

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 1128 - L2 Version 4

Chandra X-Ray Center

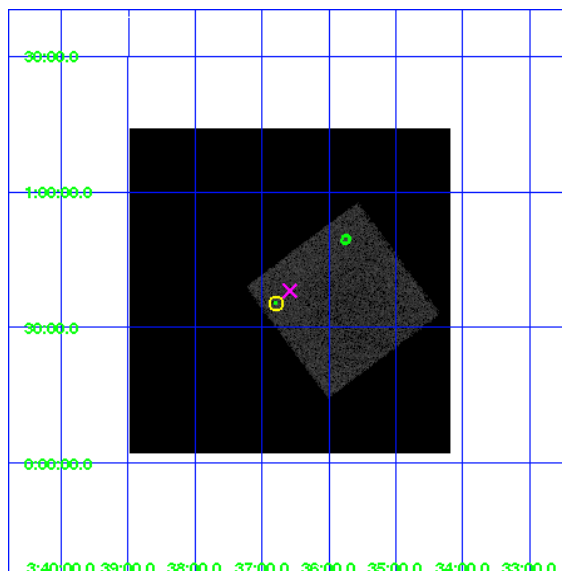
L2 Processing Date : Jan 12 2010

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	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
2.5	FID Slots . . . . .	13
2.5.1	Slot 0 . . . . .	13
2.5.2	Slot 1 . . . . .	14
2.5.3	Slot 2 . . . . .	15
<b>3</b>	<b>Point Sources</b>	<b>16</b>
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

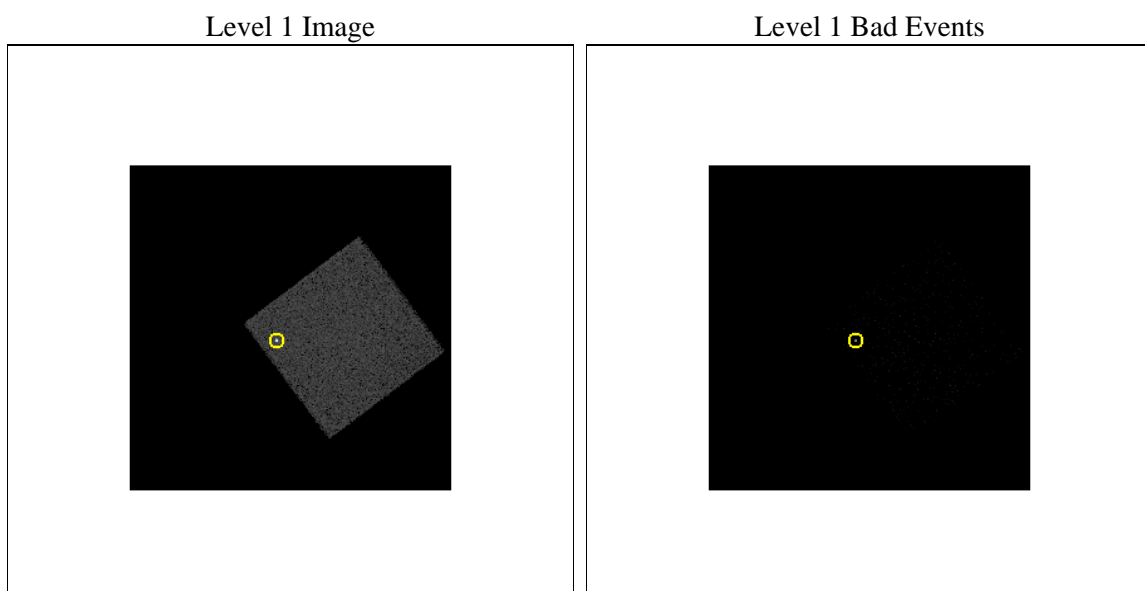
seq_num	280078	Sequence number
obs_id	1128	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA
dec_targ	0.589972	Observer's specified target Dec
ra_nom	54.145386229771	Nominal RA
dec_nom	0.63509304638491	Nominal Dec
roll_nom	98.193762467647	Nominal Roll
revision	4	Processing version of data
ontime	795.65627857298	[s]
livetime	788.59016874052	Ontime multiplied by DTCOR
l2events	37112	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	Scheduled observation exposure time
ascdsver	8.2.1	Processing system revision	ontime	795.65627857298	[s]
caldbver	4.1.5	&#160	l1events	62835	Number of level 1 events
date	2010-01-12T22:26:38	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

