

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 1148 - L2 Version 4

Chandra X-Ray Center

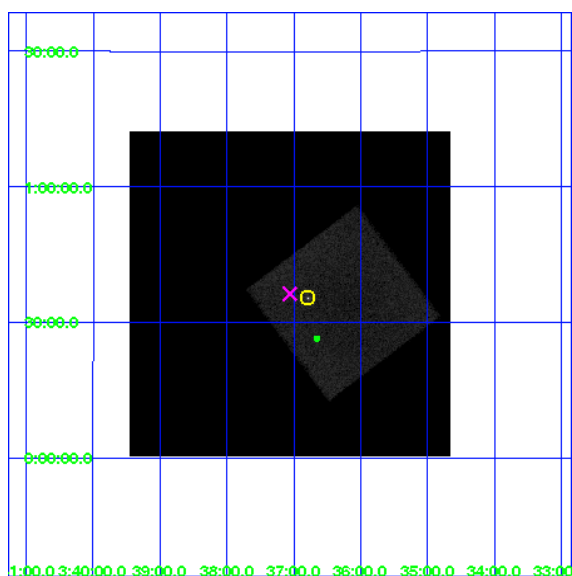
L2 Processing Date : Jan 20 2010

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# 1 Front

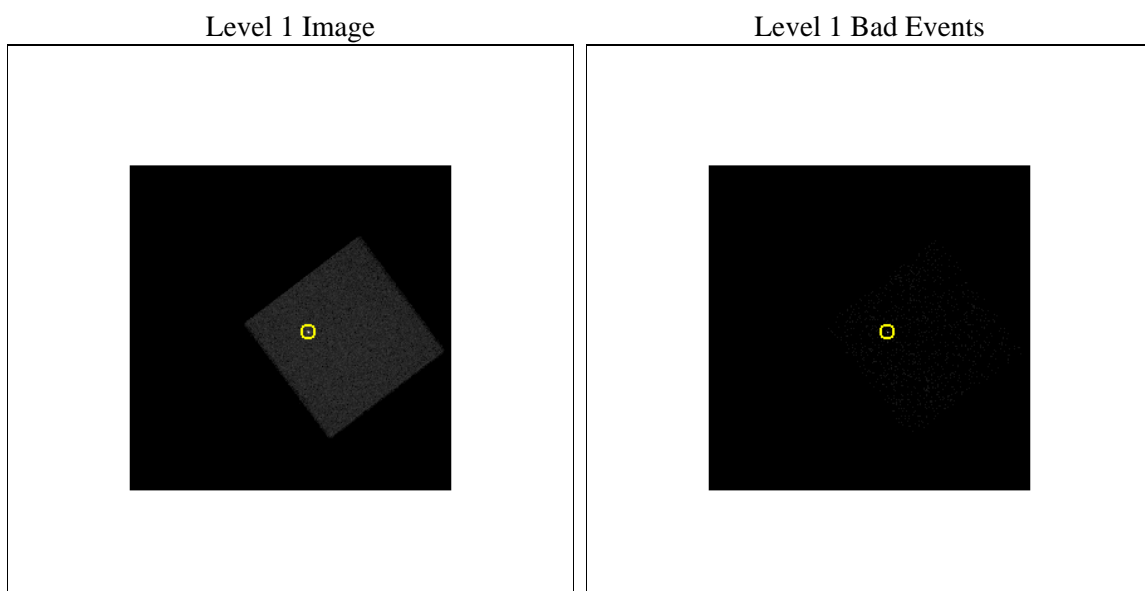
seq_num	280098	Sequence number
obs_id	1148	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA
dec_targ	0.589972	Observer's specified target Dec
ra_nom	54.264313607827	Nominal RA
dec_nom	0.60506651282599	Nominal Dec
roll_nom	98.047904570406	Nominal Roll
revision	4	Processing version of data
ontime	795.65627857298	[s]
livetime	777.64757508515	Ontime multiplied by DTCOR
l2events	76965	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	123428	Number of level 1 events
date	2010-01-20T20:05:23	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

