

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 255 - L2 Version 5
Chandra X-Ray Center

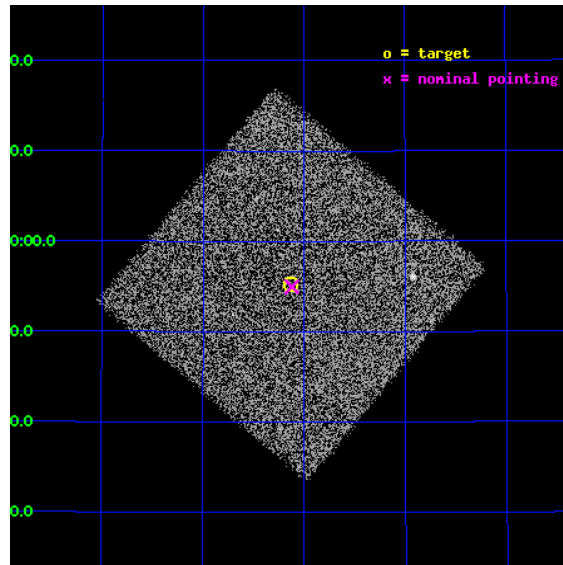
L2 Processing Date : Jan 25 2013

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1 Front

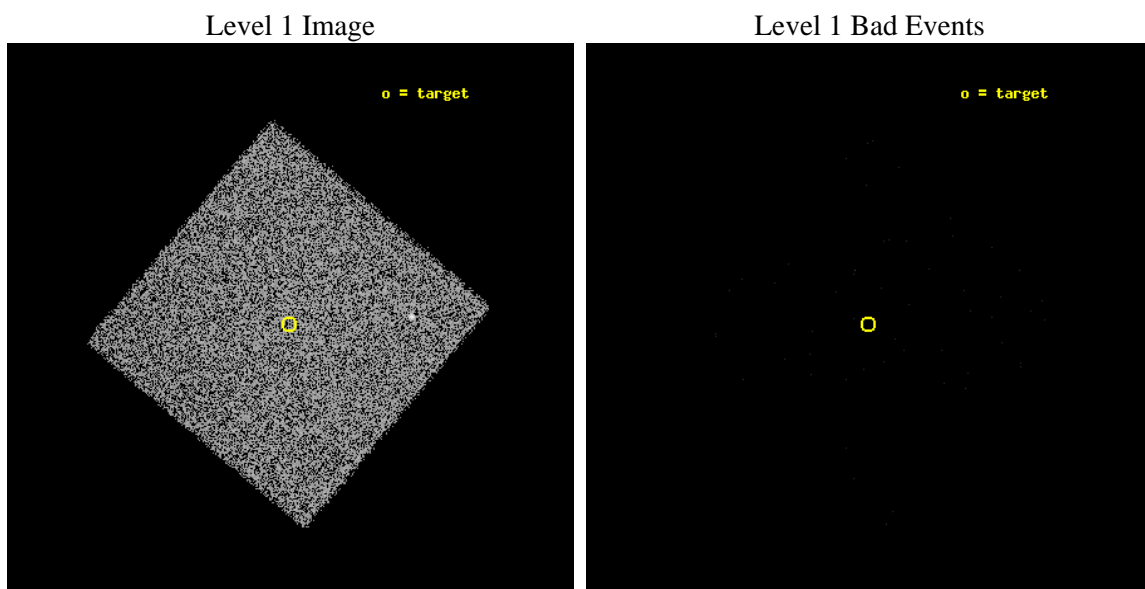
| | | |
|----------|--------------------|---------------------------------------|
| seq_num | 600015 | Sequence number |
| obs_id | 255 | Observation id |
| title | MONITORING M31 | Proposal title |
| observer | Dr. Stephen Murray | Principal investigator |
| object | M31 - South 1 | Source name |
| ra_targ | 10.533333 | Observer's specified target RA [deg] |
| dec_targ | 40.921389 | Observer's specified target Dec [deg] |
| ra_nom | 10.530317581876 | Nominal RA [deg] |
| dec_nom | 40.91610809533 | Nominal Dec [deg] |
| roll_nom | 265.20040657921 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 1275.3562961072 | [s] |
| livetime | 1267.5822196709 | Ontime multiplied by DTCOR |
| l2events | 37185 | 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 | 8.5.1.1 | Processing system revision | ontime | 1275.3562961072 | [s] |
| caldbver | 4.5.5 | | l1events | 59415 | Number of level 1 events |
| date | 2013-01-25T22:14:18 | Date and time of file creation | | | |
| revision | 5 | Processing version of data | | | |

2.1.3 Events

Level 1 Events

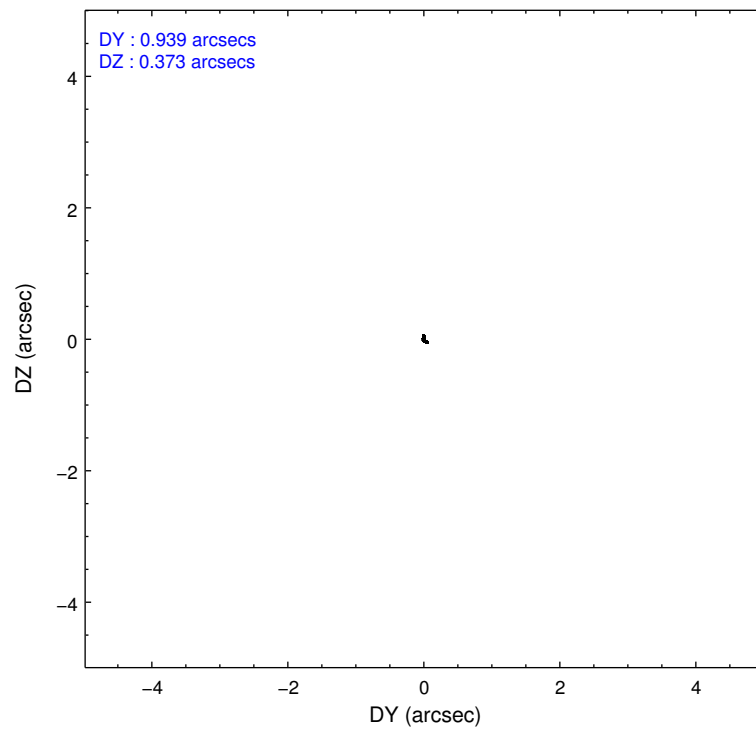
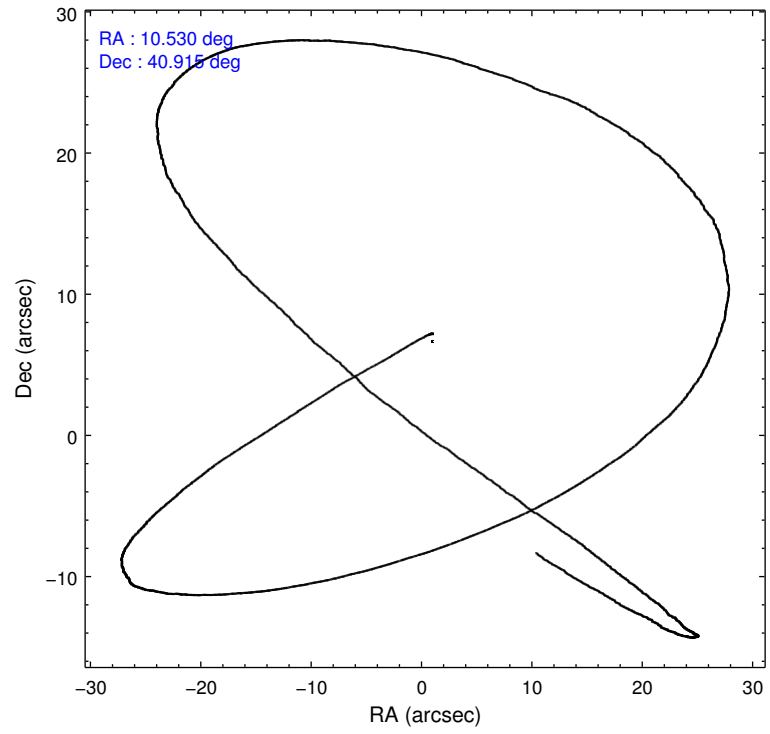
| | |
|-----------------|----------------------|
| | segment 0 |
| level 1 events | 59415 |
| rejected events | 2346 |
| rejected % | 3% |

