

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6510 - L2 Version 3
Chandra X-Ray Center

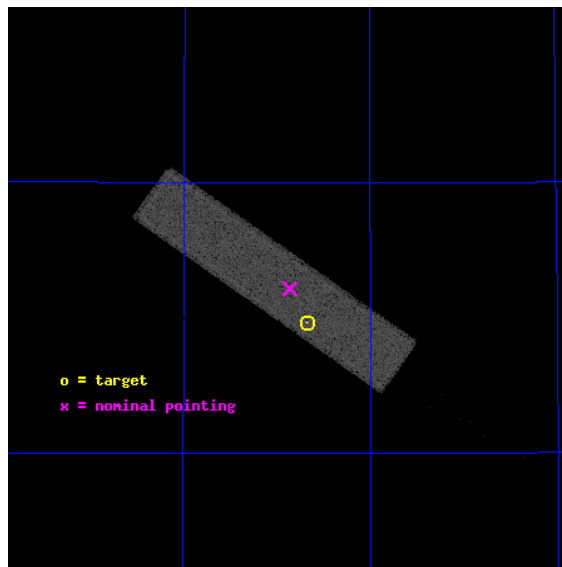
L2 Processing Date : Aug 11 2012

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1 Front

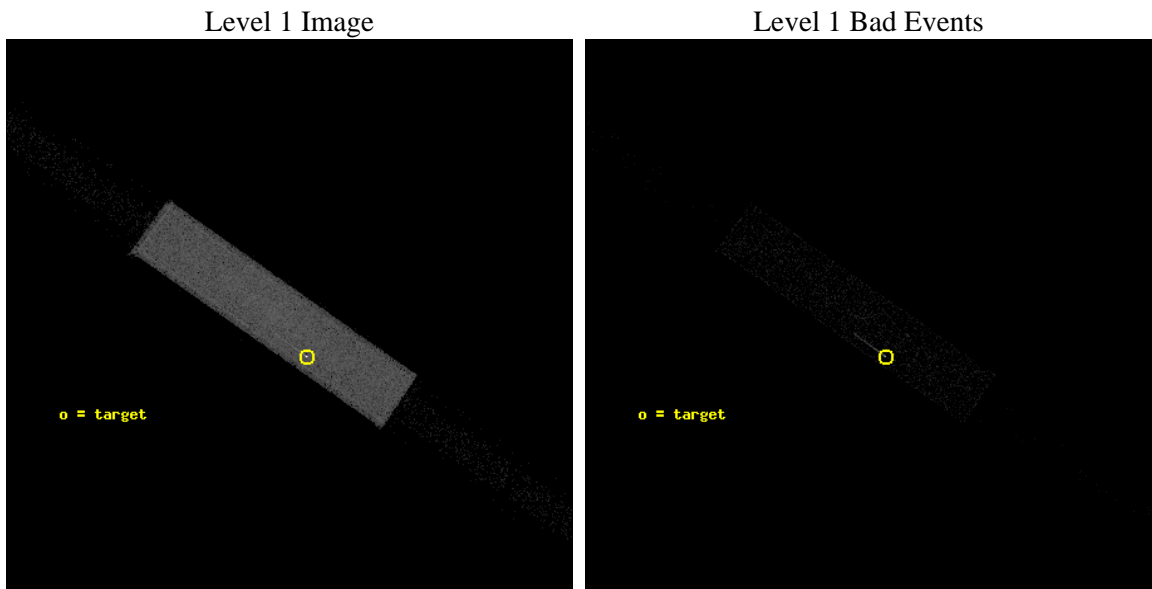
| | | |
|----------|---|---------------------------------------|
| seq_num | 290603 | Sequence number |
| obs_id | 6510 | Observation id |
| title | AO7B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| 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 | 332.21597791257 | Nominal RA [deg] |
| dec_nom | 45.804496684794 | Nominal Dec [deg] |
| roll_nom | 214.80004305967 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 1153.1250542402 | [s] |
| livetime | 1144.2202995003 | Ontime multiplied by DTCOR |
| l2events | 62372 | Number of level 2 events |



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 1000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 1153.1250542402 | [s] |
| caldbver | 4.5.1.1 | | l1events | 100303 | Number of level 1 events |
| date | 2012-08-11T13:58:19 | Date and time of file creation | | | |
| revision | 3 | Processing version of data | | | |

2.1.3 Events

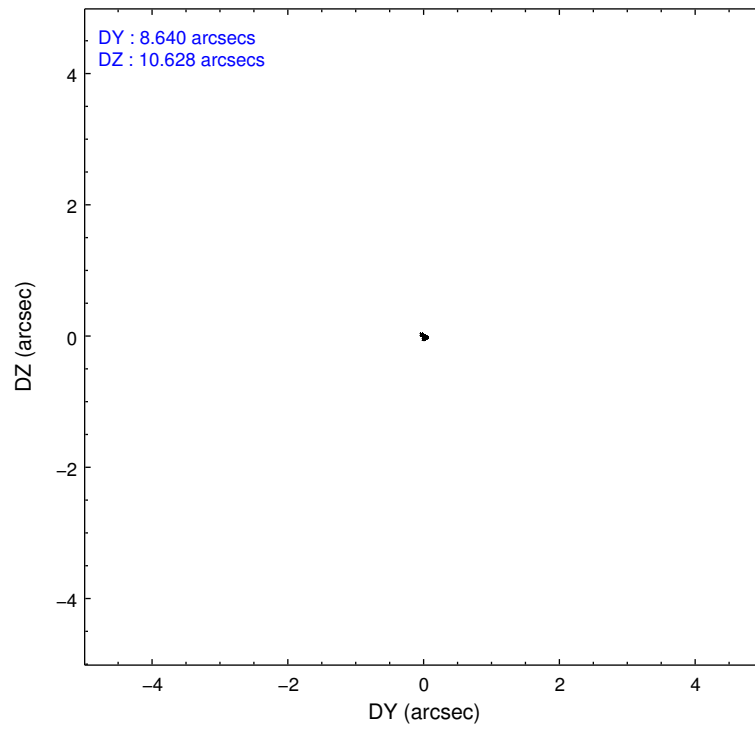
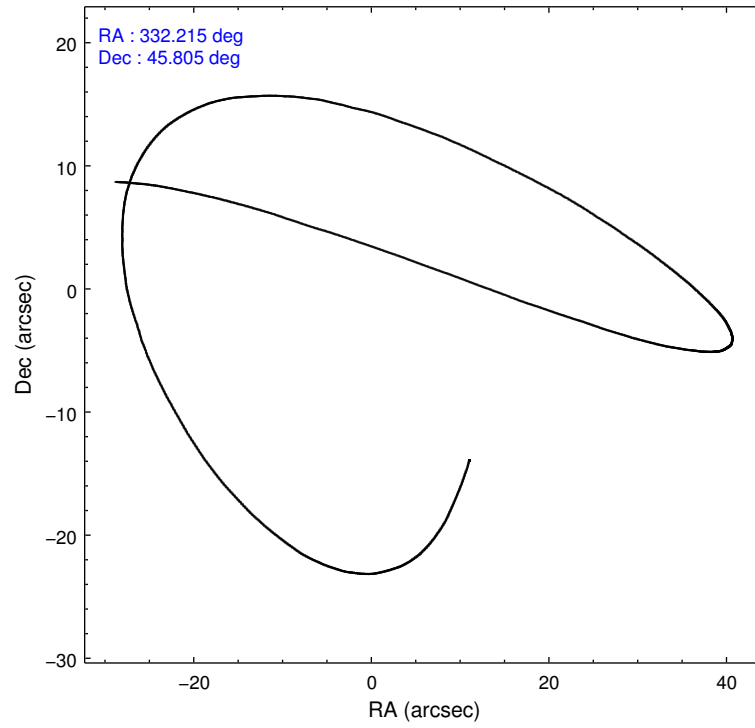
Level 1 Events

