspect



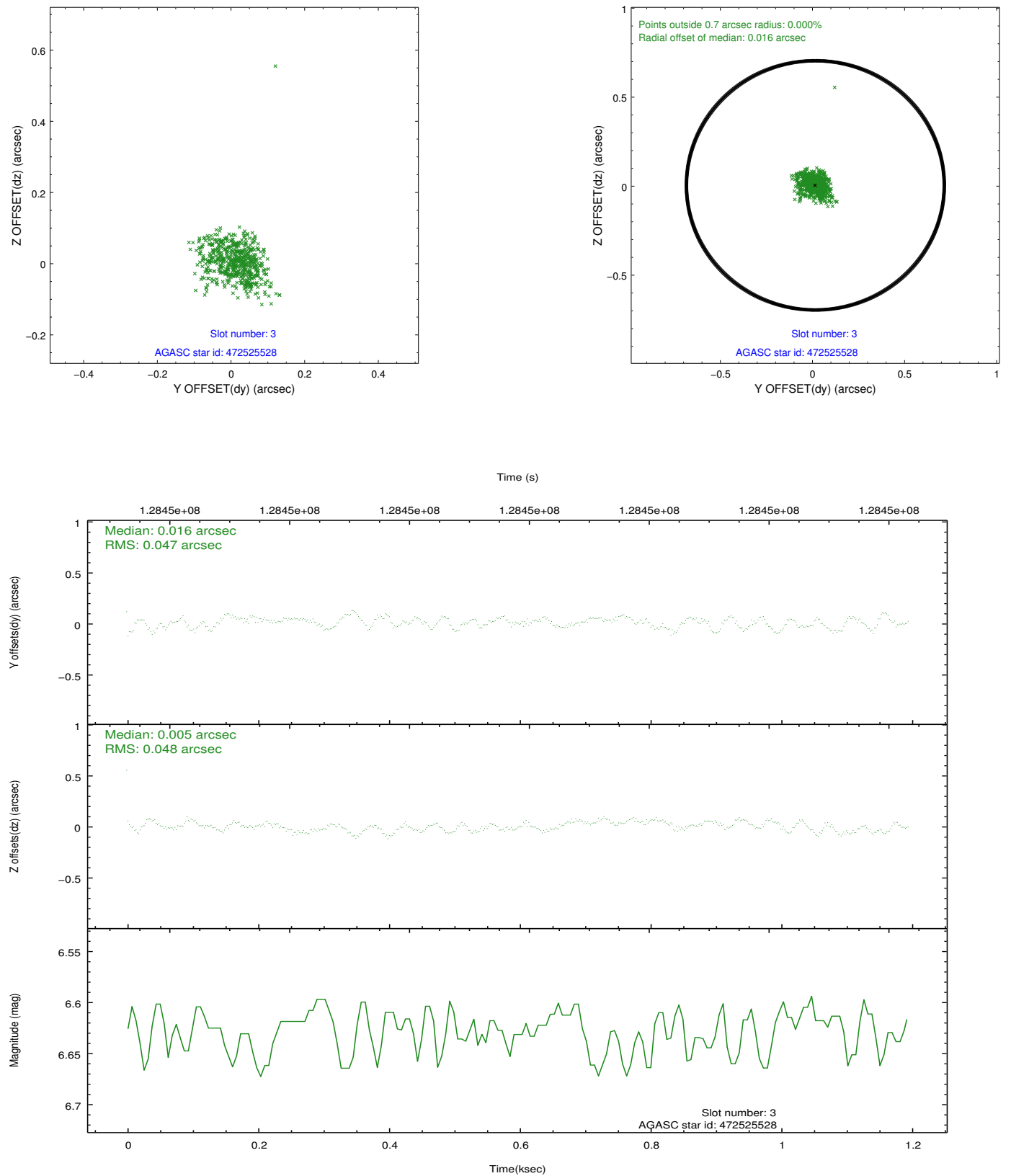


Slot Statistics

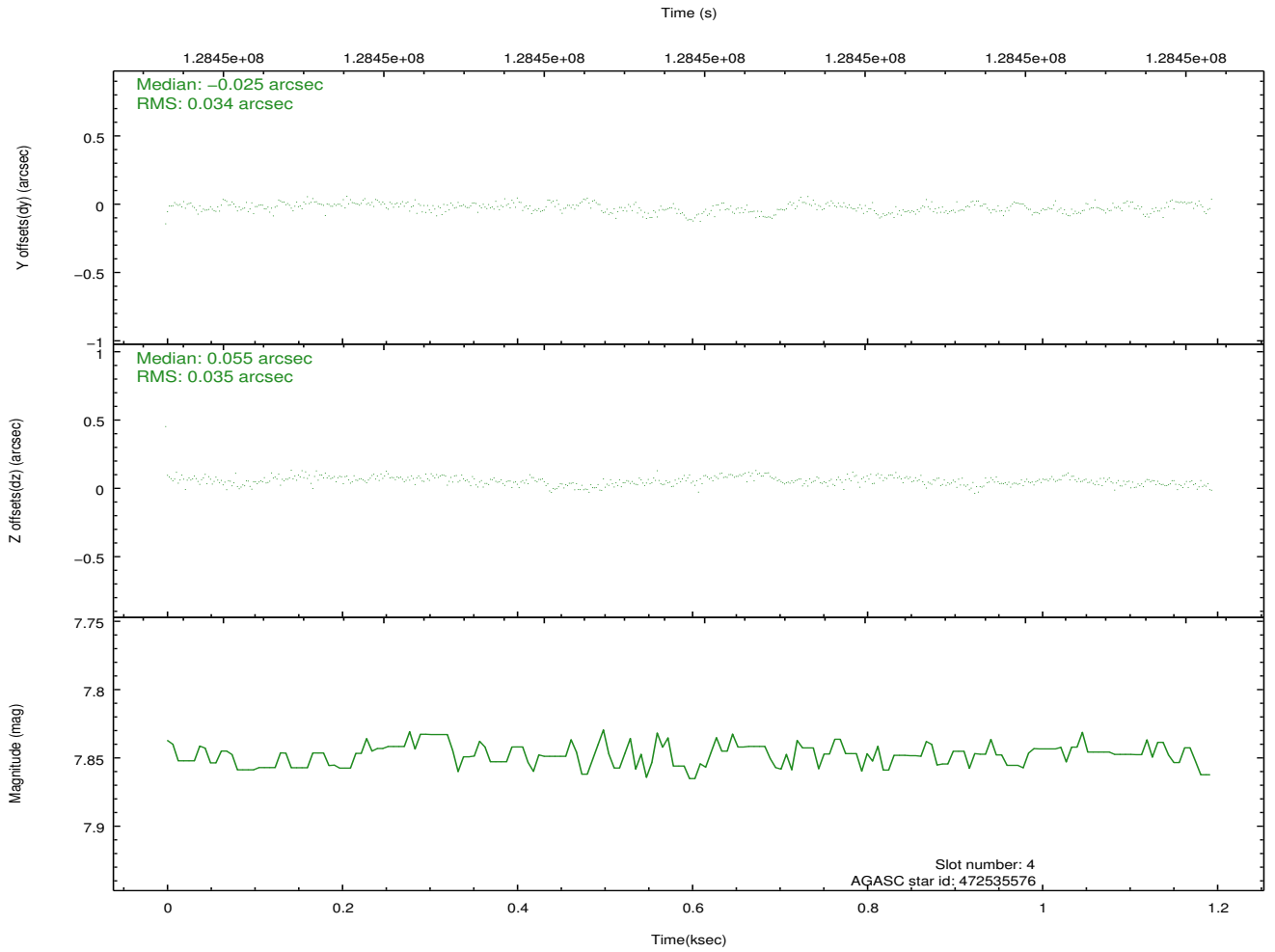
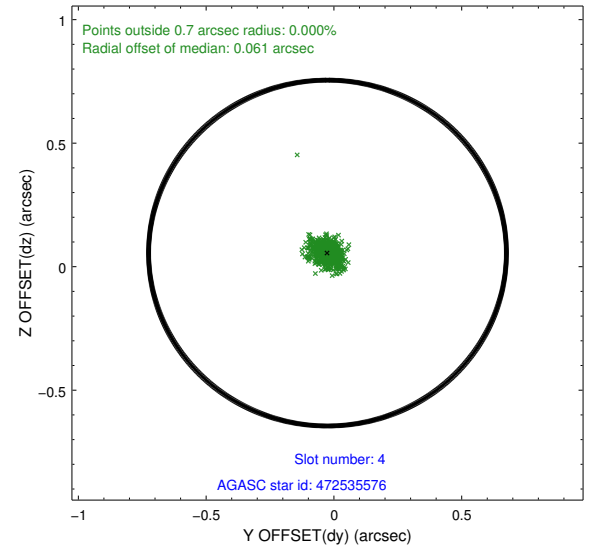
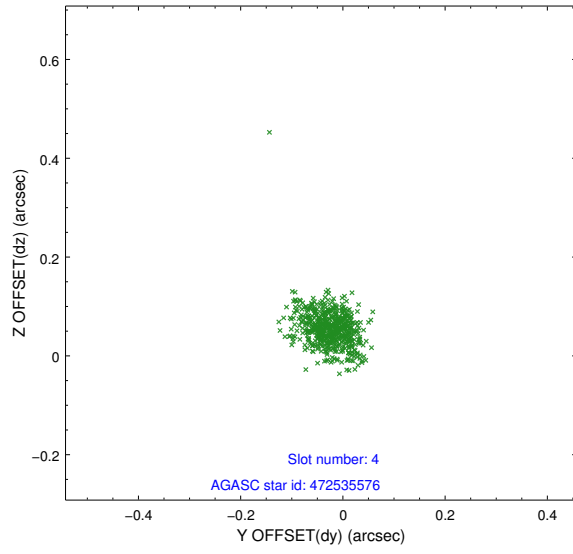
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 6.98 | 292 | 0.152 | -0.081 | 0.006 | 0.010 | 0.000000 | 0.000000 | -1157.72 | -456.16 |
| 1 | FID | HRC-S-2 | 6.99 | 292 | 0.077 | -0.088 | 0.006 | 0.010 | 0.000000 | 0.000000 | 1237.92 | -450.34 |
| 2 | FID | HRC-S-3 | 7.01 | 292 | 0.160 | -0.133 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1156.20 | 571.77 |
| 3 | GUIDE | 472525528 | 6.63 | 584 | 0.016 | 0.005 | 0.069 | 0.108 | 331.551102 | 45.248694 | -532.77 | -2313.80 |
| 4 | GUIDE | 472535576 | 7.85 | 584 | -0.025 | 0.055 | 0.048 | 0.081 | 331.438373 | 46.291802 | -2280.43 | 1018.62 |
| 5 | GUIDE | 472523760 | 8.23 | 584 | -0.024 | -0.123 | 0.058 | 0.092 | 331.645363 | 45.403260 | -538.73 | -1706.78 |
| 6 | GUIDE | 472665256 | 9.01 | 584 | -0.073 | -0.002 | 0.089 | 0.133 | 332.808125 | 46.195041 | 980.92 | 2075.61 |
| 7 | GUIDE | 472659832 | 9.46 | 583 | 0.100 | 0.080 | 0.095 | 0.158 | 332.780399 | 46.098139 | 1063.99 | 1735.71 |