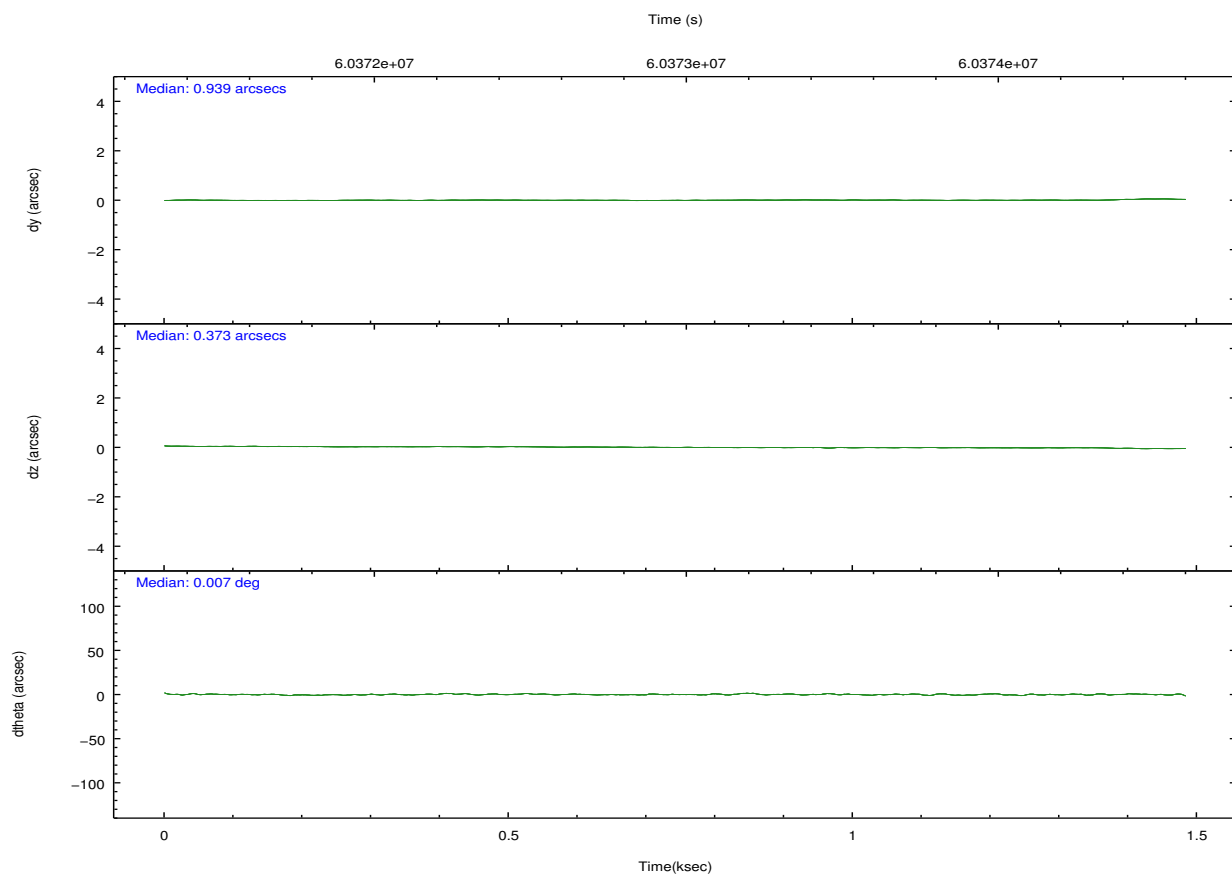
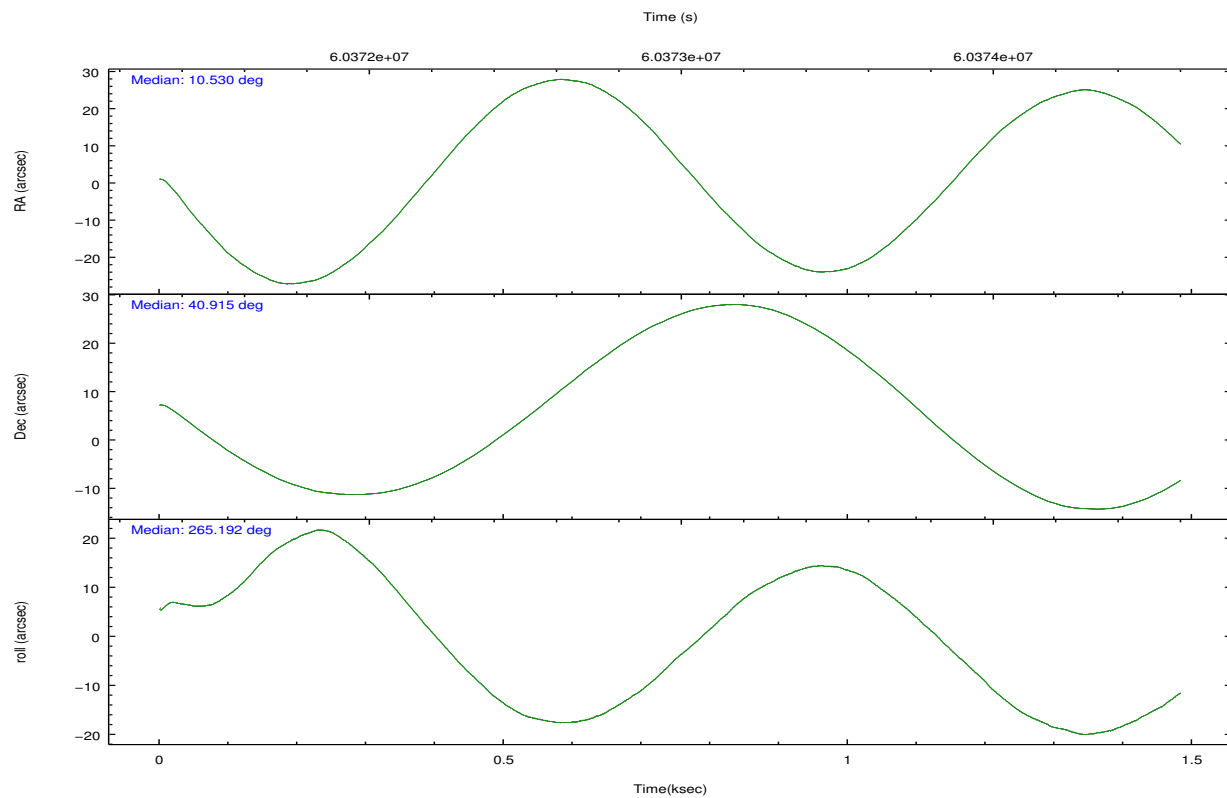
2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | HRC | HRC |
| Detector | HRC-I | HRC-I |
| Grating | NONE | NONE |
| Data mode | OBSERVING | OBSERVING |
| Observation mode | POINTING | POINTING |
| [deg] Pointing RA | 10.514762 | 10.53031758187626 |
| [deg] Pointing Dec | 40.941932 | 40.91610809533027 |
| [deg] Pointing Roll | 265.306032 | 265.2004065792132 |
| [mm] SIM focus pos | -1.040293 | -1.038866356238299 |
| [mm] SIM defocus | 0 | 0.001426264420575141 |
| [mm] SIM translation stage pos | 126.985494 | 126.9829799899862 |
| [mm] SIM translation stage offset | 0 | 0.002508901615314585 |
| [s] Observation start time (MET) | 60372725.184000 | 60372059.150128 |
| Observation start date | 1999-11-30T18:11:01 | 1999-11-30T18:00:59 |
| [s] Observation end time (MET) | 60373725.184000 | 60373859.050193 |
| Observation end date | 1999-11-30T18:27:41 | 1999-11-30T18:30:59 |