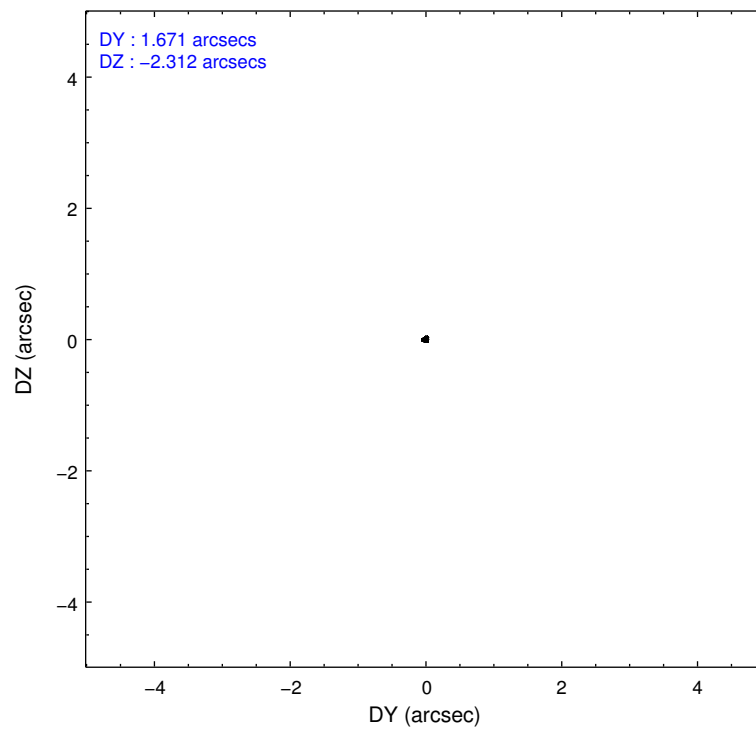
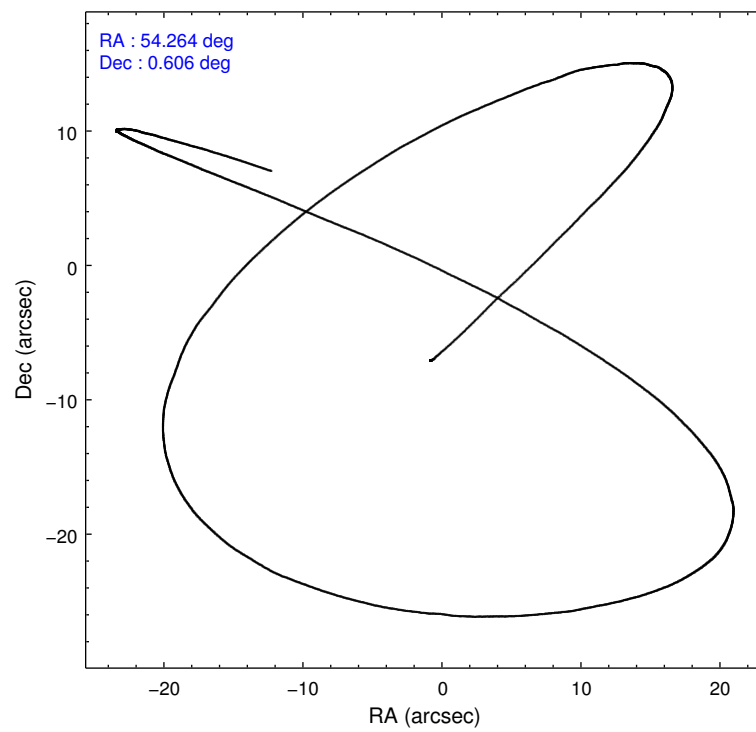
	<b>segment 0</b>
level 1 events	123428
rejected events	7129
rejected %	5%