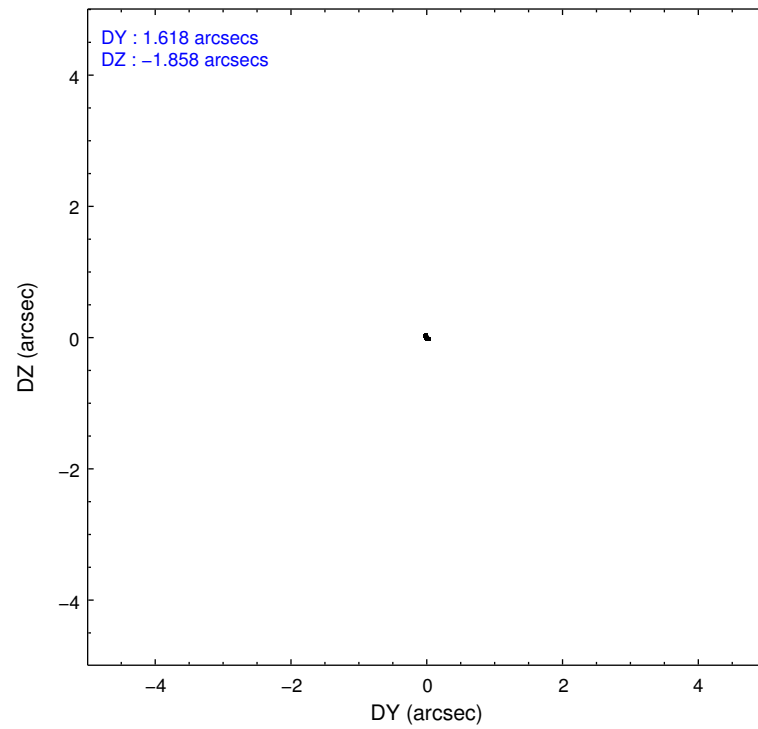
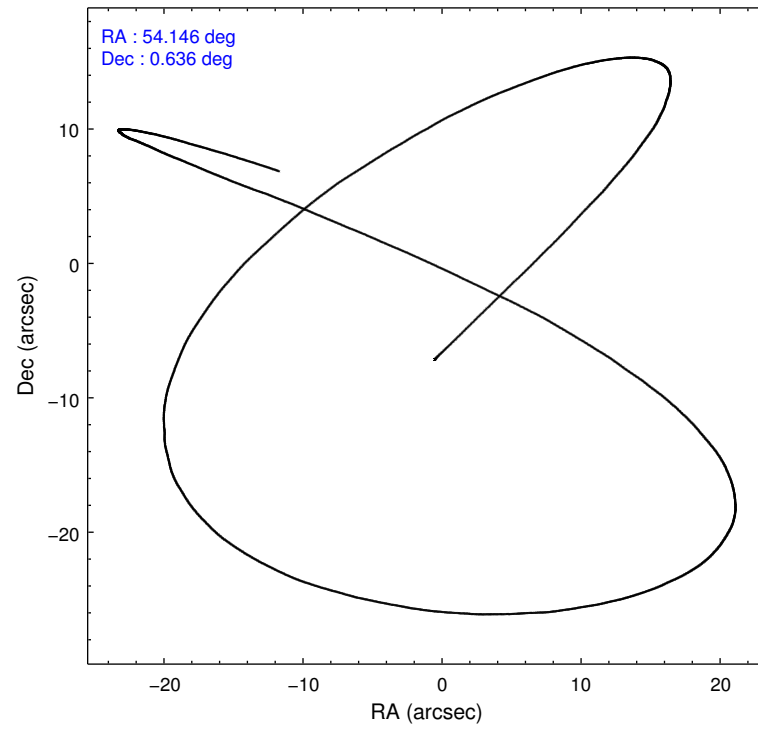
	<b>segment 0</b>
level 1 events	62835
rejected events	4026
rejected %	6%