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

2.3 Aspect



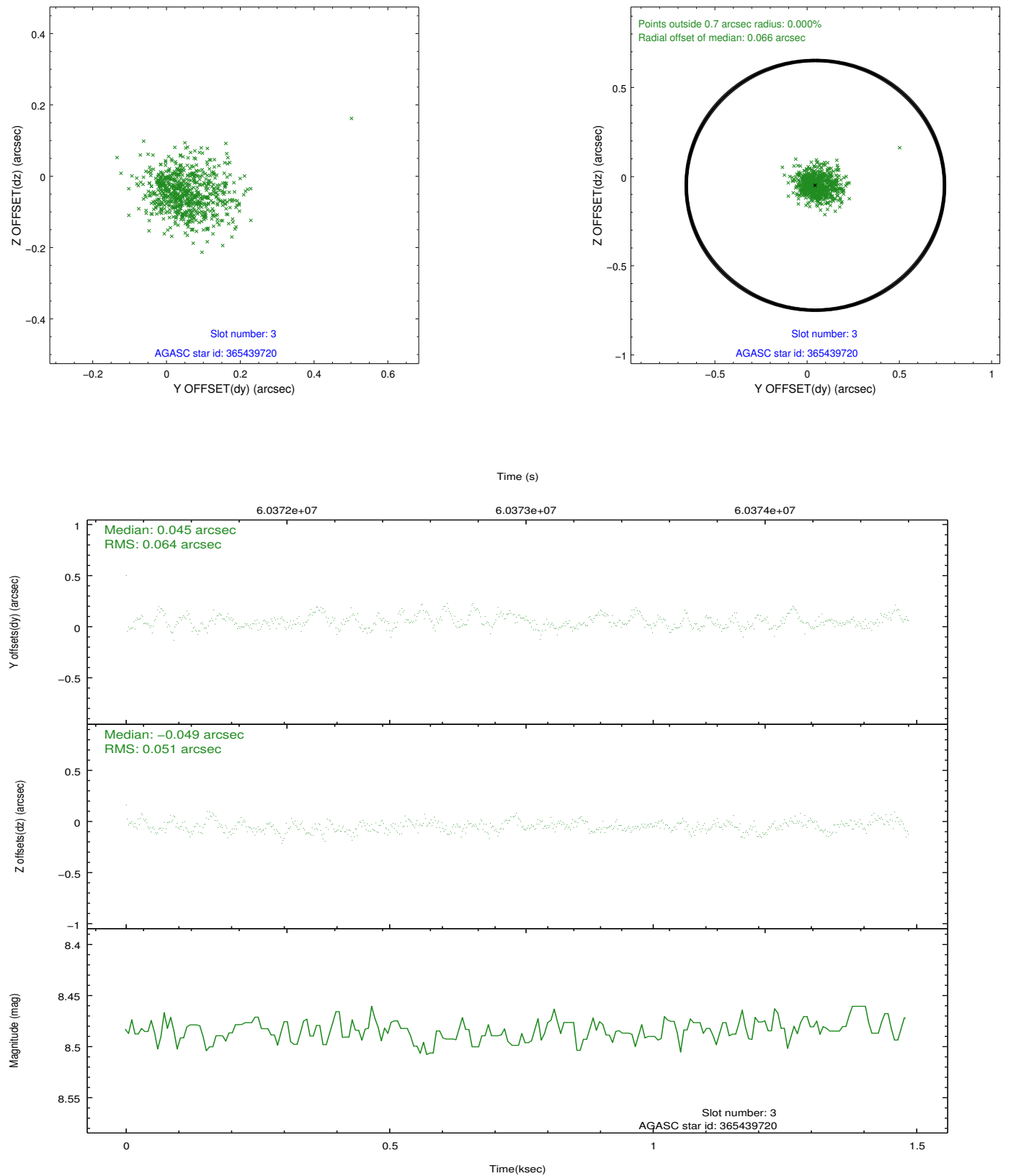


Slot Statistics

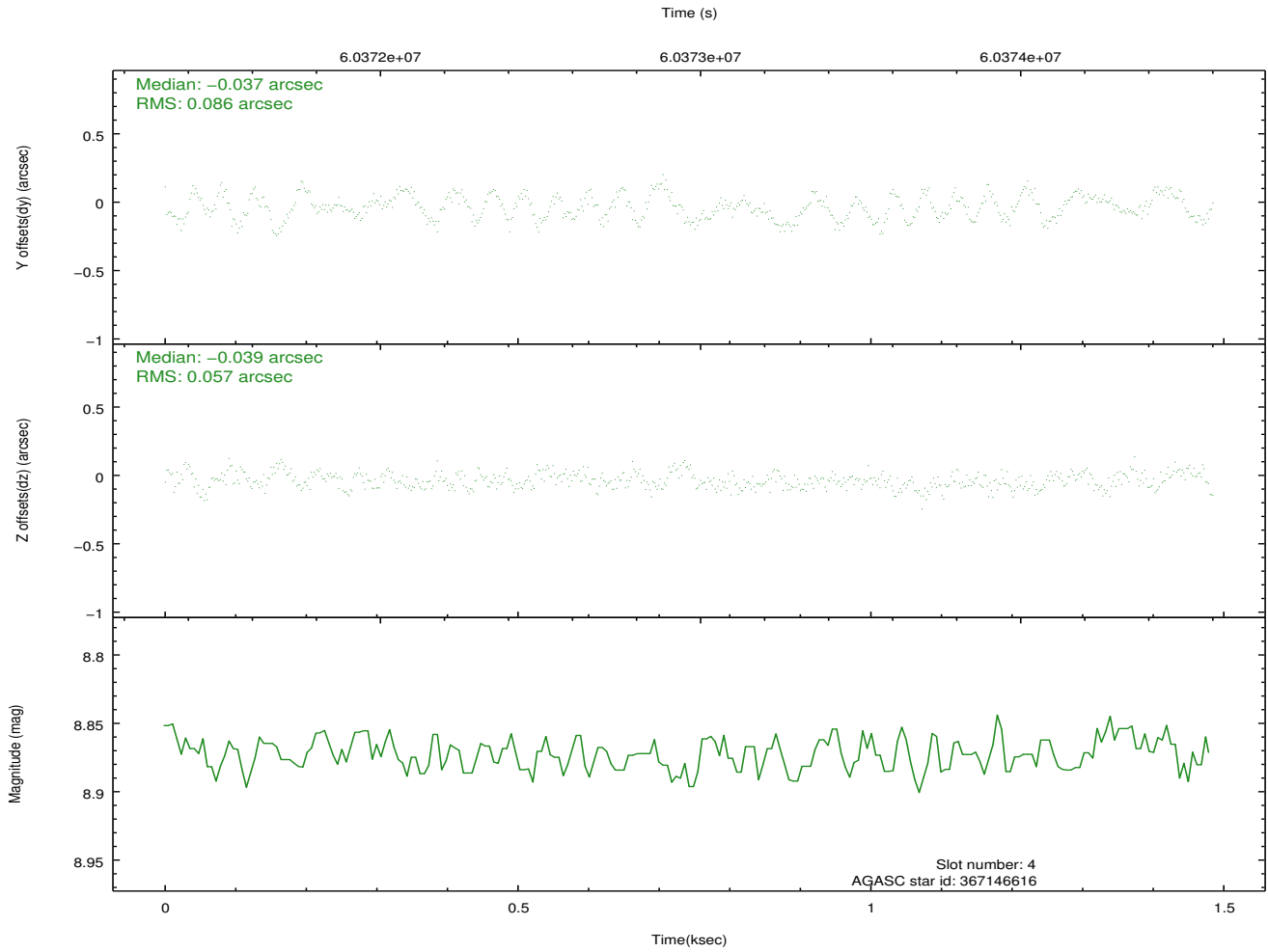
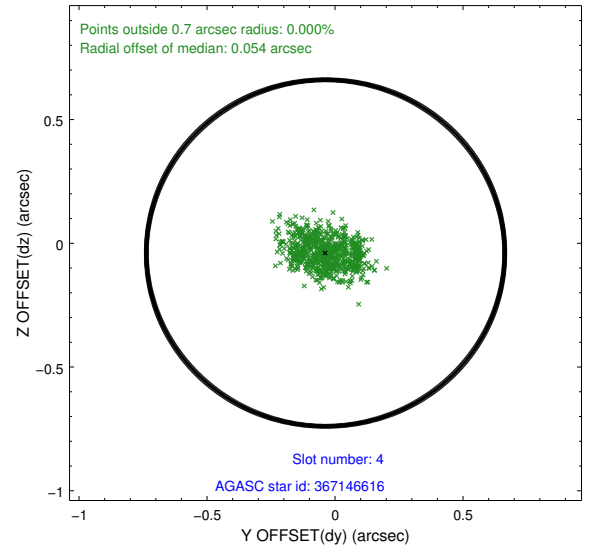
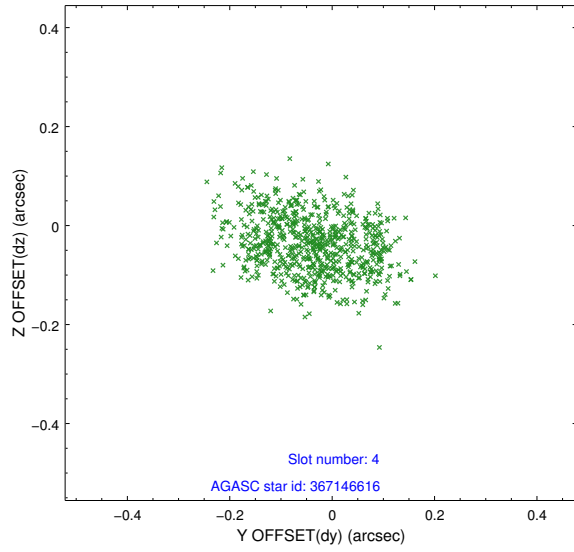
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | HRC-I-1 | 6.95 | 725 | 0.001 | -0.011 | 0.006 | 0.011 | 0.000000 | 0.000000 | -756.34 | -1288.06 |
| 1 | FID | HRC-I-3 | 7.03 | 725 | 0.053 | -0.078 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1185.86 | 1014.65 |
| 2 | FID | HRC-I-4 | 6.98 | 725 | 0.059 | 0.000 | 0.005 | 0.009 | 0.000000 | 0.000000 | 1284.83 | 1015.56 |
| 3 | GUIDE | 365439720 | 8.48 | 724 | 0.045 | -0.049 | 0.082 | 0.143 | 9.704623 | 40.431022 | 2001.26 | -2063.62 |
| 4 | GUIDE | 367146616 | 8.87 | 725 | -0.037 | -0.039 | 0.113 | 0.173 | 11.418645 | 41.190163 | -1105.02 | 2362.34 |
| 5 | GUIDE | 367657896 | 9.04 | 725 | -0.022 | 0.068 | 0.094 | 0.155 | 11.197765 | 41.313576 | -1497.30 | 1732.76 |
| 6 | GUIDE | 367658664 | 9.59 | 725 | -0.092 | 0.086 | 0.092 | 0.156 | 10.374070 | 41.369746 | -1509.94 | -503.58 |
| 7 | GUIDE | 365442120 | 9.83 | 723 | 0.099 | -0.075 | 0.121 | 0.184 | 9.743696 | 40.631177 | 1272.79 | -2010.31 |