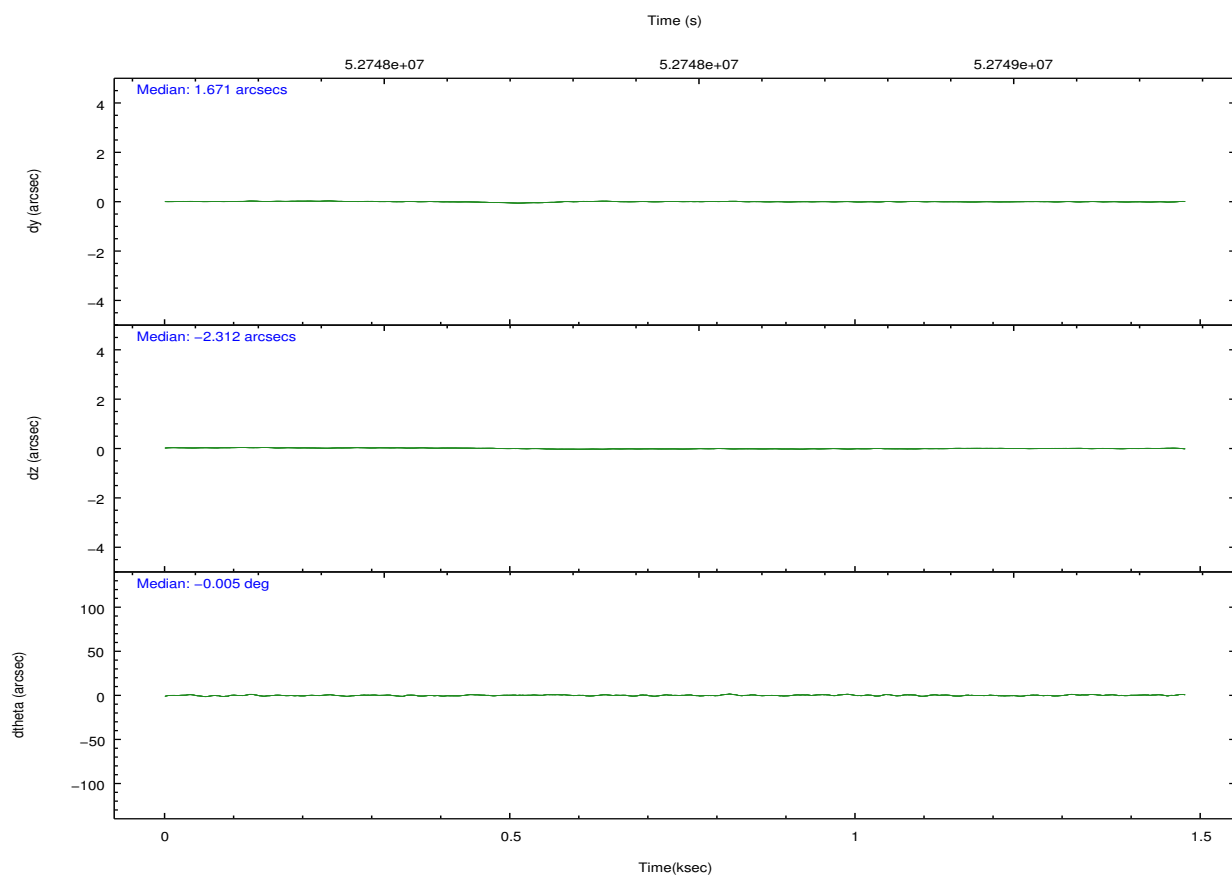
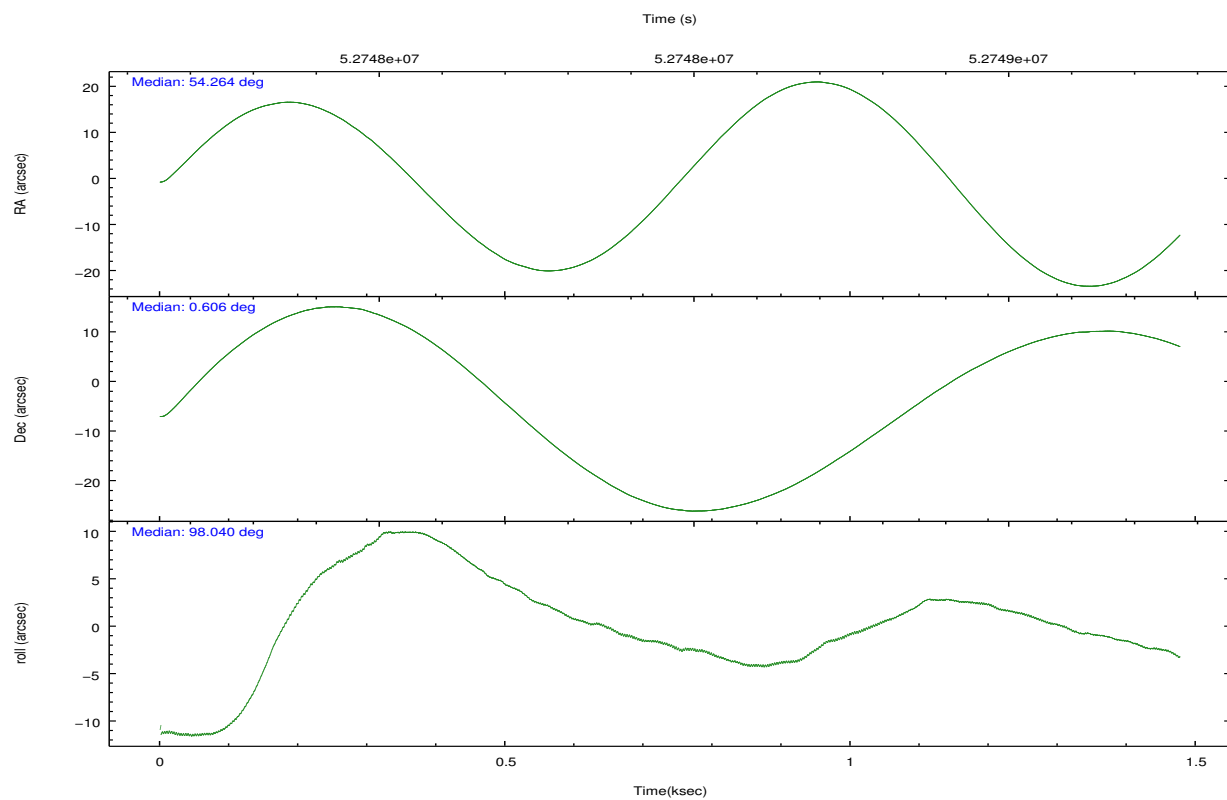
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	54.281329	54.26431360782677
Pointing Dec	0.582496	0.6050665128259926
Pointing Roll	98.143195	98.04790457040562
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	52748202.184000	52747535.895098
Observation start date	1999-09-03T12:15:38	1999-09-03T12:05:35
Observation end time	52749202.184000	52749335.795162
Observation end date	1999-09-03T12:32:18	1999-09-03T12:35:35