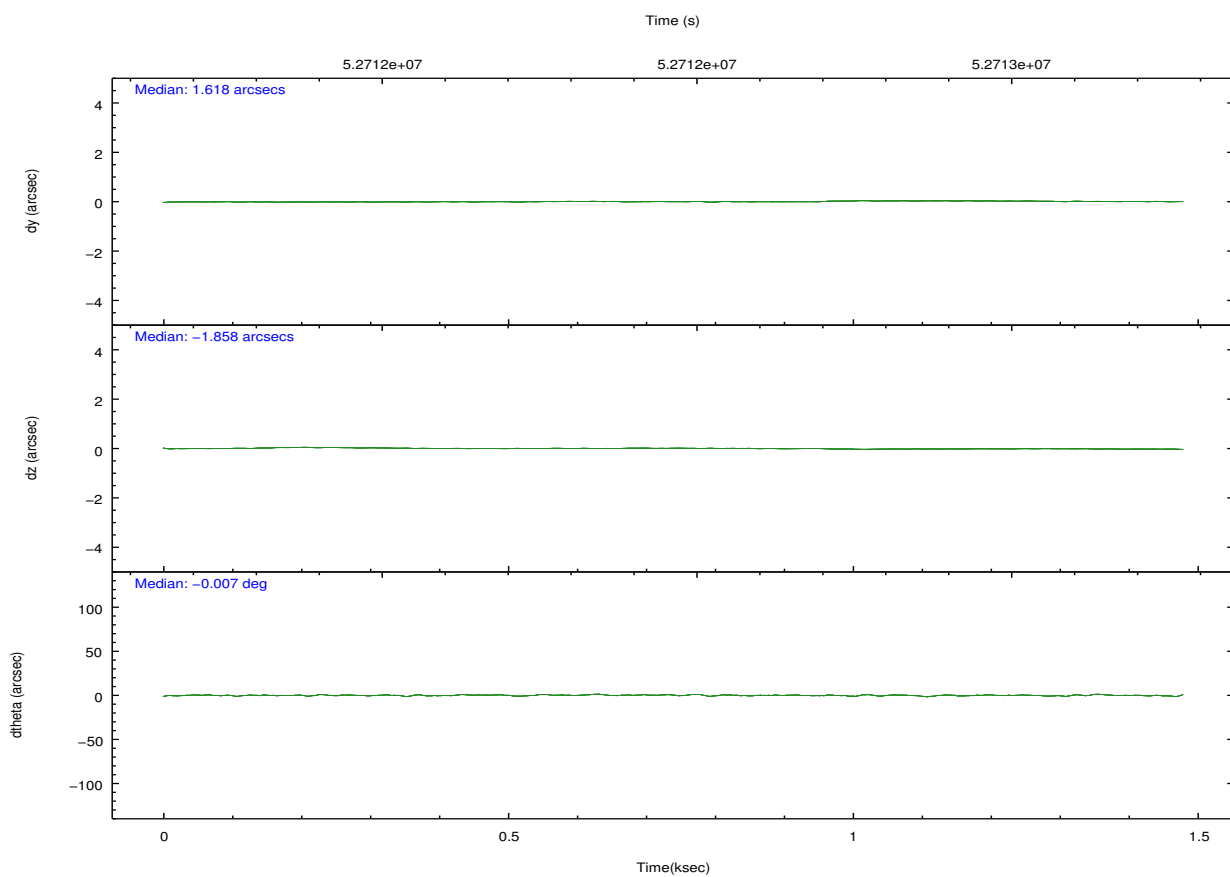
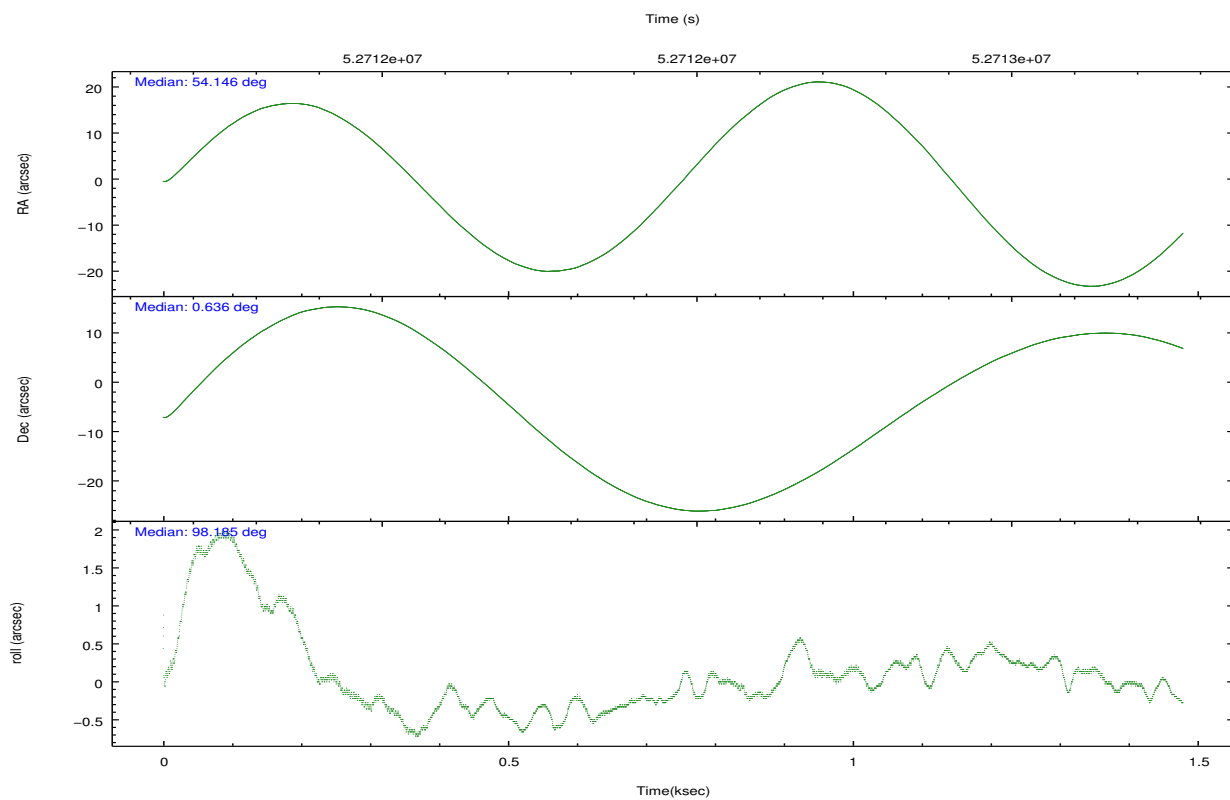
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	54.162465	54.14538622977076
Pointing Dec	0.612551	0.6350930463849054
Pointing Roll	98.289050	98.19376246764651
SIM focus pos (mm)	-1.040293	-1.300001029371461
SIM defocus (mm)	0	-0.259708408712586
SIM translation stage pos (mm)	91.869942	91.86553817309772
SIM translation stage offset (mm)	35.115552	35.11995071850384
Observation start time	52712202.184000	52711535.843805
Observation start date	1999-09-03T02:15:38	1999-09-03T02:05:35
Observation end time	52713202.184000	52713335.74387
Observation end date	1999-09-03T02:32:18	1999-09-03T02:35:35