2.4 Star Slots

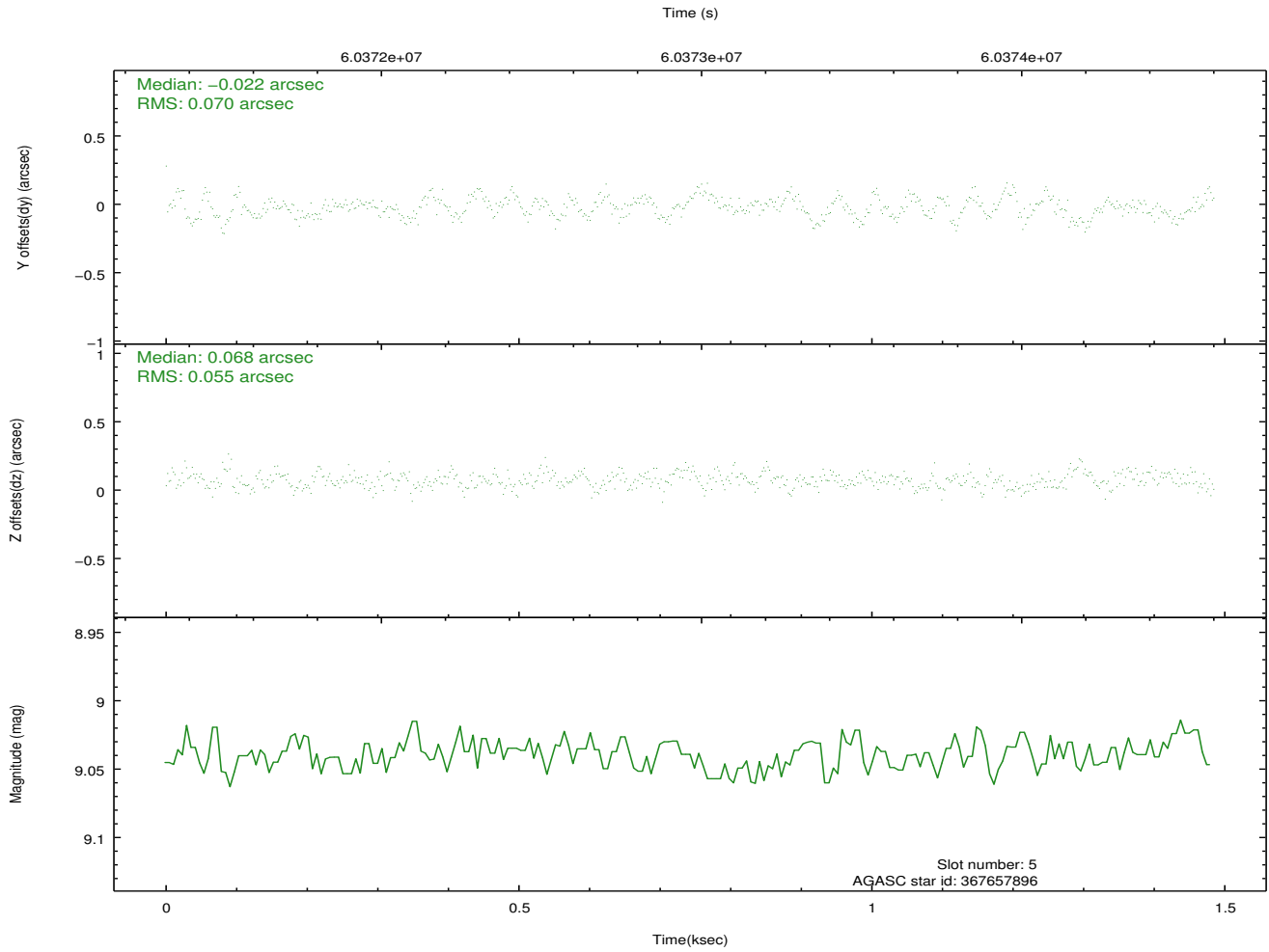
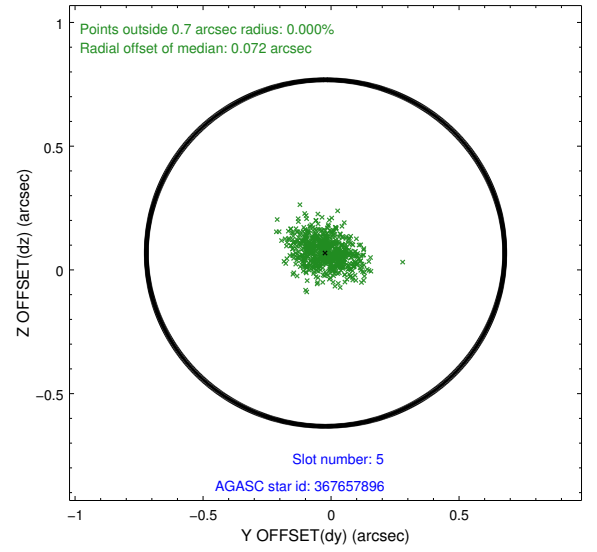
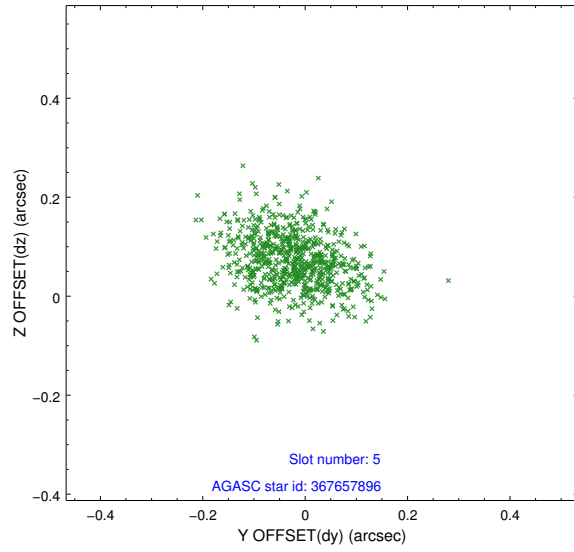