2.4 Star Slots

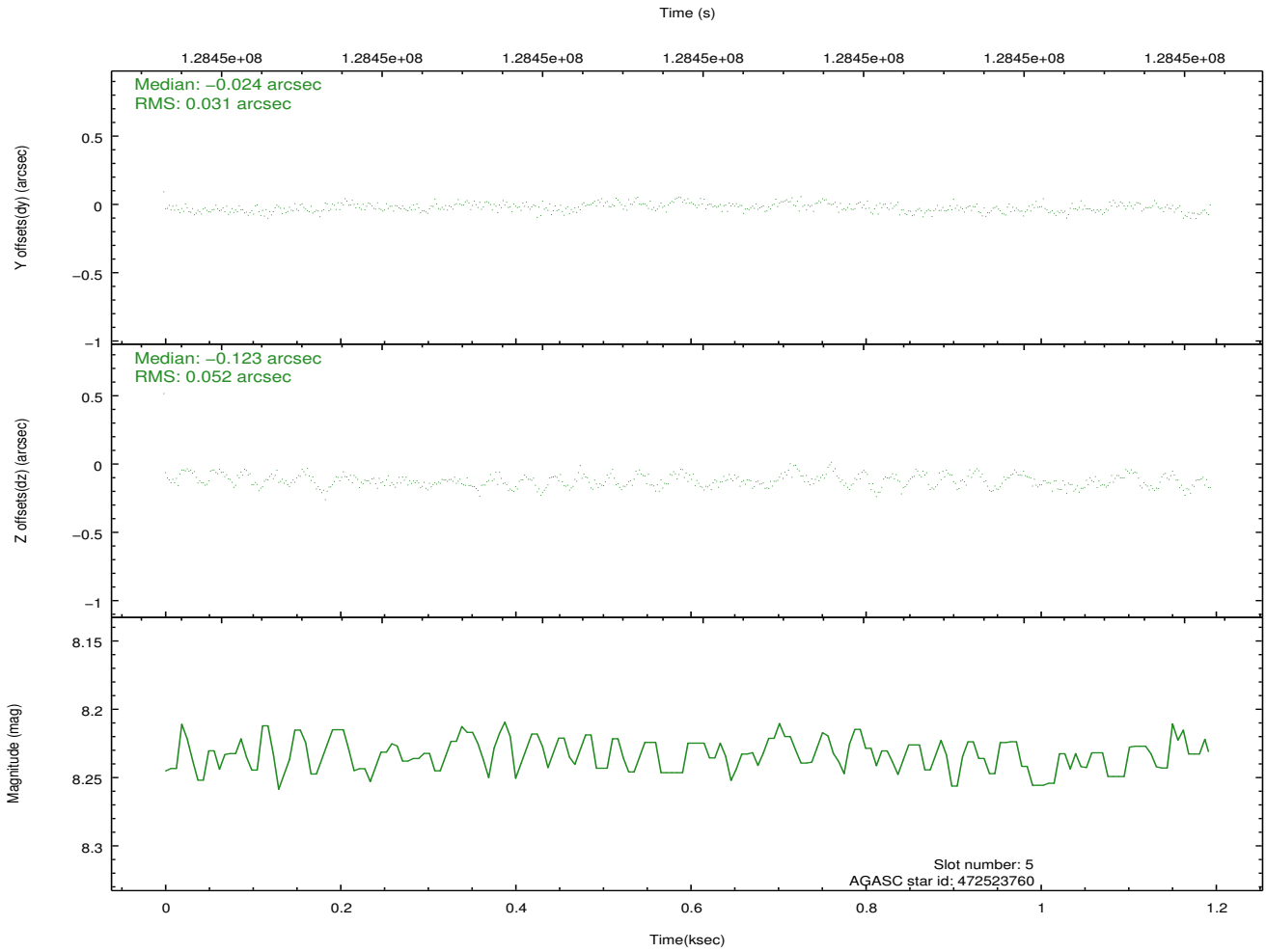
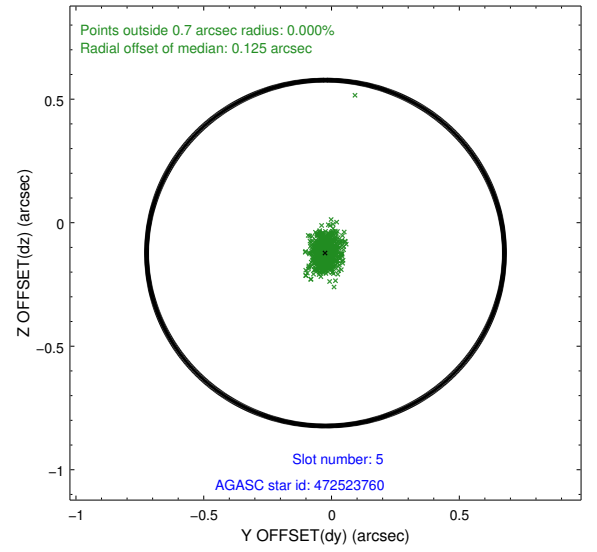
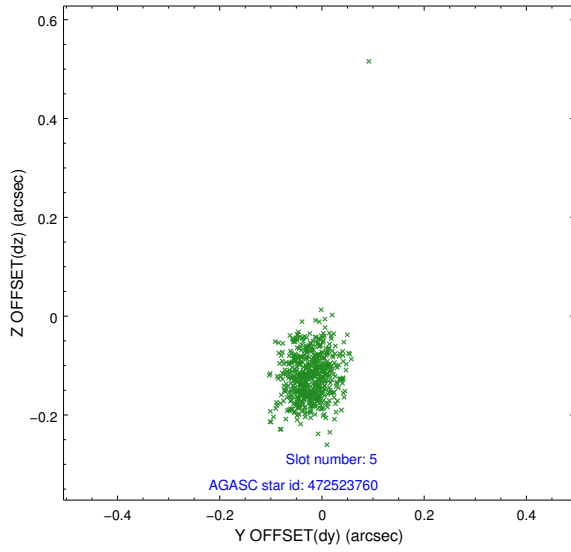
2.4.1 Slot 3