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





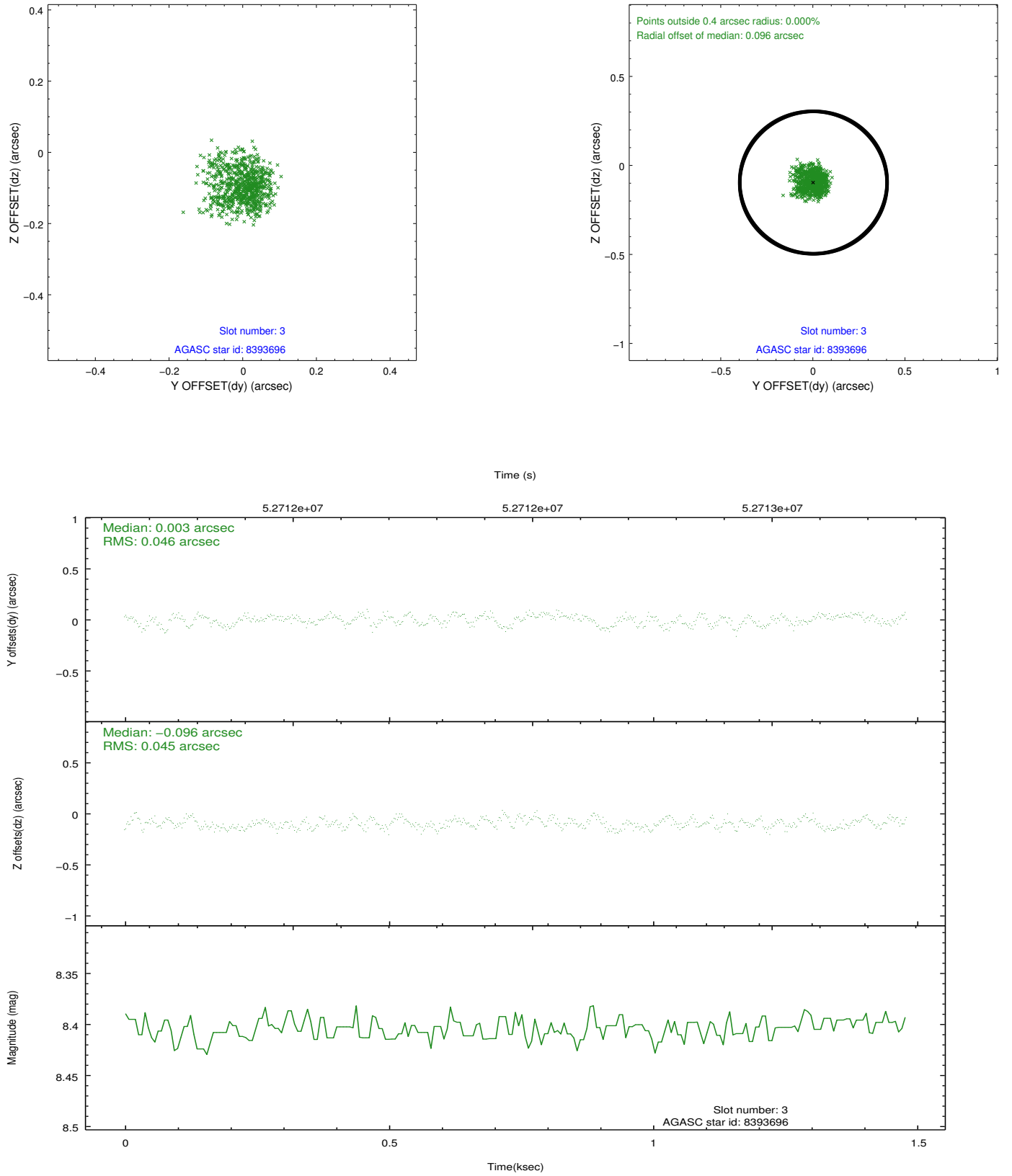
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	723	-0.267	-0.174	0.007	0.013	0.000000	0.000000	-755.76	-567.92
1	FID	HRC-I-3	7.01	723	0.249	-0.194	0.007	0.012	0.000000	0.000000	-1187.42	1739.48
2	FID	HRC-I-4	6.88	723	0.133	0.276	0.005	0.008	0.000000	0.000000	1283.09	1741.40
3	GUIDE	8393696	8.40	723	0.003	-0.096	0.072	0.110	53.645666	0.680479	506.08	1805.46
4	GUIDE	8390744	9.02	723	-0.073	-0.037	0.068	0.108	53.677290	0.926294	1366.01	1567.85
5	GUIDE	8395104	8.66	723	0.065	0.271	0.079	0.128	54.744893	0.796520	351.63	-2167.81
6	GUIDE	8392416	9.67	722	0.008	-0.134	0.115	0.178	53.428256	0.991948	1729.05	2415.26
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