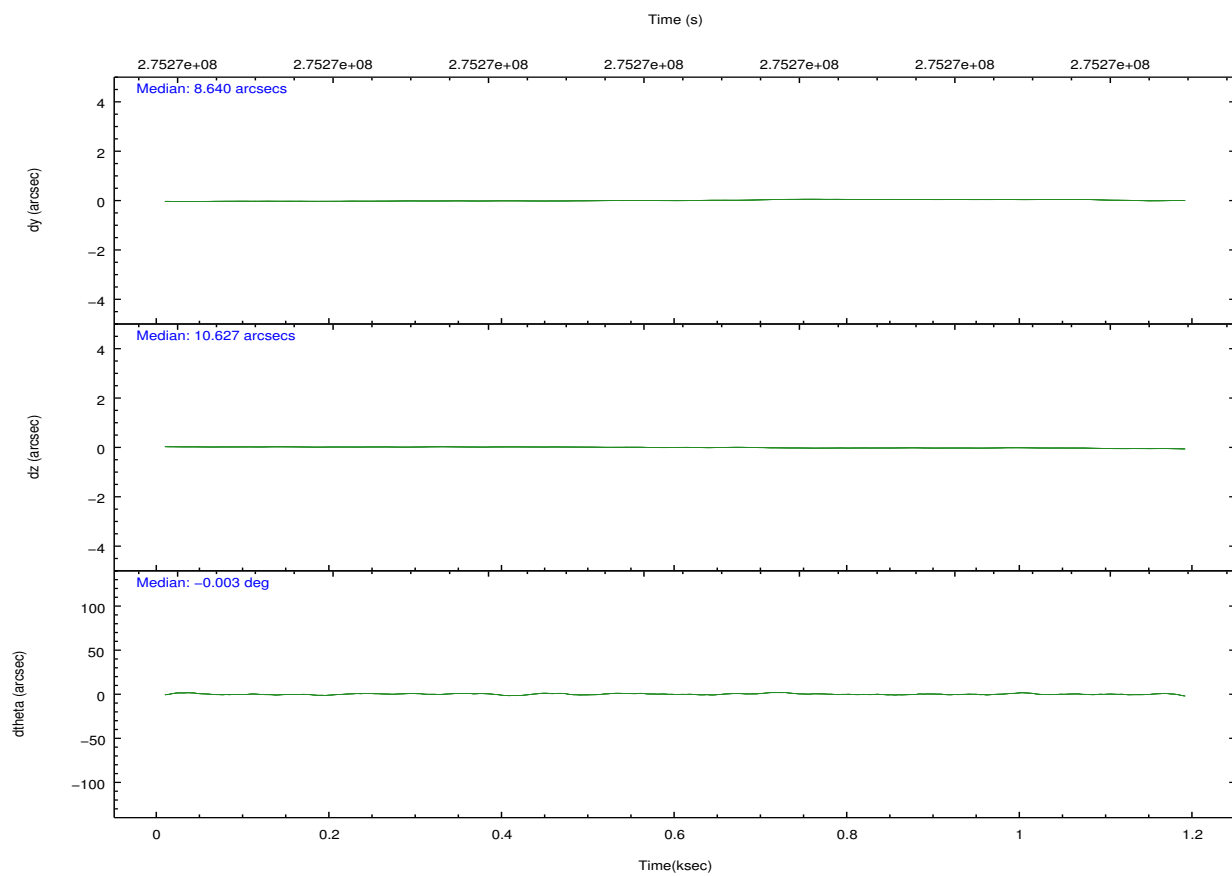
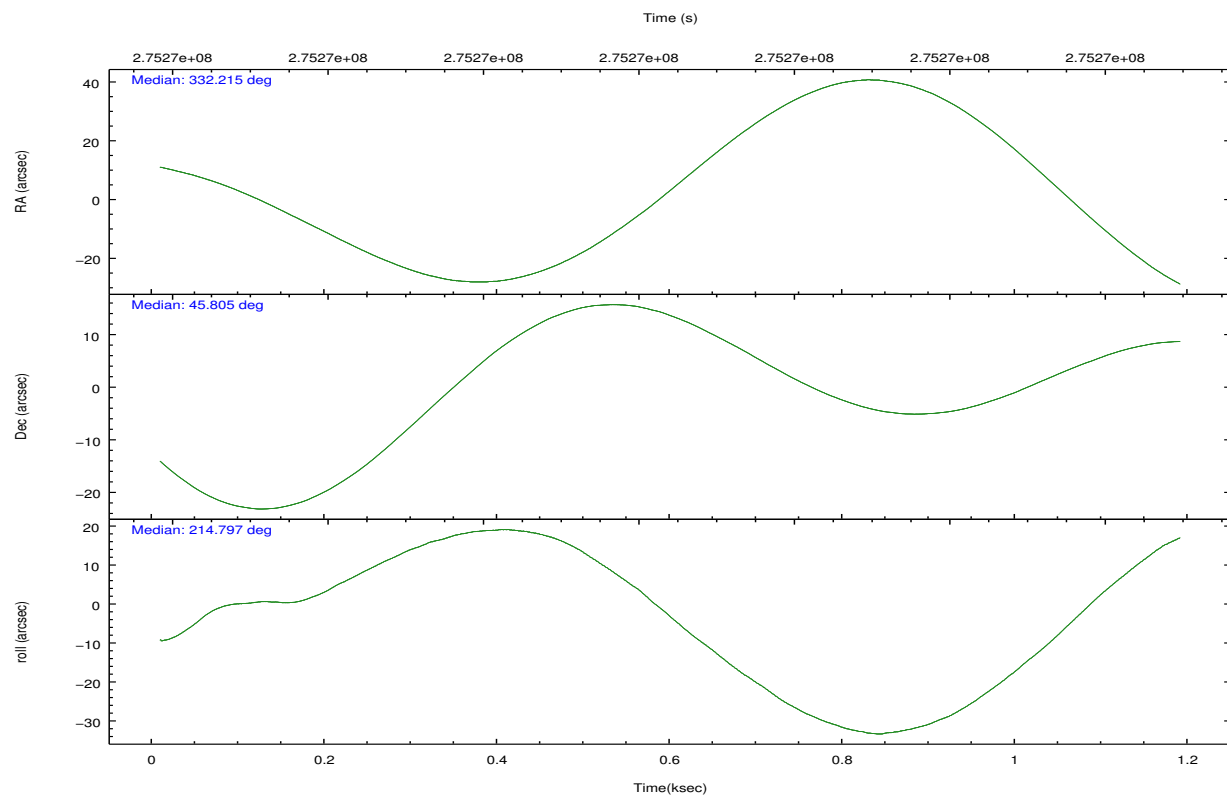
| | segment 1 | segment 2 | segment 3 |
|-----------------|----------------------|----------------------|----------------------|
| level 1 events | 881 | 98594 | 828 |
| rejected events | 881 | 22640 | 804 |
| rejected % | 100% | 22% | 97% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|-----------------------|----------------------|------------------------------|-----------|---------|
| Instrument | HRC | HRC | Obspar format version number | 7 | 7 |
| Detector | HRC-S | HRC-S | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | OBSERVING | OBSERVING | | | |
| Observation mode | POINTING | POINTING | | | |
| [deg] Pointing RA | 332.231299 | 332.2159779125749 | | | |
| [deg] Pointing Dec | 45.831584 | 45.8044966847937 | | | |
| [deg] Pointing Roll | 214.721715 | 214.8000430596678 | | | |
| [mm] SIM focus pos | -1.533336 | -1.526339935833849 | | | |
| [mm] SIM defocus | 7.710433287538843e-07 | 0.006996703570447904 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 275273440.184000 | 275273064.4682 | | | |
| Observation start date | 2006-09-22T00:49:35 | 2006-09-22T00:44:24 | | | |
| [s] Observation end time (MET) | 275274440.184000 | 275274574.80577 | | | |
| Observation end date | 2006-09-22T01:06:15 | 2006-09-22T01:09:34 | | | |