2.4.1 Slot 3



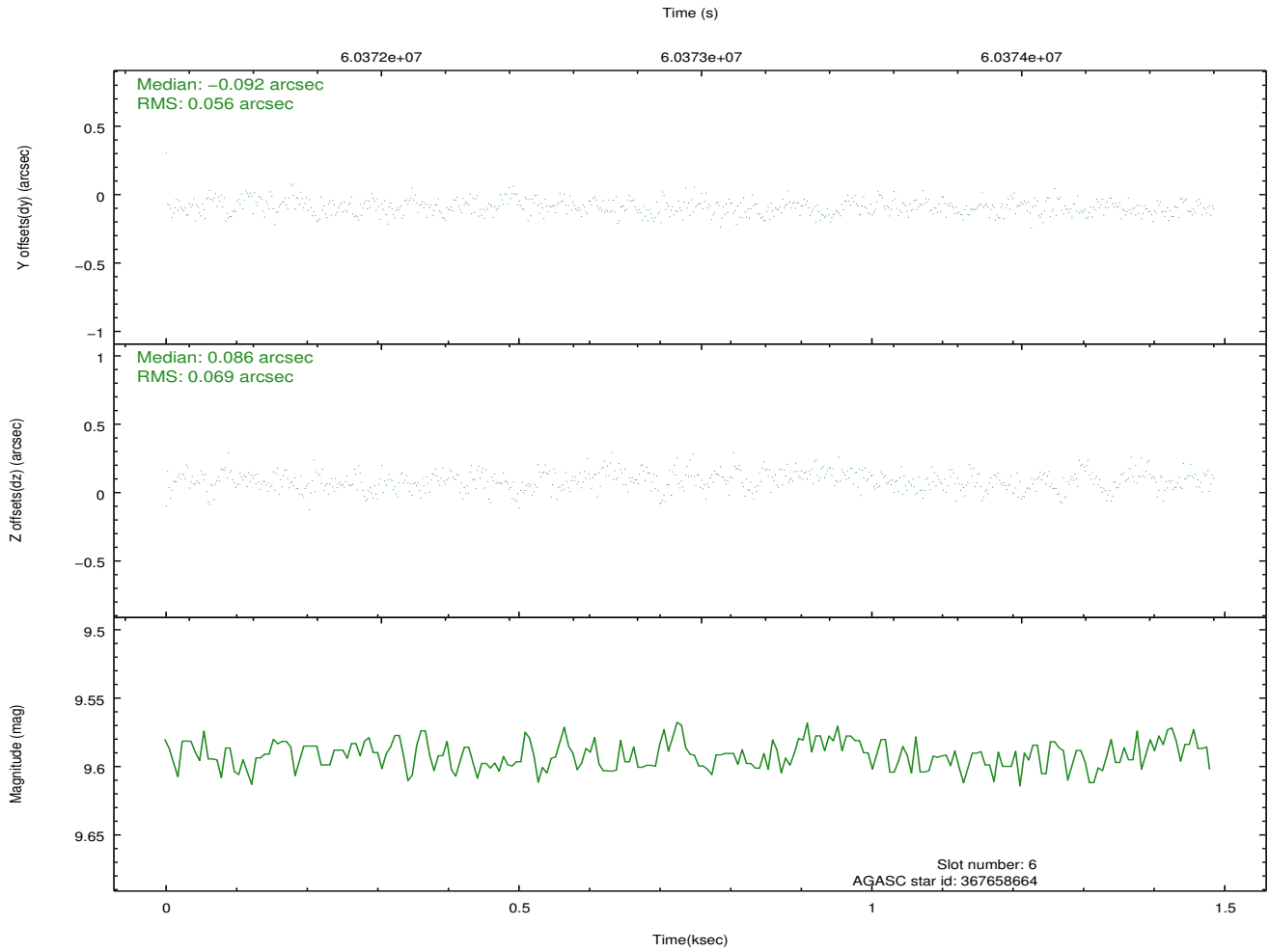
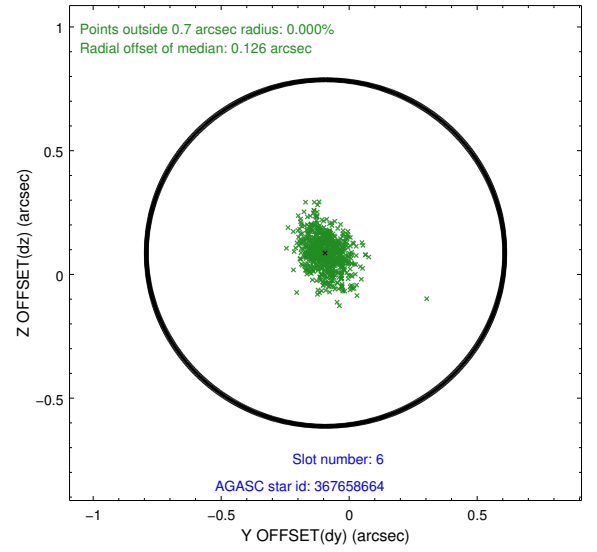
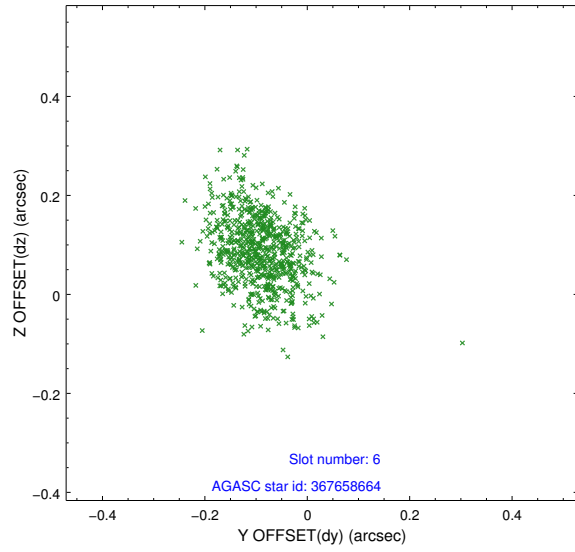
2.4.2 Slot 4