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

## 2.3 Aspect





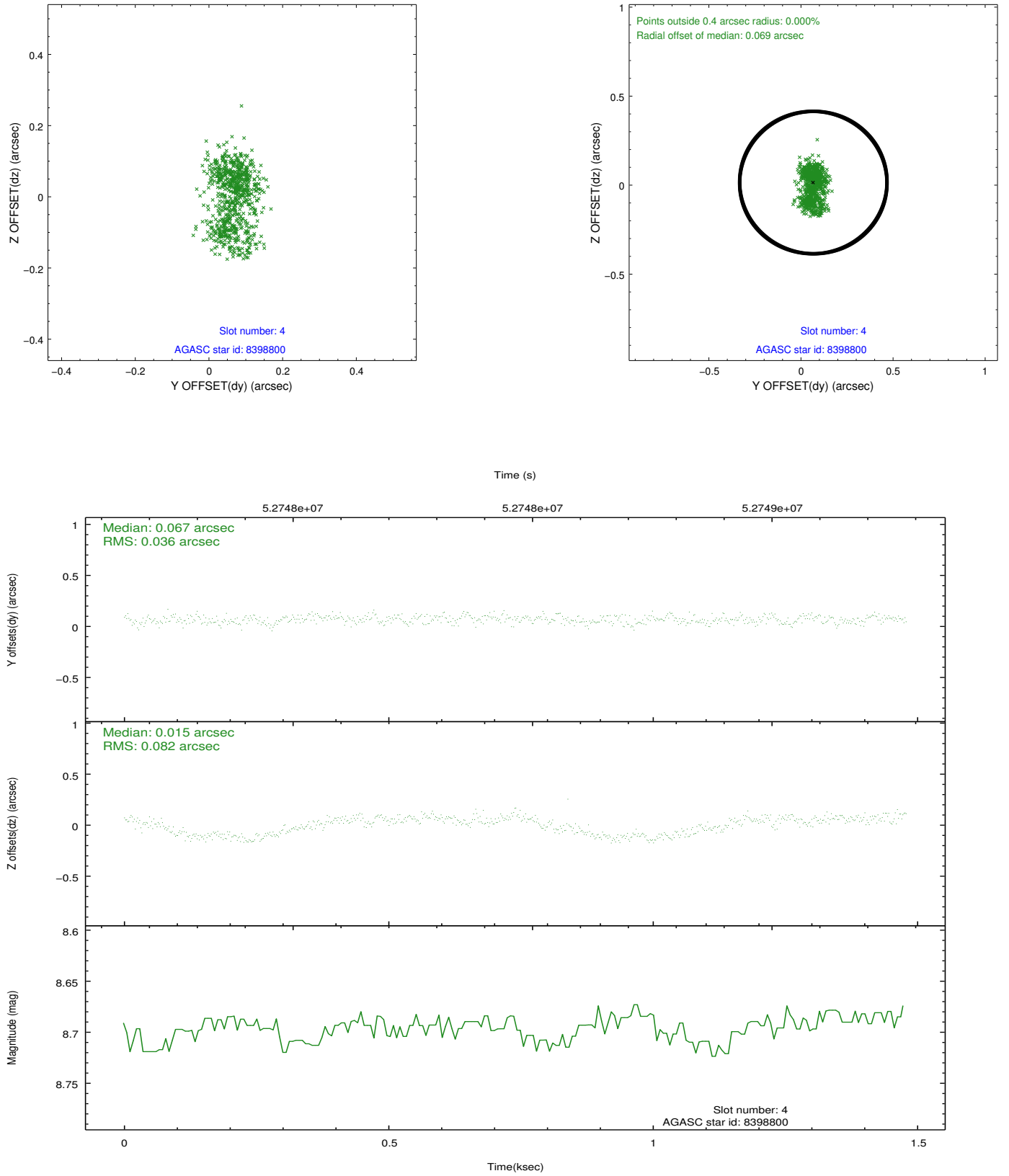
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	722	-0.262	-0.127	0.007	0.012	0.000000	0.000000	-755.82	-567.39
1	FID	HRC-I-3	7.01	722	0.249	-0.229	0.008	0.012	0.000000	0.000000	-1187.44	1739.94
2	FID	HRC-I-4	6.87	722	0.129	0.264	0.005	0.008	0.000000	0.000000	1283.06	1741.83
3	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	8398800	8.70	722	0.067	0.015	0.094	0.160	54.242352	0.922024	1225.82	-34.59
5	GUIDE	8390744	9.02	722	-0.055	-0.206	0.088	0.140	53.677290	0.926294	1530.61	1976.51
6	GUIDE	8395104	8.66	722	0.000	0.133	0.067	0.109	54.744893	0.796520	524.72	-1758.55
7	GUIDE	8397624	9.55	720	-0.012	0.074	0.124	0.196	54.812881	1.297049	2272.59	-2260.87