2.3 Aspect



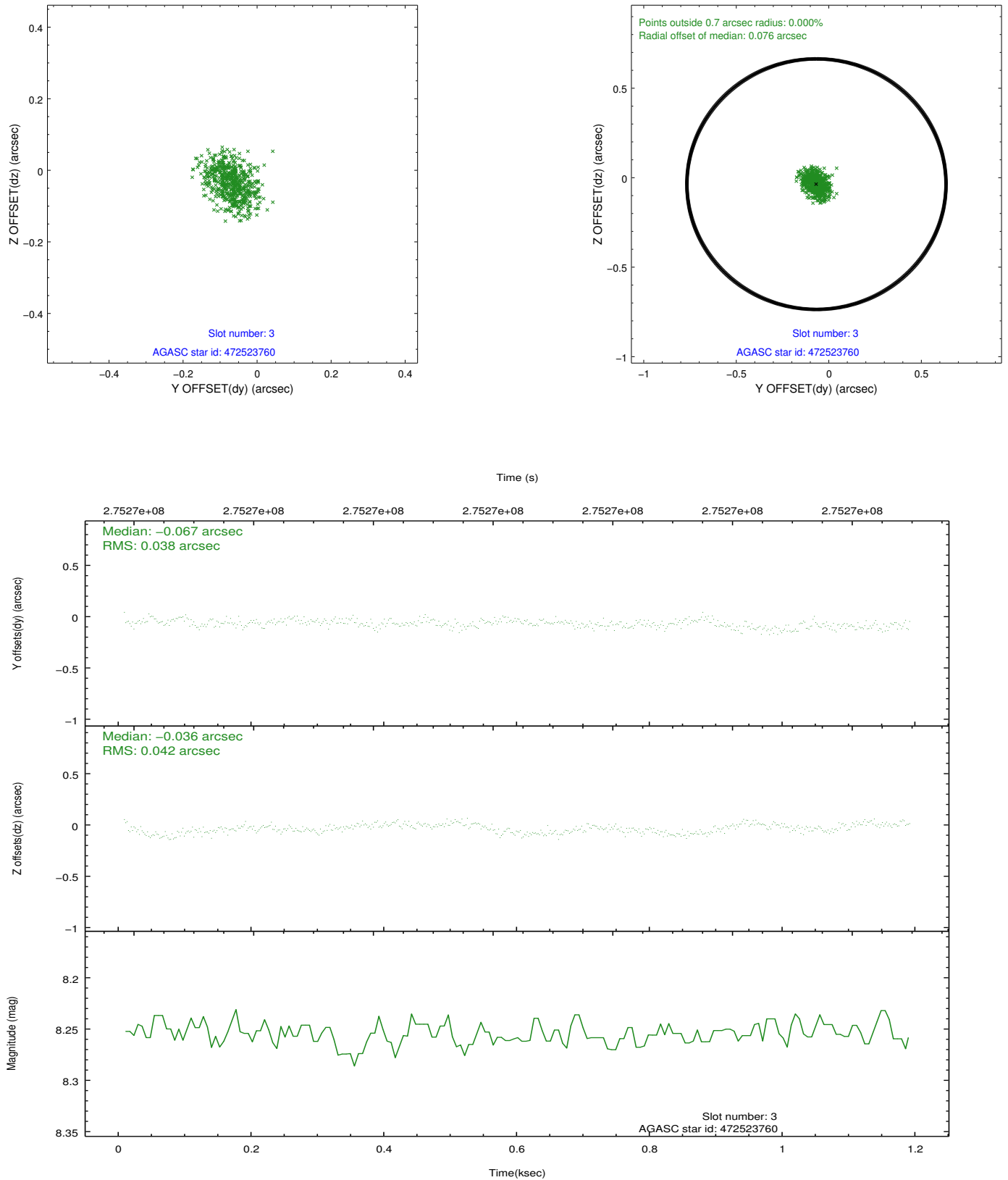


Slot Statistics

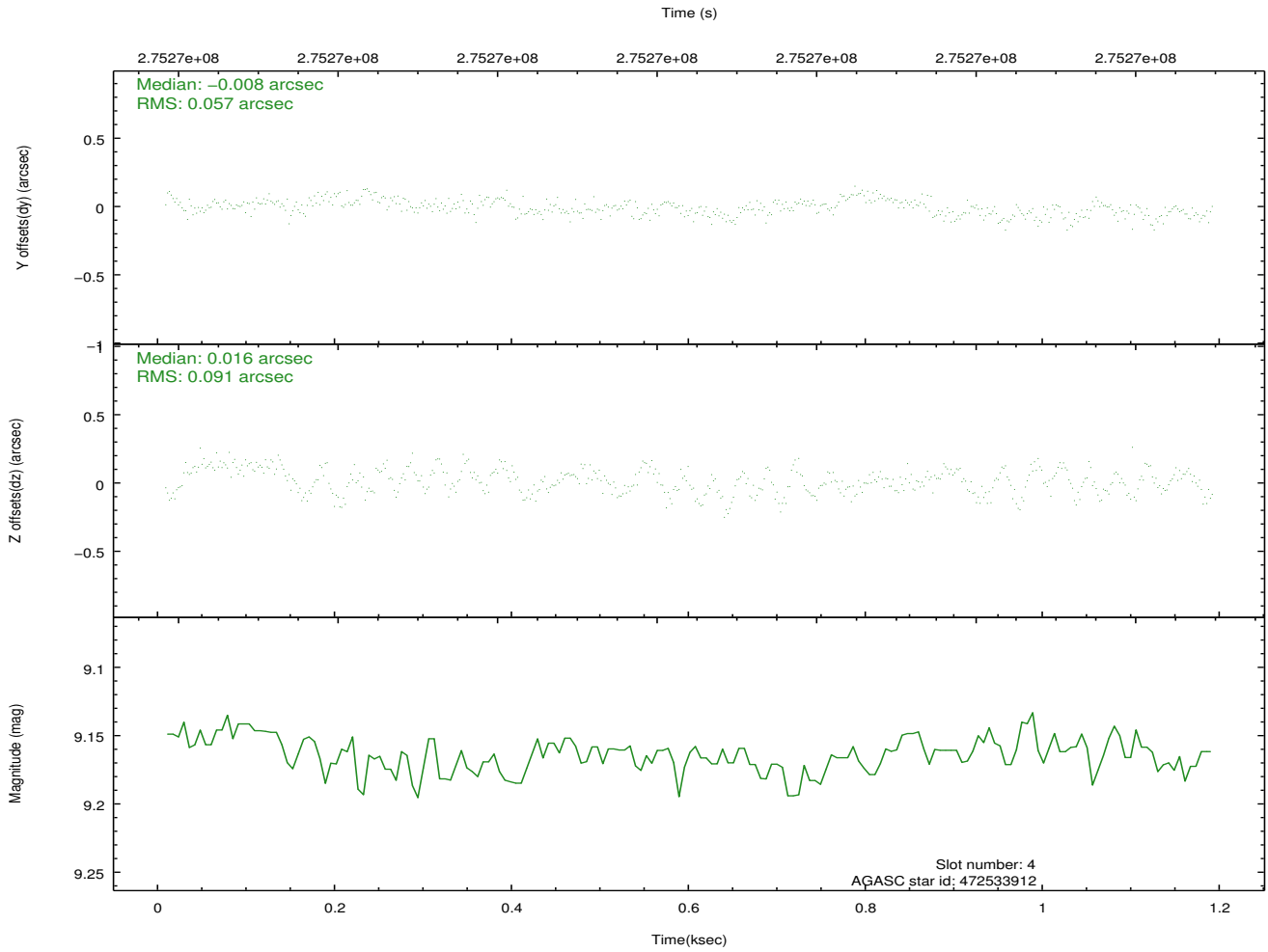
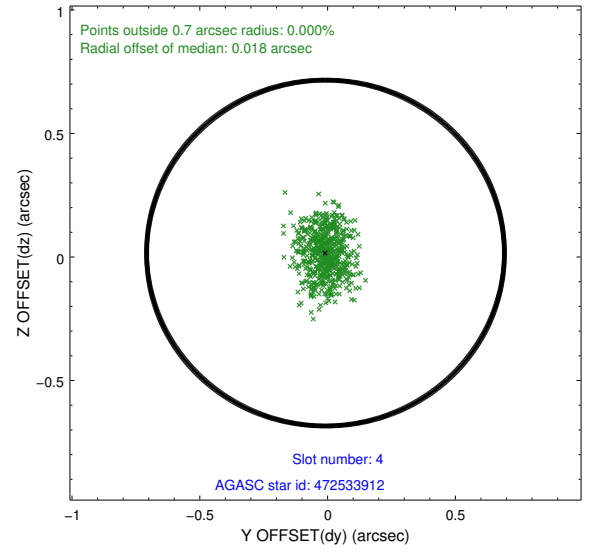
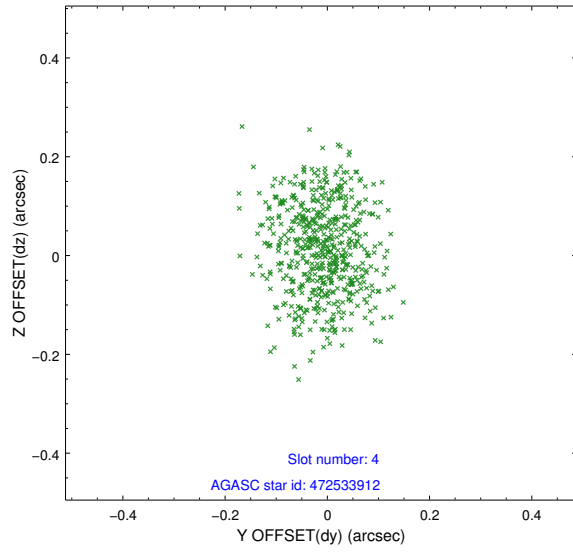
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | HRC-S-1 | 7.06 | 289 | 0.145 | -0.195 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1162.81 | -459.36 |
| 1 | FID | HRC-S-2 | 7.05 | 289 | 0.155 | -0.118 | 0.004 | 0.009 | 0.000000 | 0.000000 | 1232.83 | -453.52 |
| 2 | FID | HRC-S-3 | 7.07 | 289 | 0.090 | 0.010 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1161.32 | 568.80 |
| 3 | GUIDE | 472523760 | 8.25 | 578 | -0.067 | -0.036 | 0.062 | 0.097 | 331.645363 | 45.403260 | 2092.13 | 417.48 |
| 4 | GUIDE | 472533912 | 9.16 | 578 | -0.008 | 0.016 | 0.118 | 0.180 | 331.791136 | 46.368695 | -200.96 | -2215.85 |
| 5 | GUIDE | 472654568 | 9.43 | 578 | -0.003 | 0.080 | 0.113 | 0.180 | 332.194449 | 45.063576 | 1651.03 | 2213.51 |
| 6 | GUIDE | 472655152 | 9.43 | 577 | 0.020 | -0.121 | 0.109 | 0.182 | 332.504239 | 45.862991 | -624.99 | 297.61 |
| 7 | GUIDE | 472665256 | 9.02 | 577 | 0.055 | 0.079 | 0.081 | 0.128 | 332.808125 | 46.195041 | -1931.02 | -262.58 |