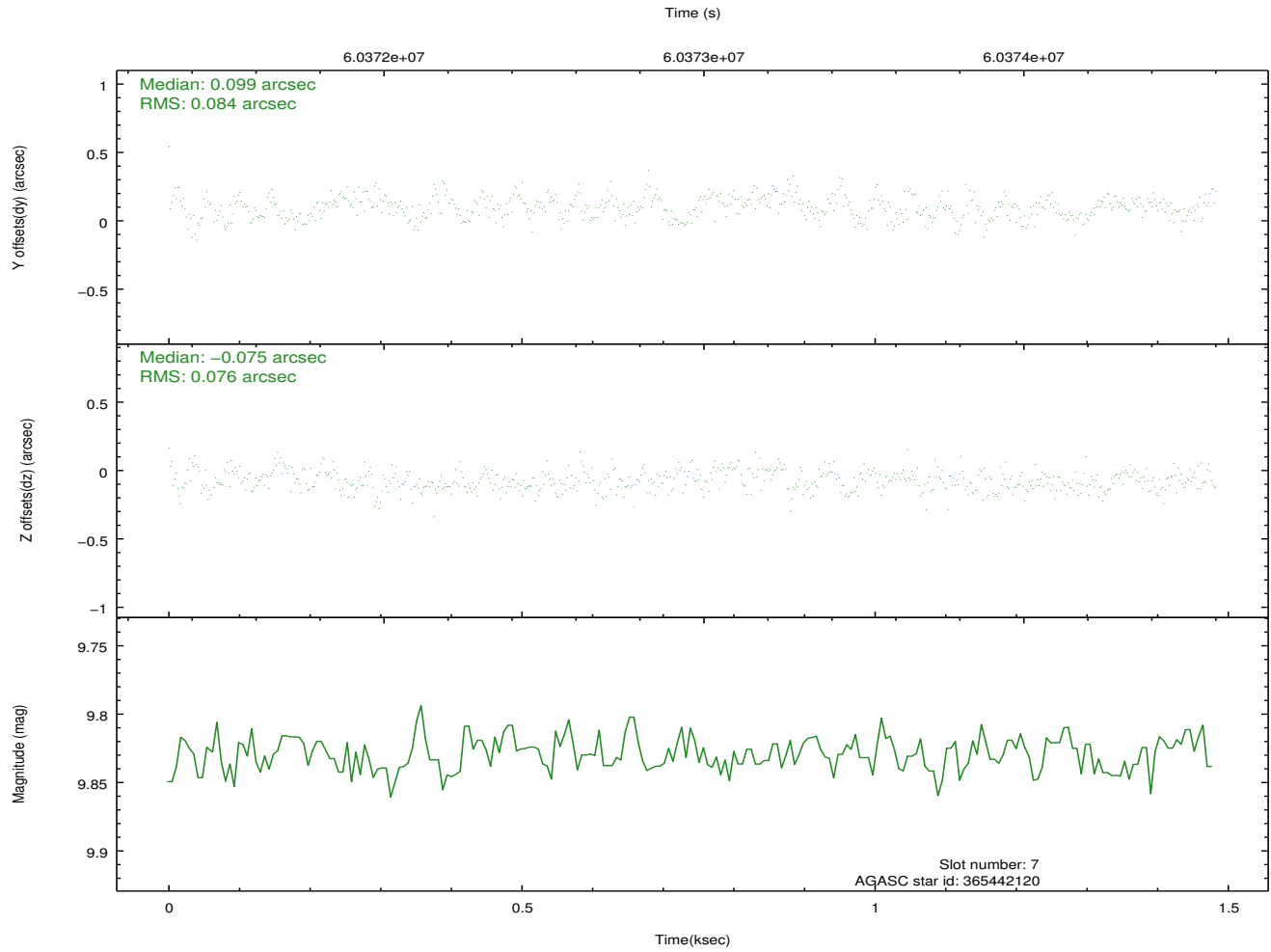
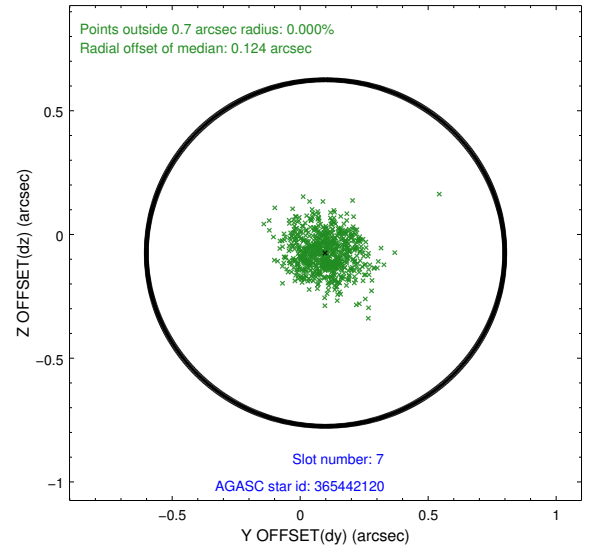
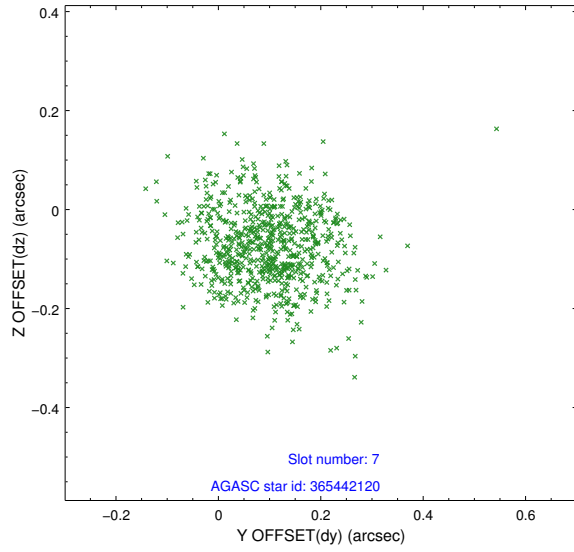
2.4.3 Slot 5