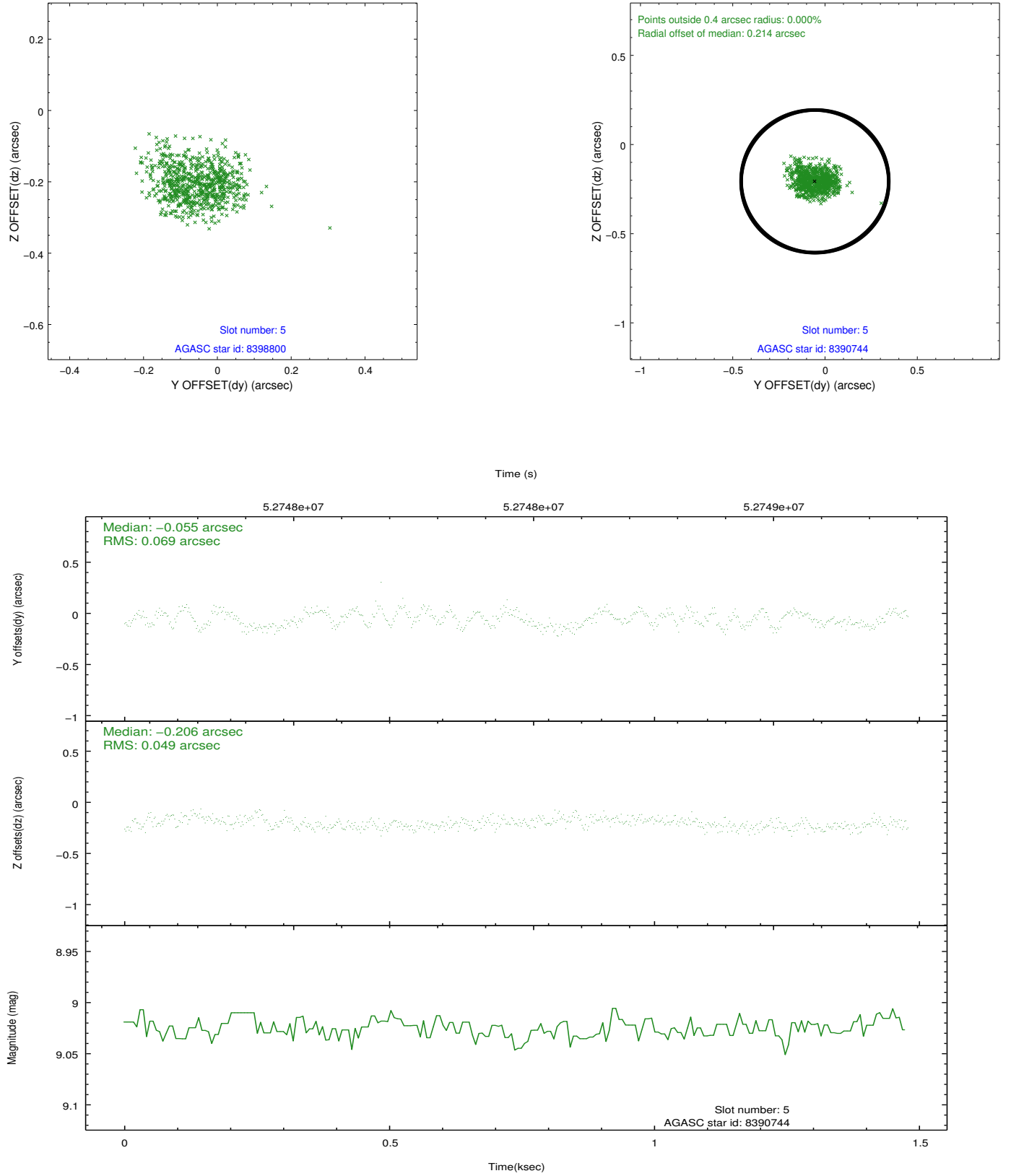


## 2.4 Star Slots

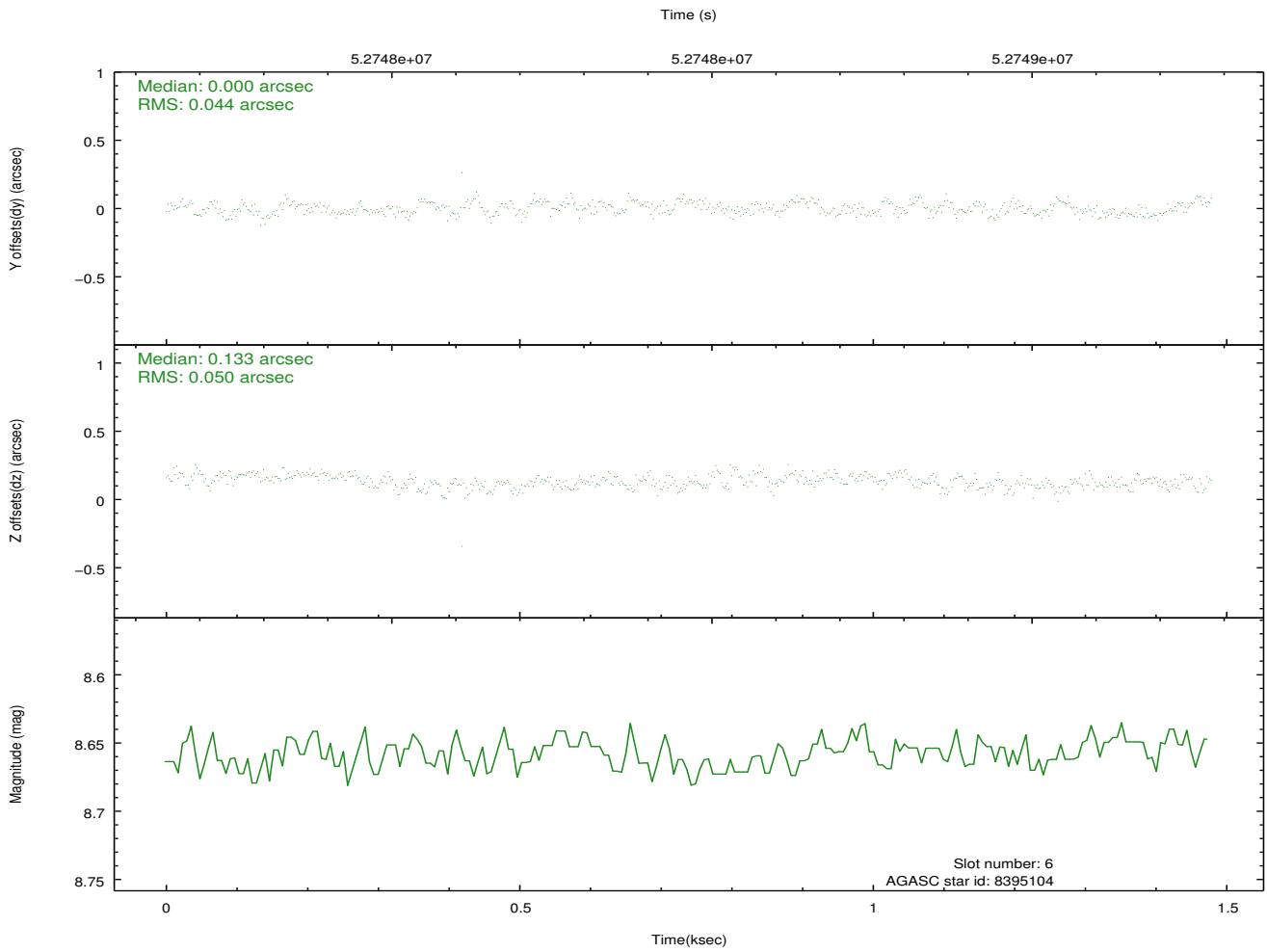