2.4 Star Slots

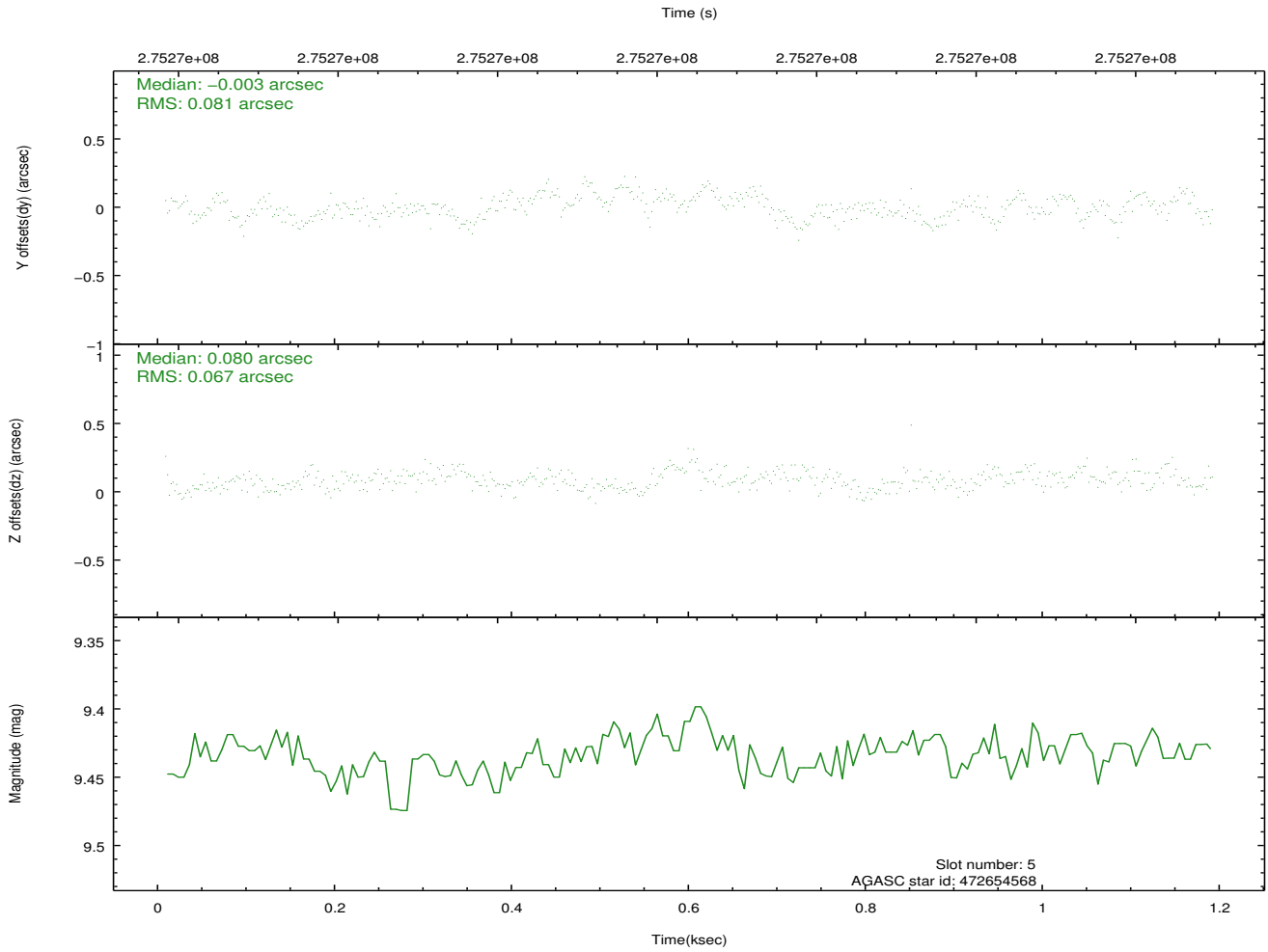
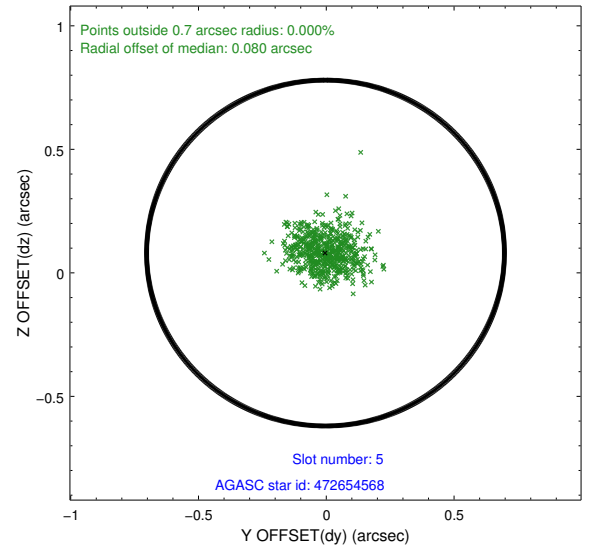
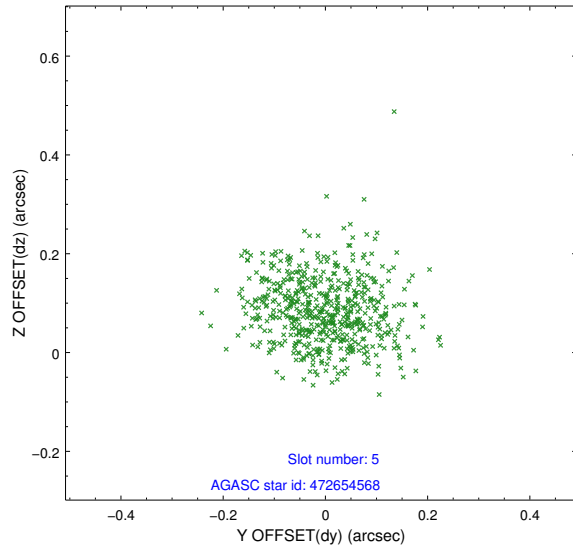
2.4.1 Slot 3