2.4.4 Slot 6

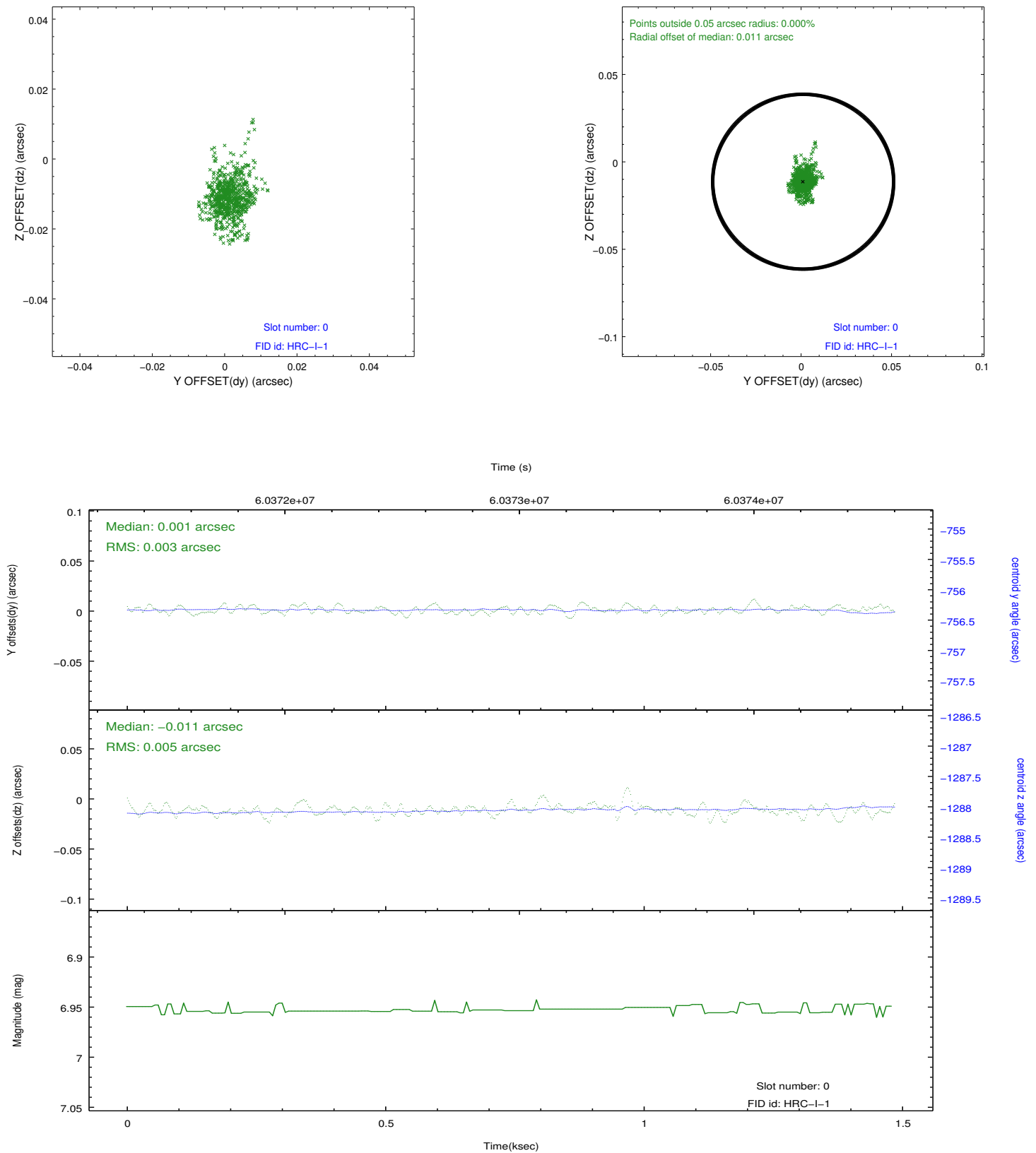


2.4.5 Slot 7

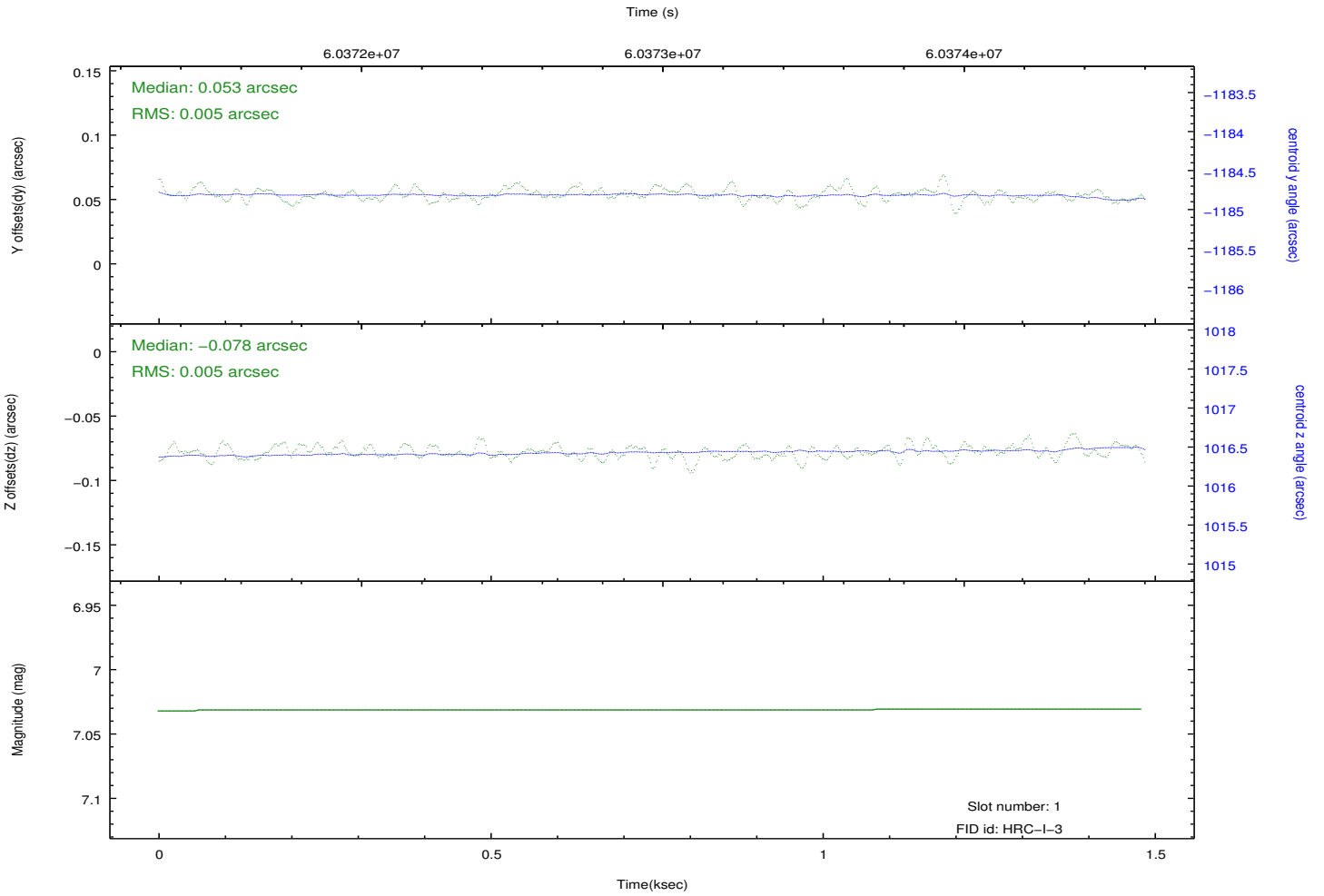
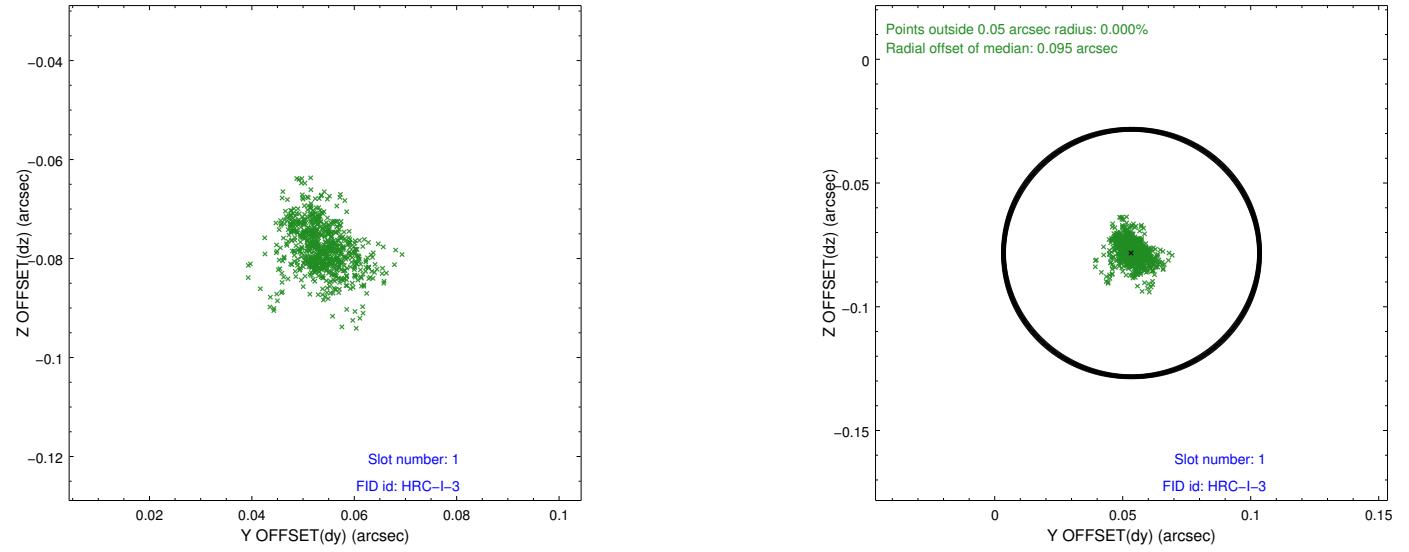


2.5 FID Slots