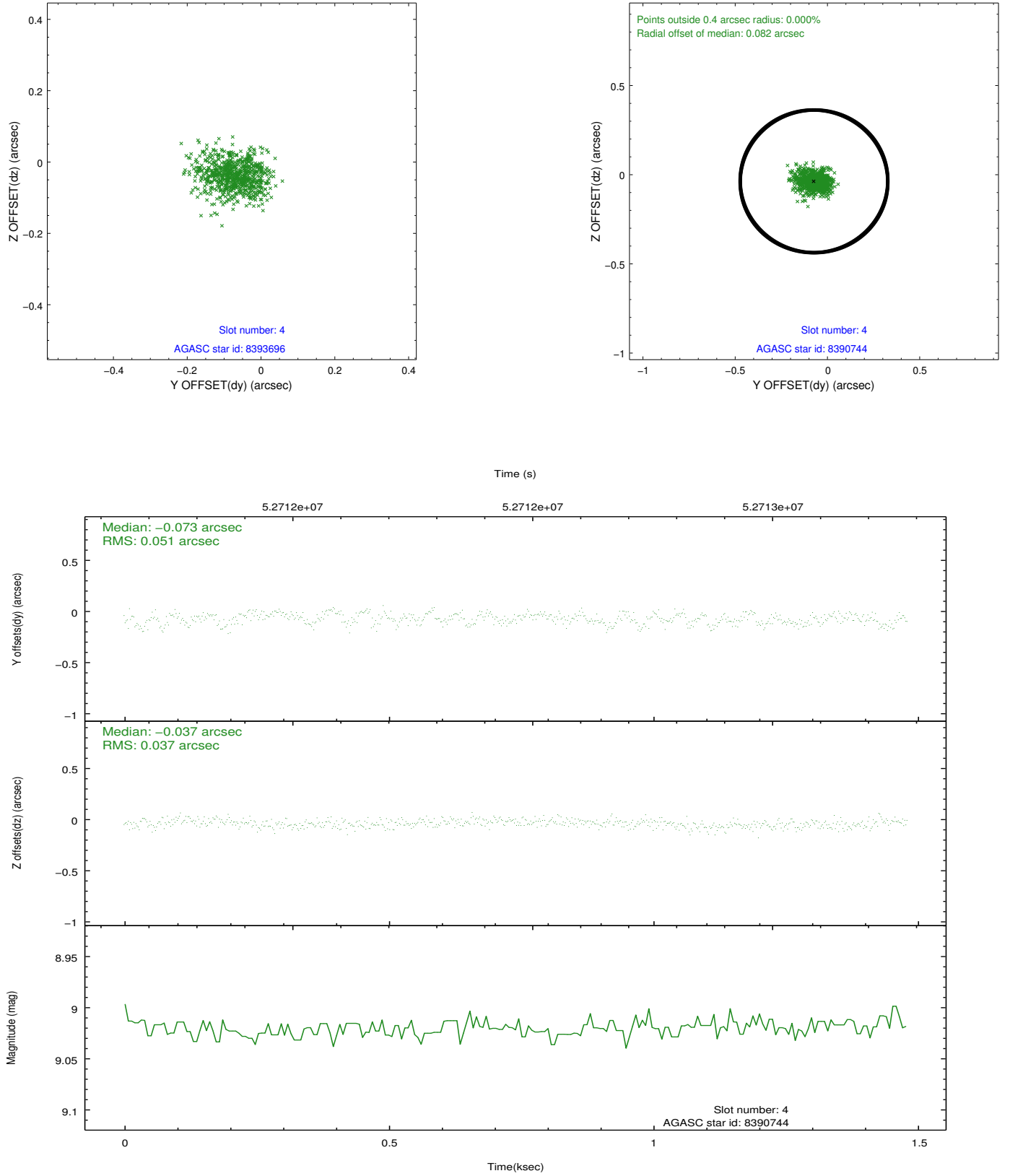


## 2.4 Star Slots

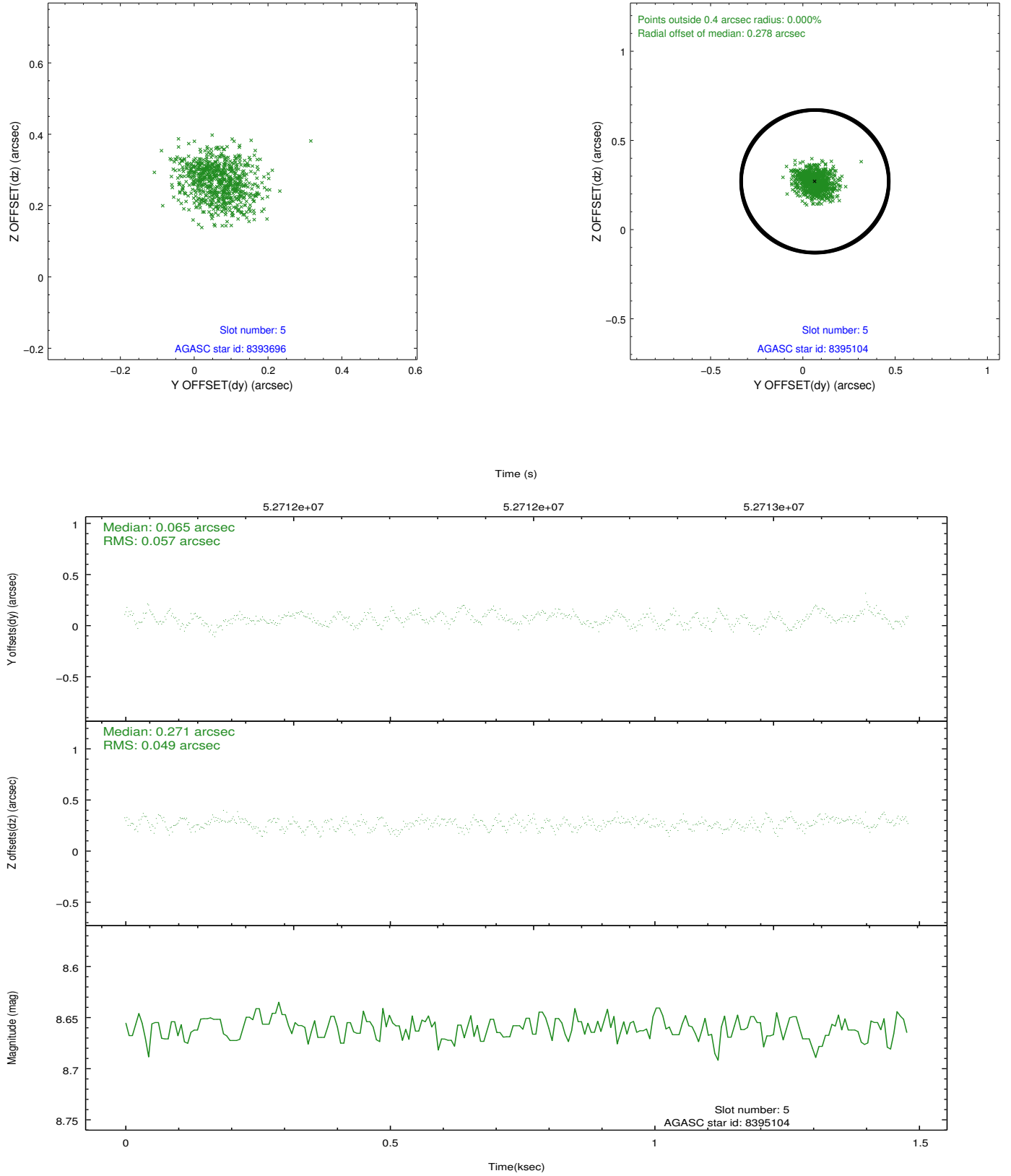
### 2.4.1 Slot 3