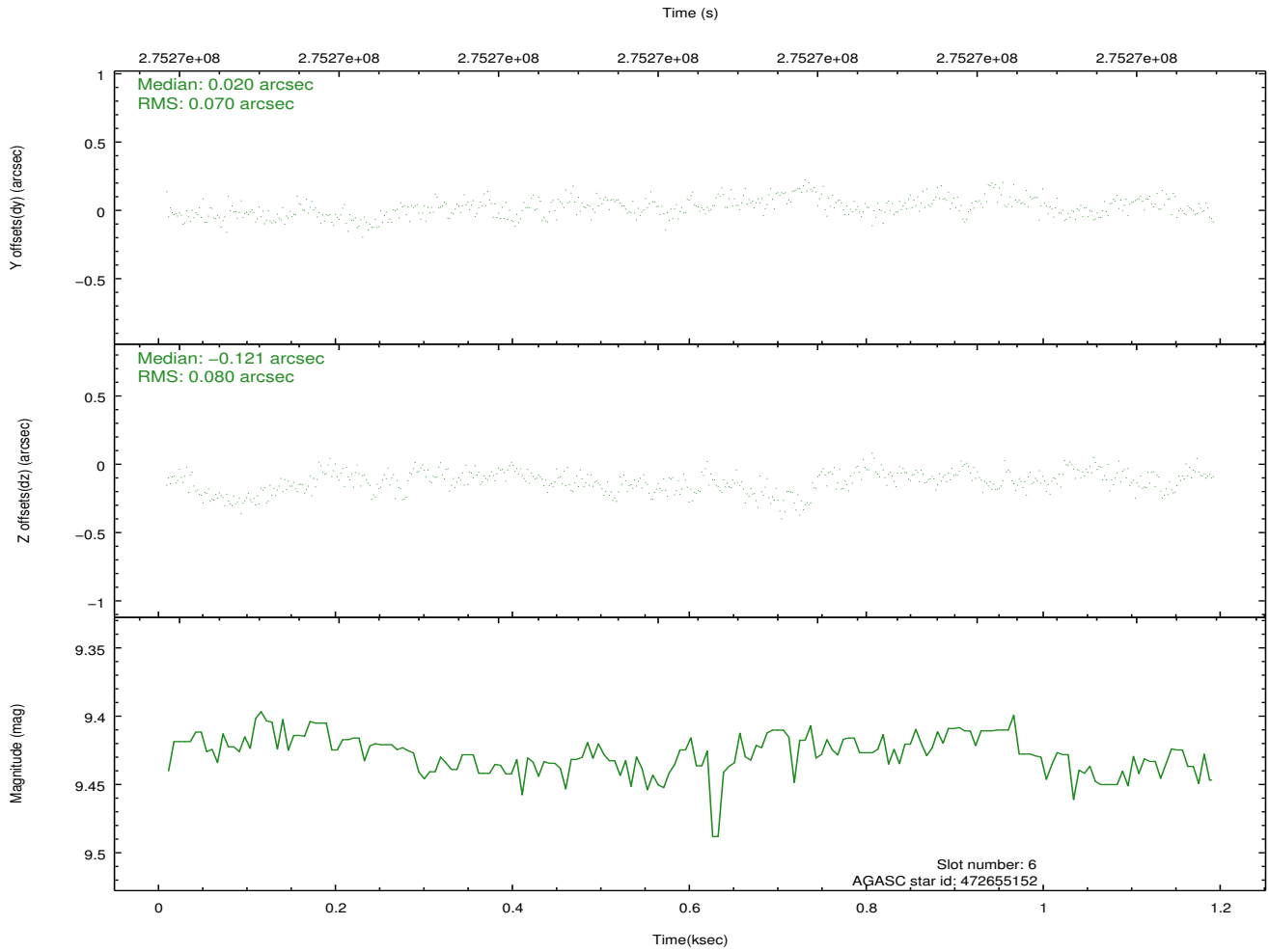
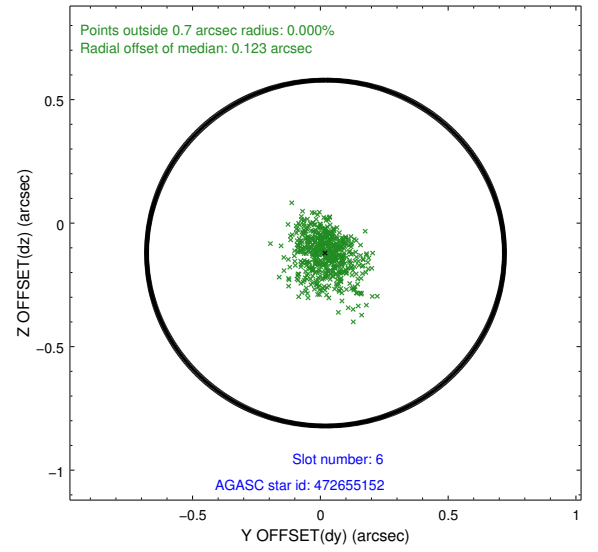
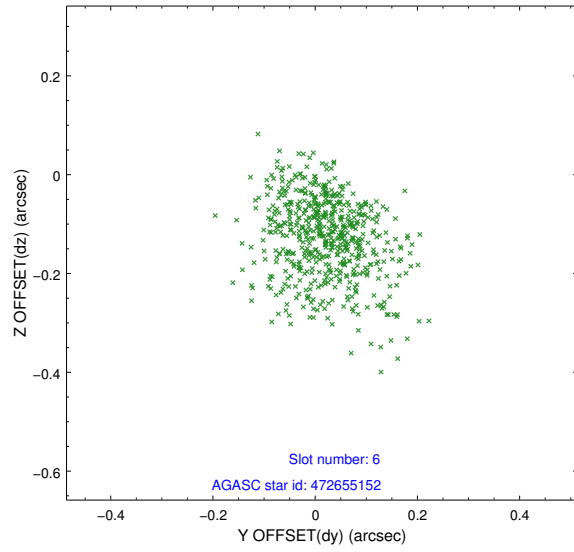
2.4.2 Slot 4