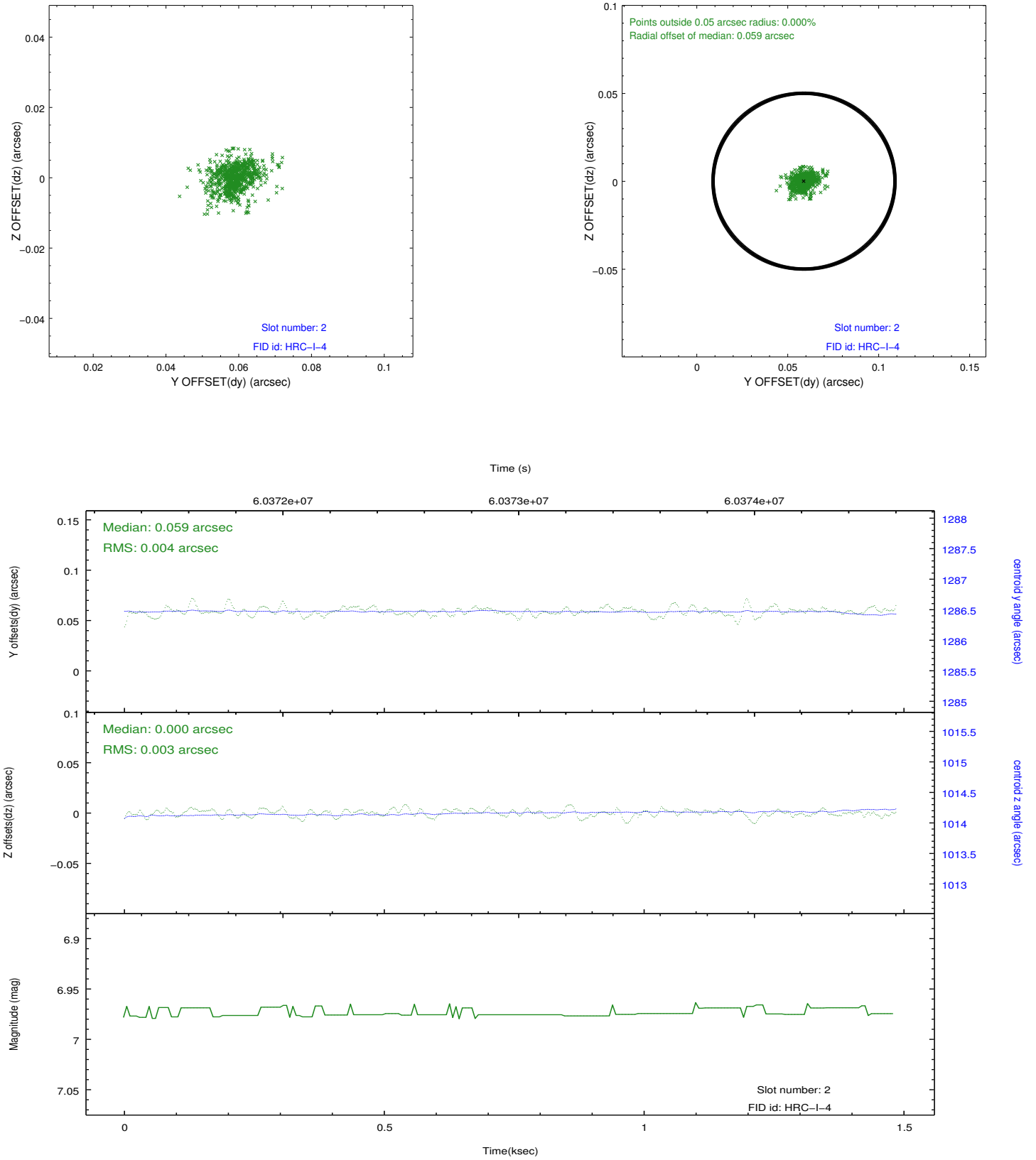
2.5.1 Slot 0



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) | 2013.01.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.275 |

A.2 Comments