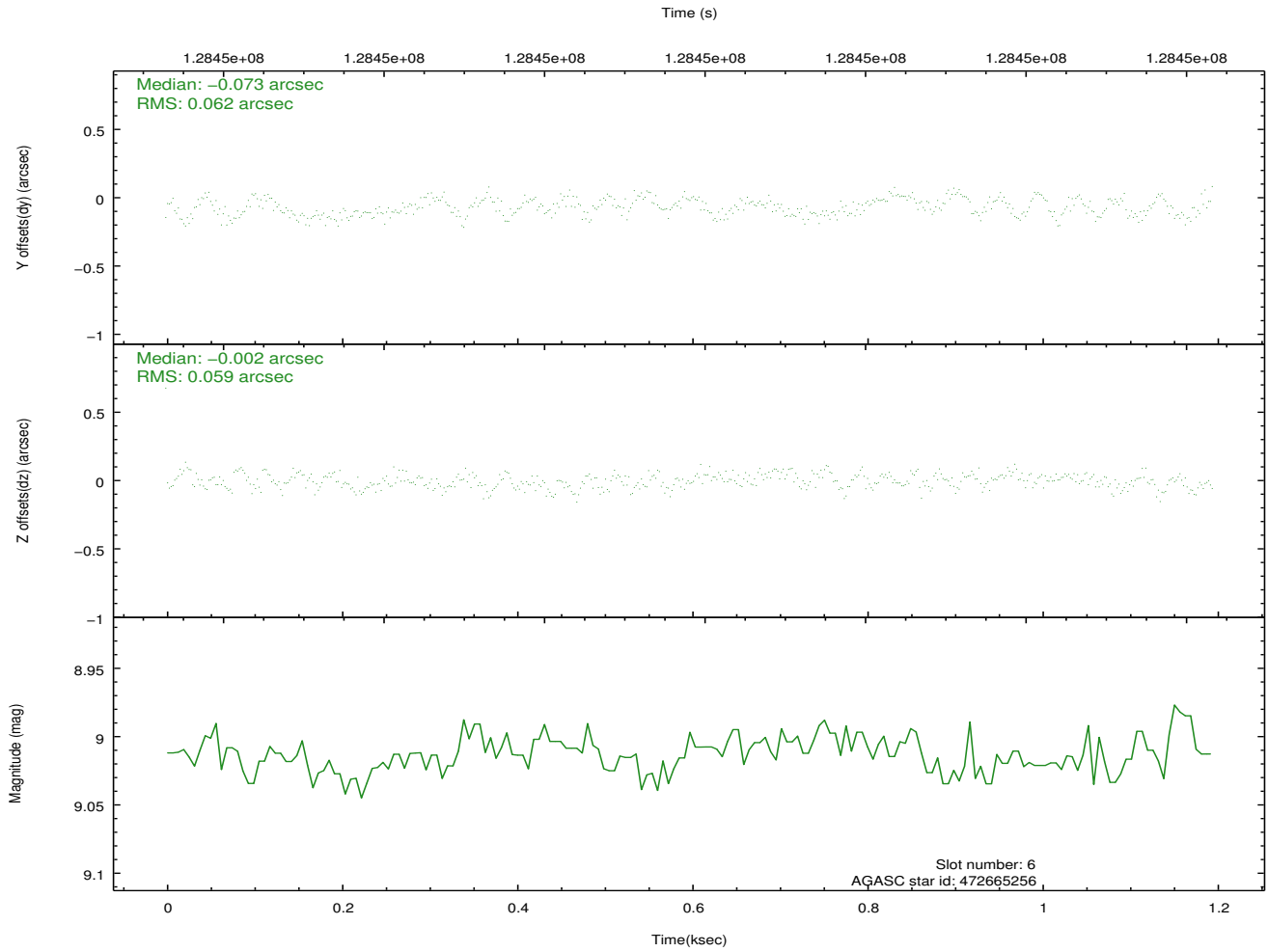
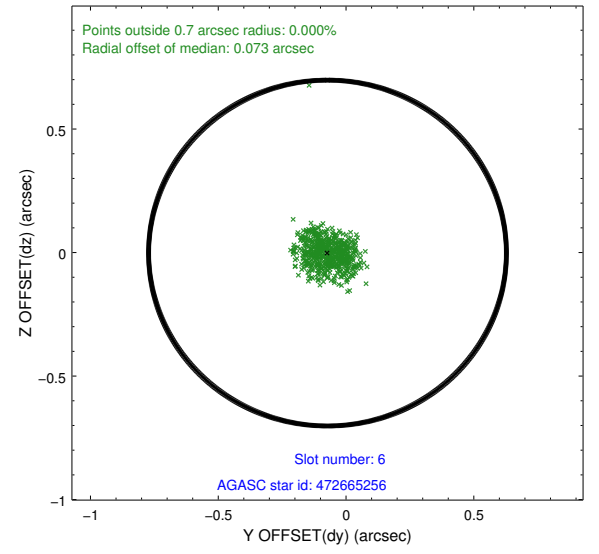
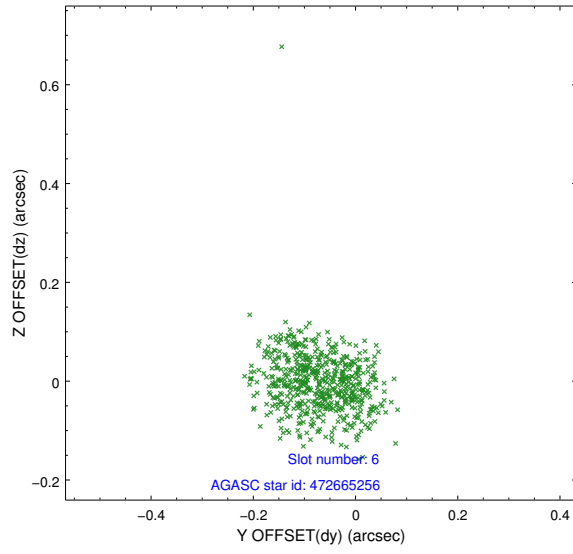
2.4.2 Slot 4