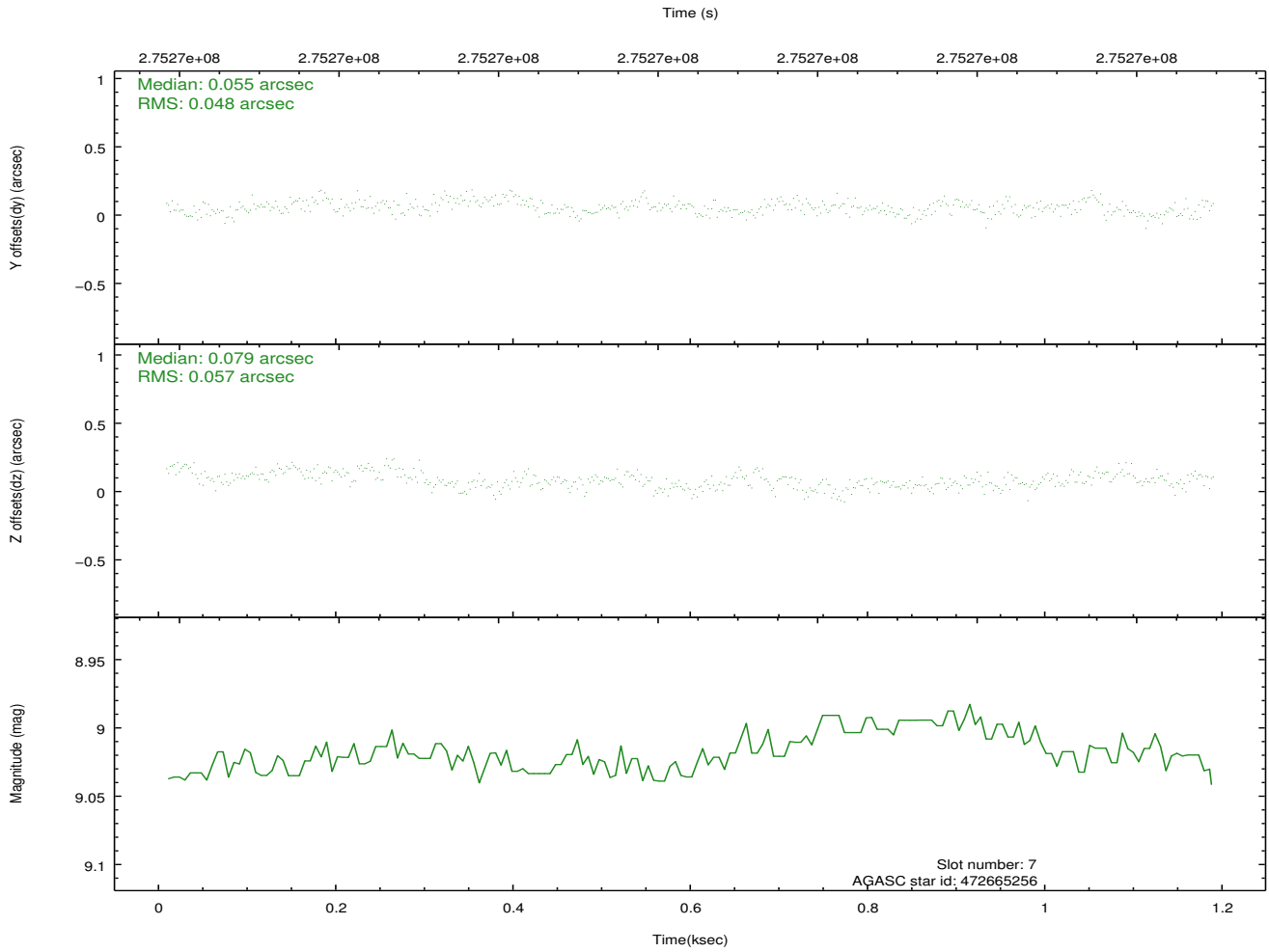
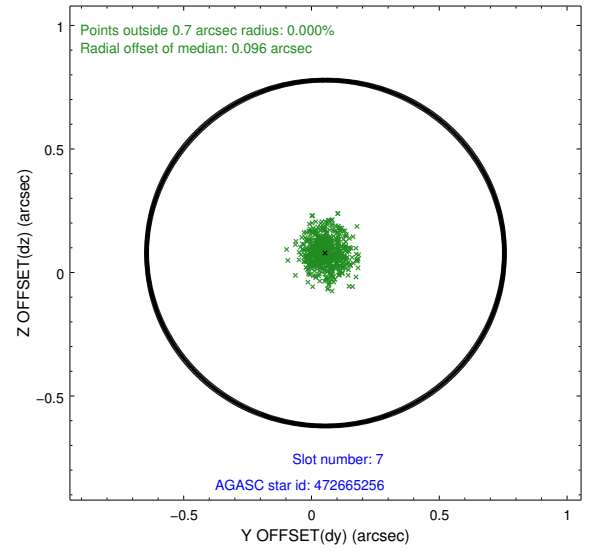
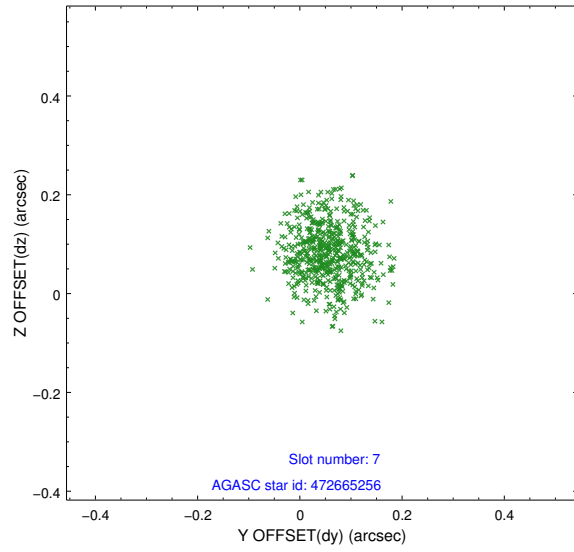
2.4.3 Slot 5