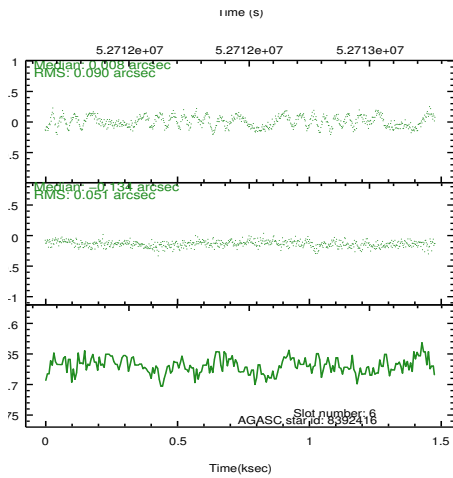
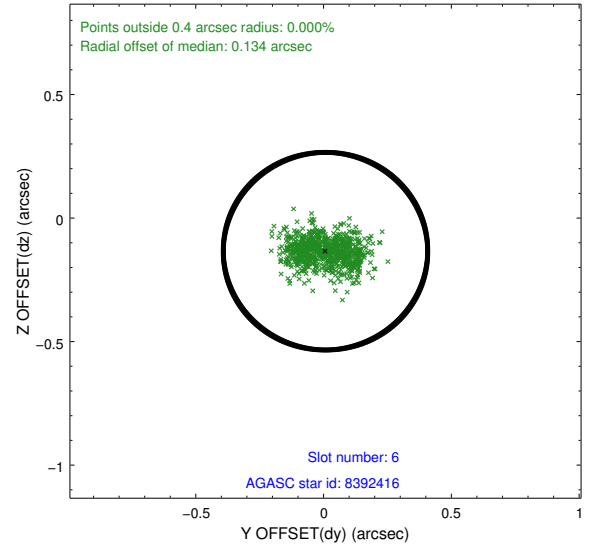
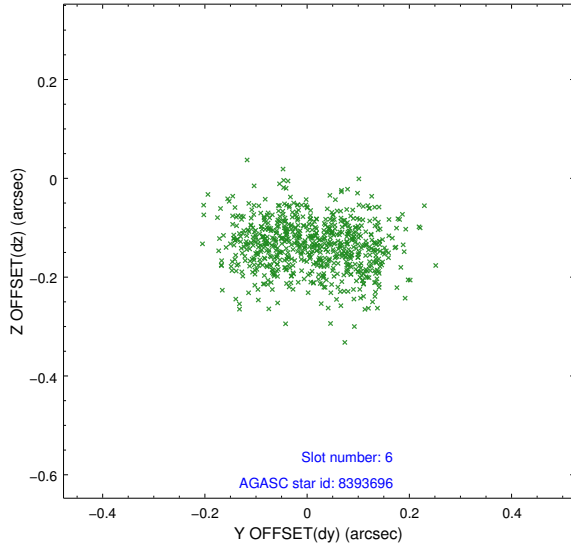
## 2.4.2 Slot 4