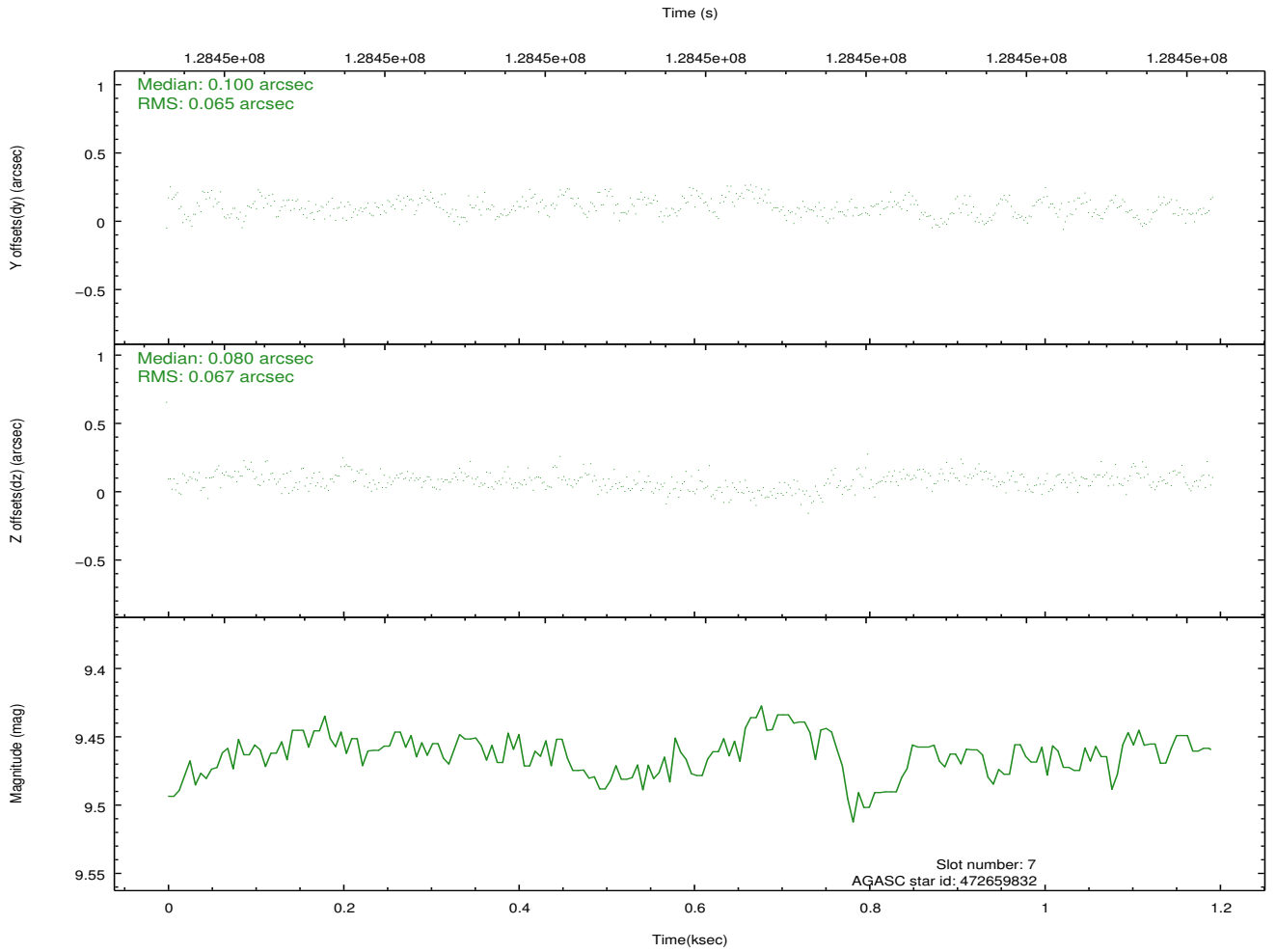
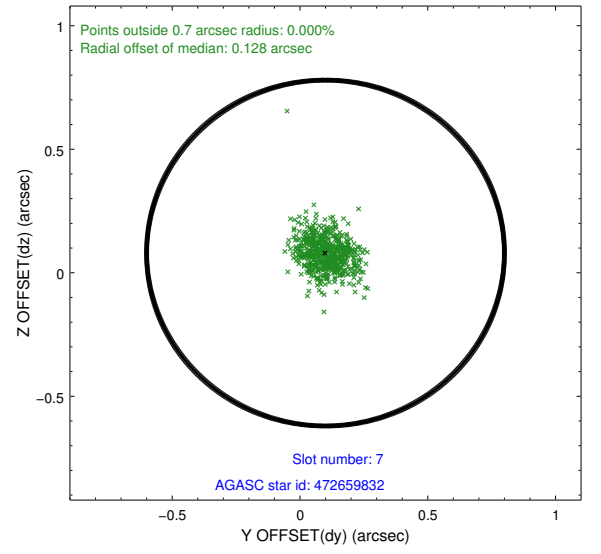
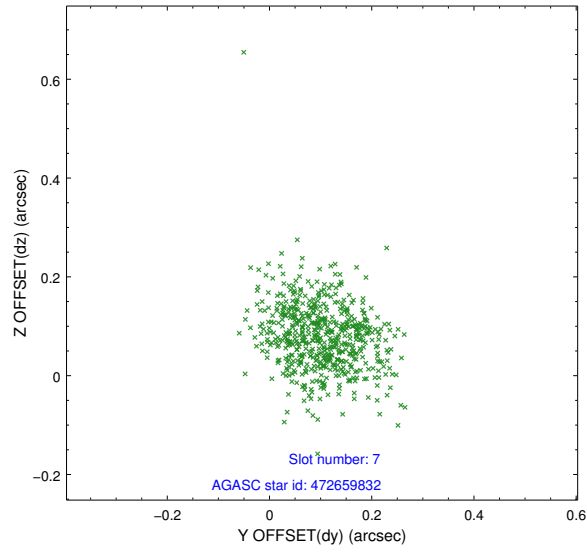
2.4.3 Slot 5