2.4.4 Slot 6

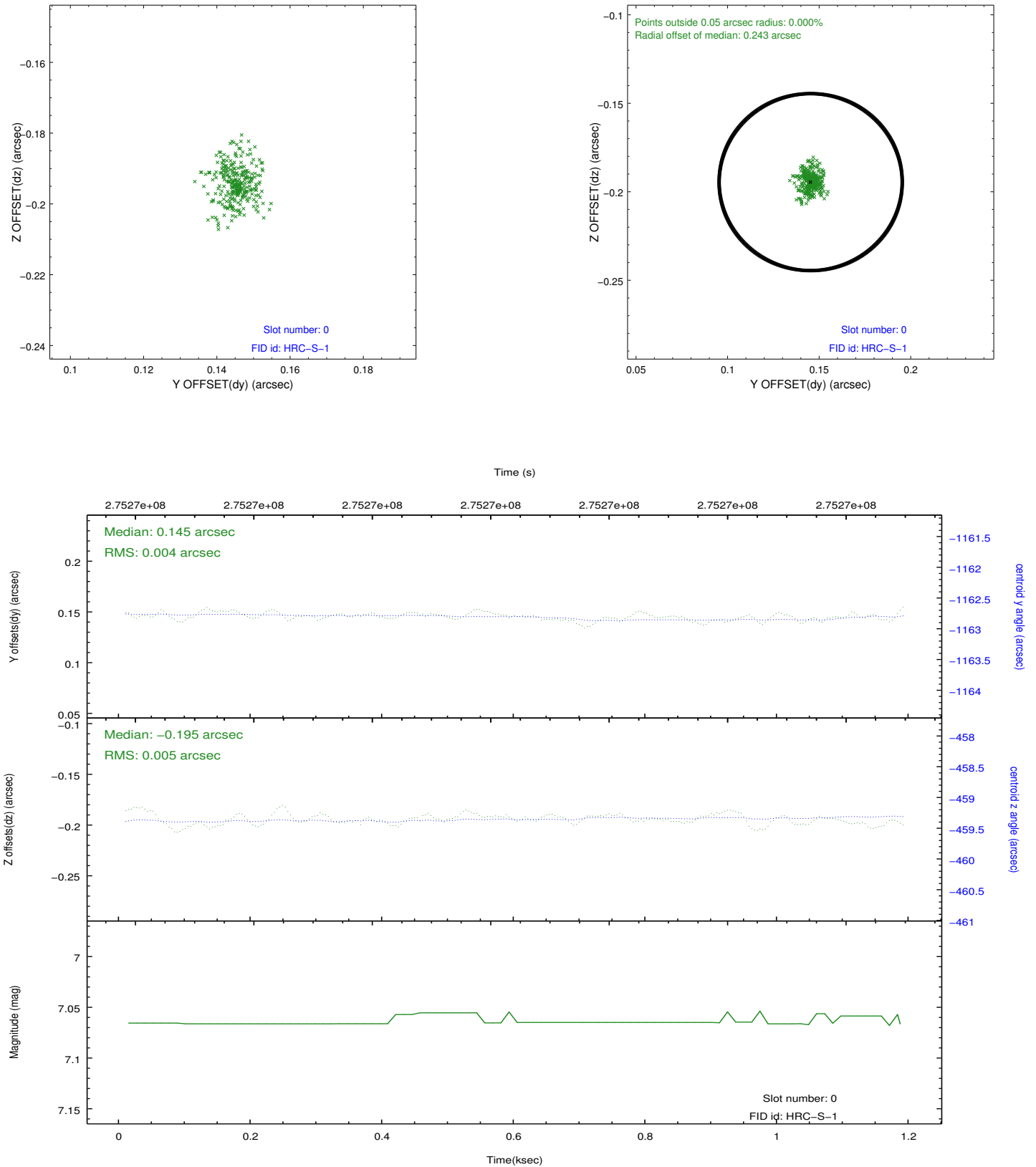


2.4.5 Slot 7

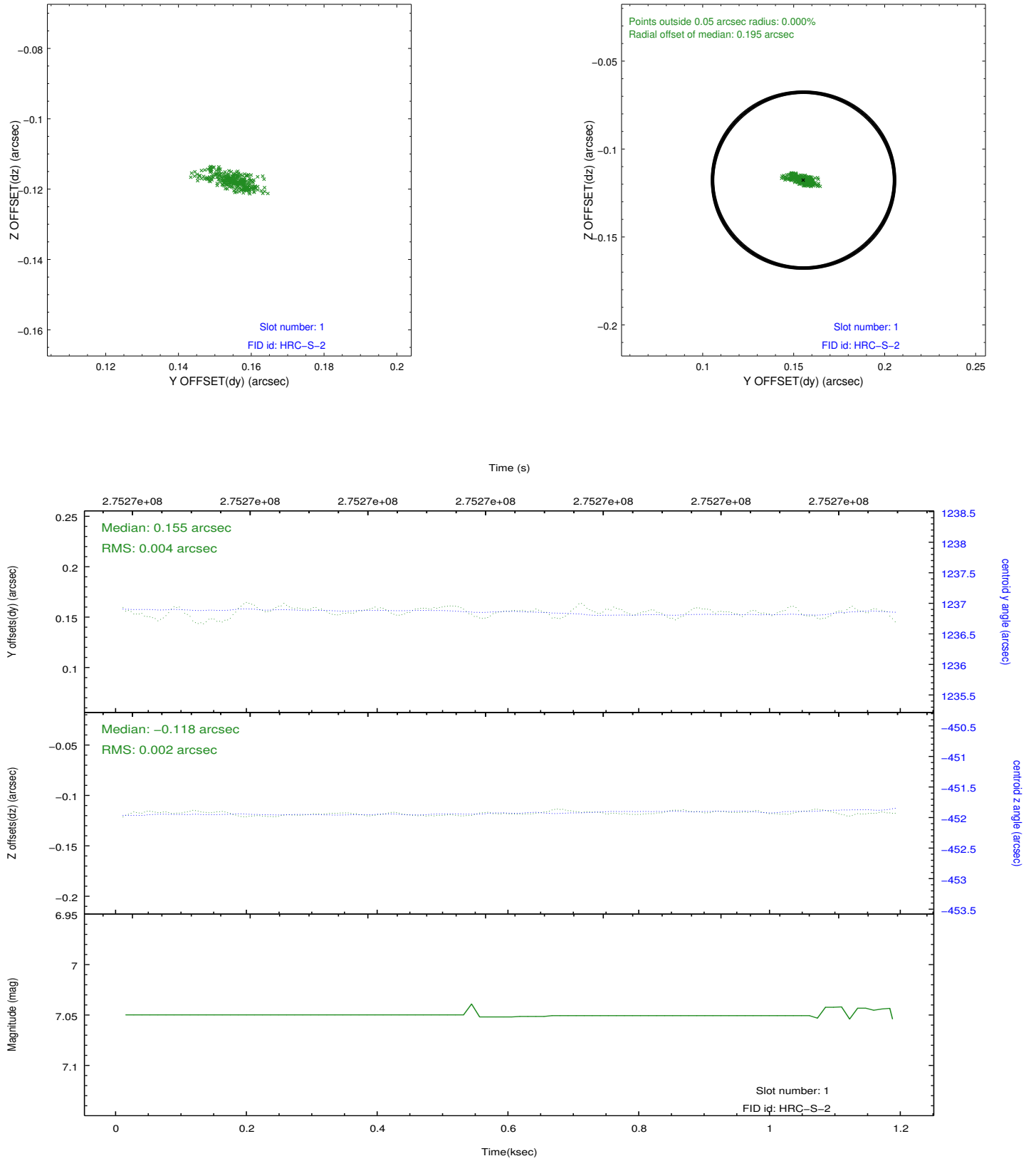


2.5 FID Slots

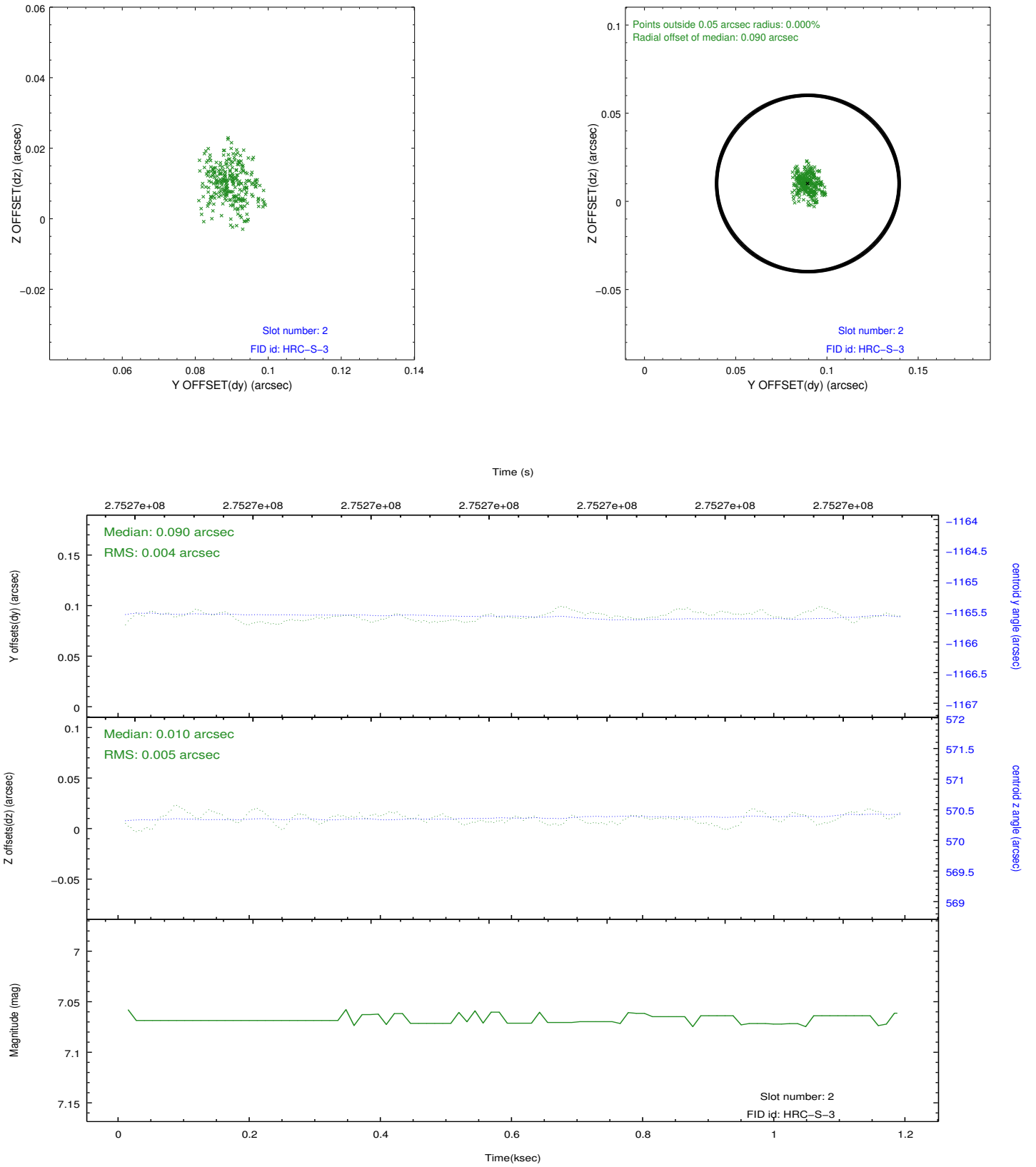
2.5.1 Slot 0



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) | 2012.08.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.1533813 |

A.2 Comments