### 2.4.3 Slot 5

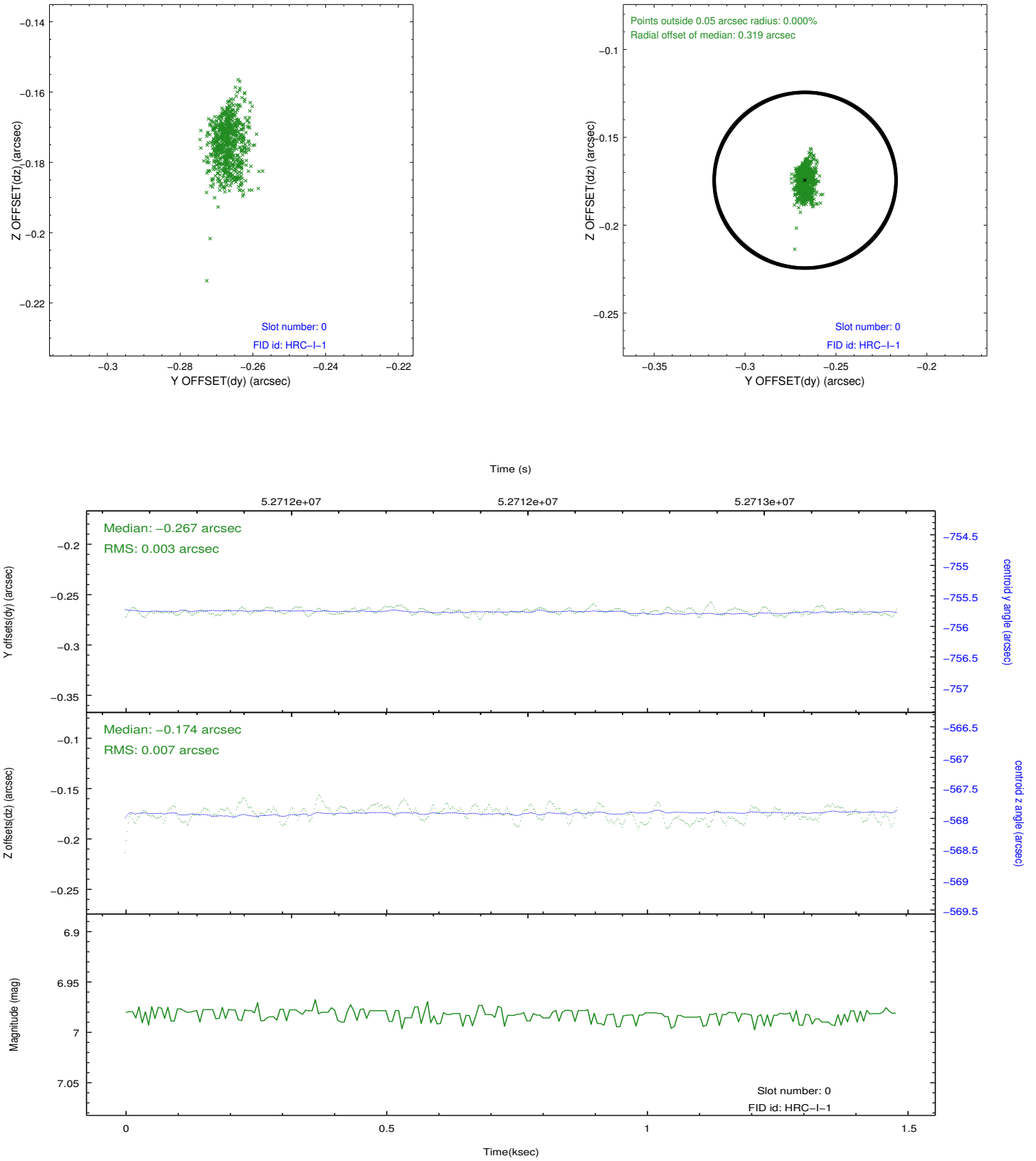


## 2.4.4 Slot 6

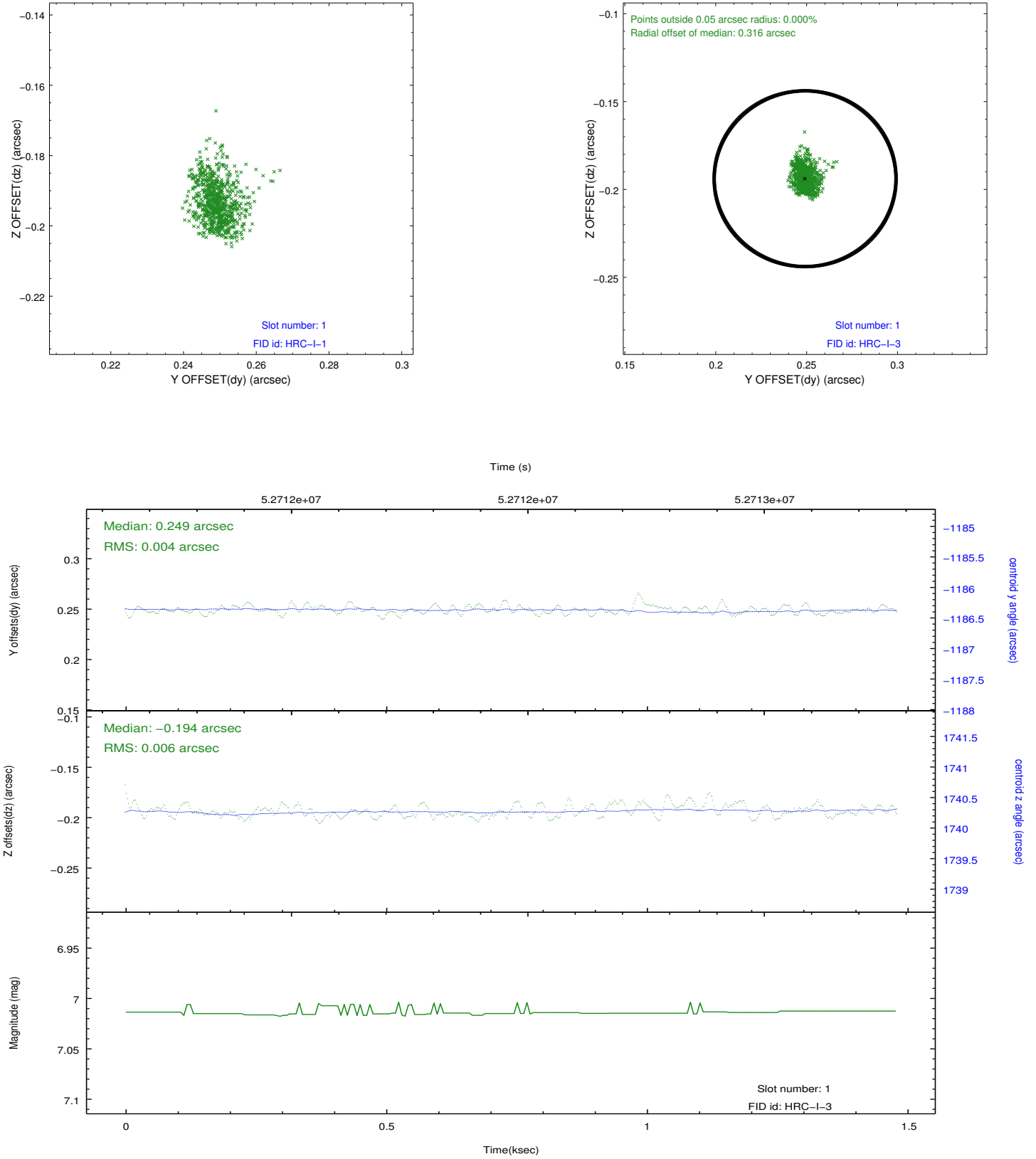


## 2.5 FID Slots

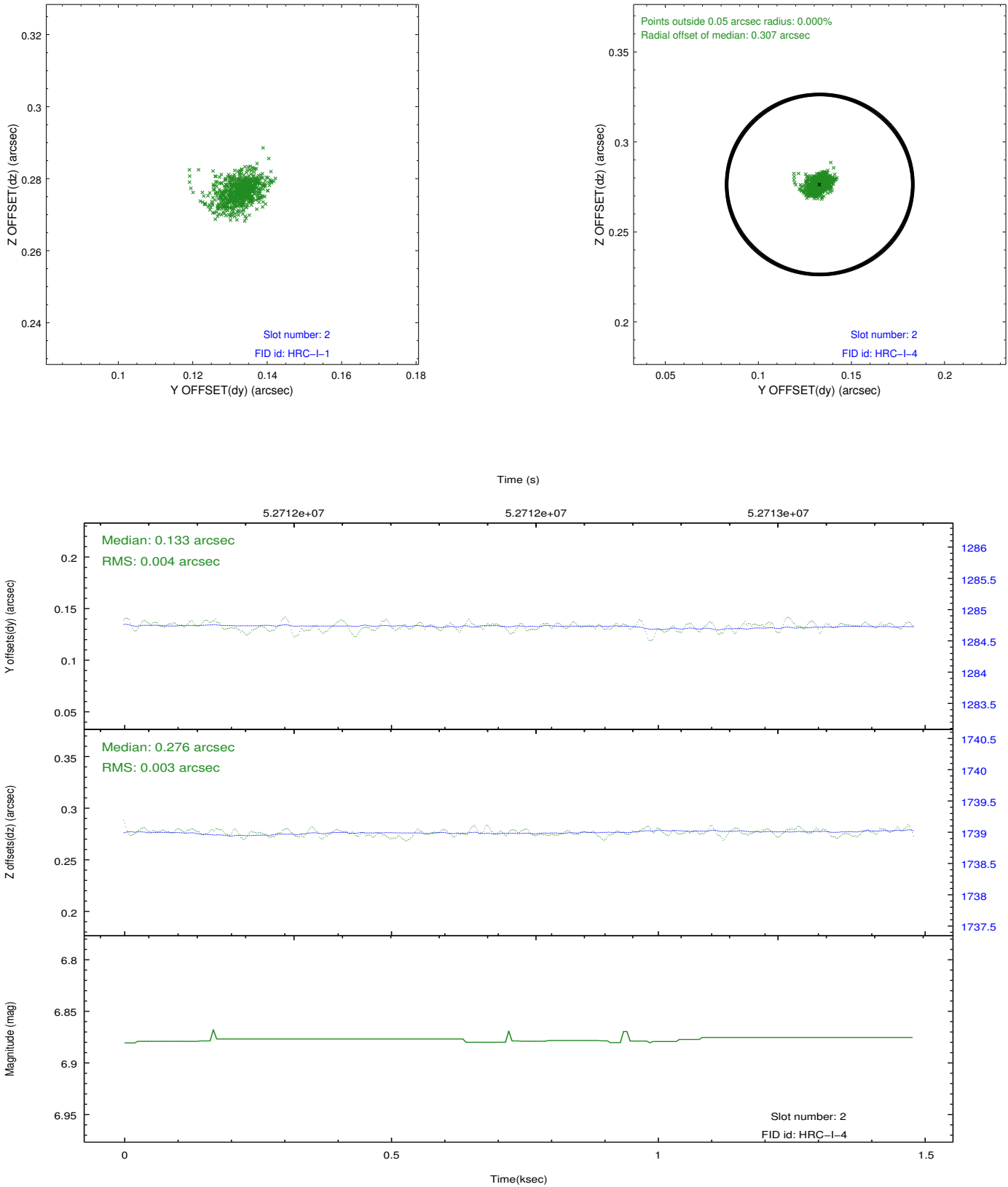
### 2.5.1 Slot 0



## 2.5.2 Slot 1

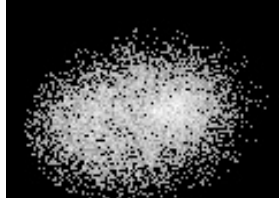


2.5.3 Slot 2



### 3 Point Sources

4.16 arcmin





# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.795

## A.2 Comments

HRC-I Optical Axis determination. SIMBAD coordinates for this object are ra = 03:36:47.2895, dec = +00:35:15.928. Observer requested coordinates ra = 03:36:47, dec = +00:35:23.90.30. Target was intended to be off-axis for calibration purposes, but it is not at the intended position on the chip due to the observer's error in the coordinates.===One guide star was not acquired for this observation, possibly due to the coordinate issue. The guide star in slot 7 was not acquired or tracked. The aspect solution is not expected to be degraded by removing one guide star from the solution.