2.4.4 Slot 6

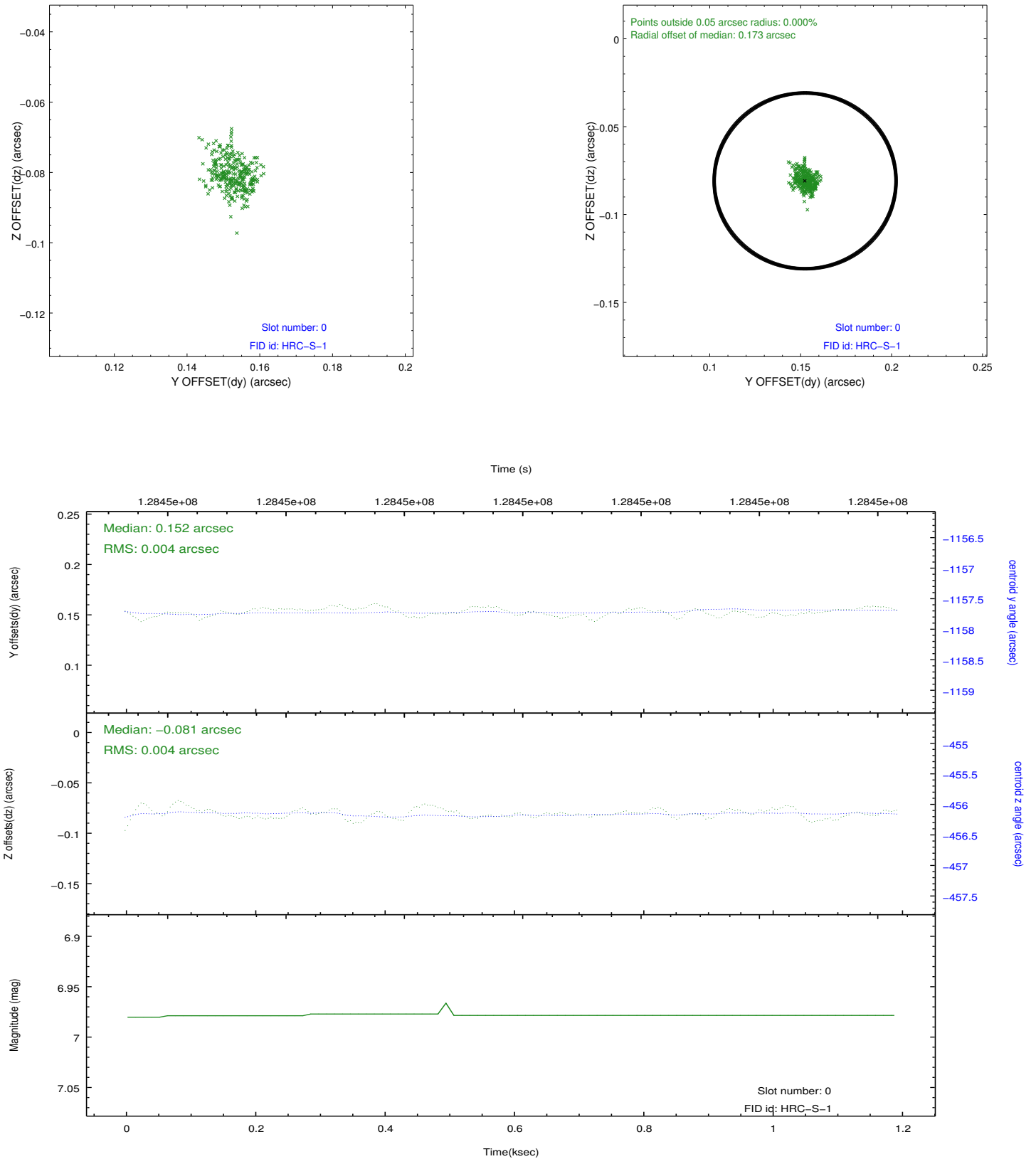


2.4.5 Slot 7

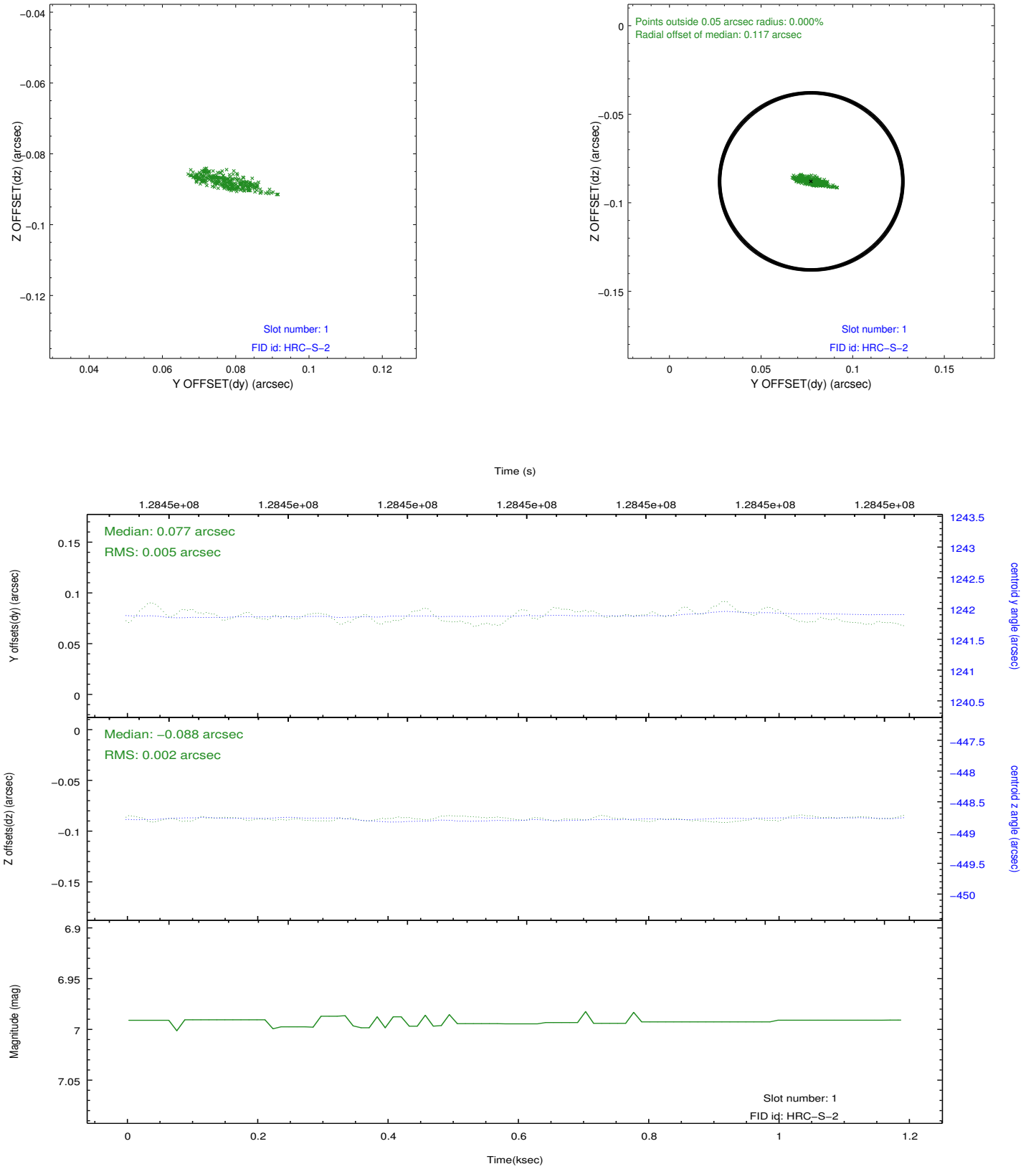


2.5 FID Slots

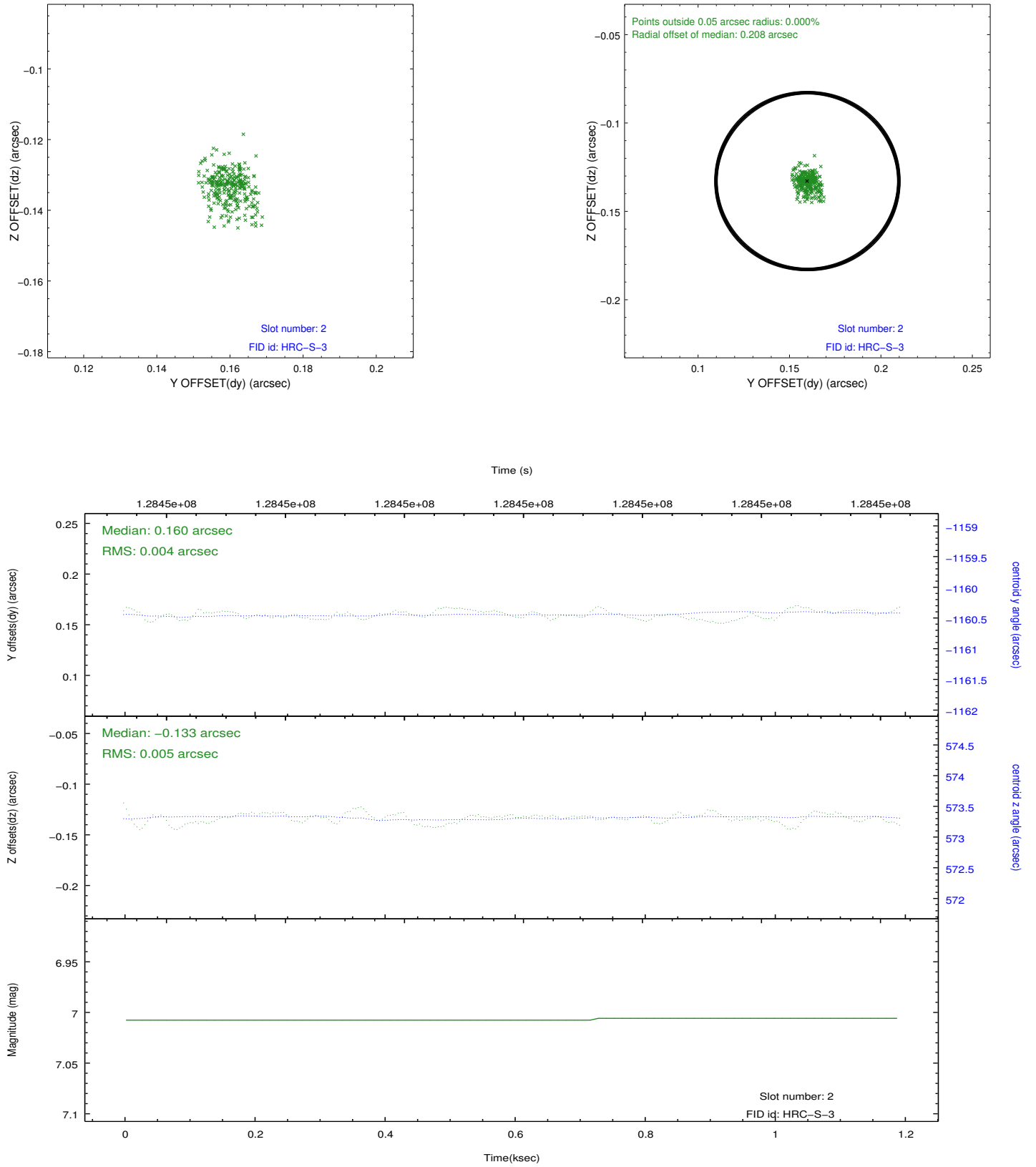
2.5.1 Slot 0



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) | 2012.10.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.188 |

A.2 Comments

Charge time for this observation remains at previous value of 1.188 ksec.