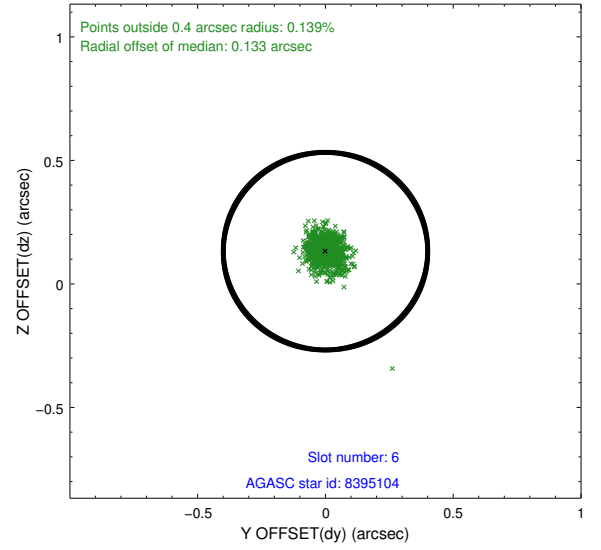
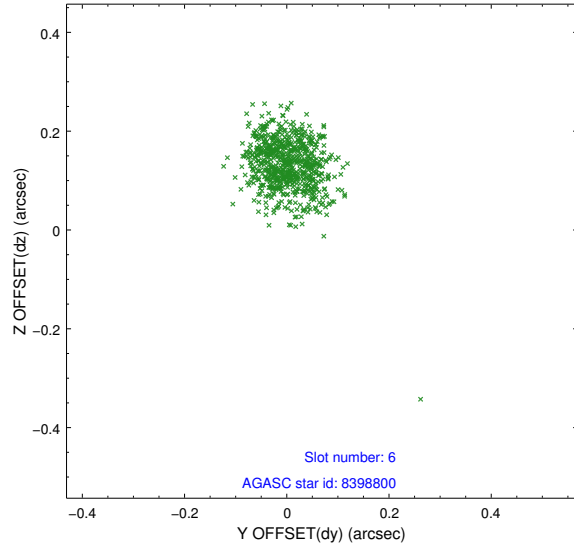
### 2.4.1 Slot 4



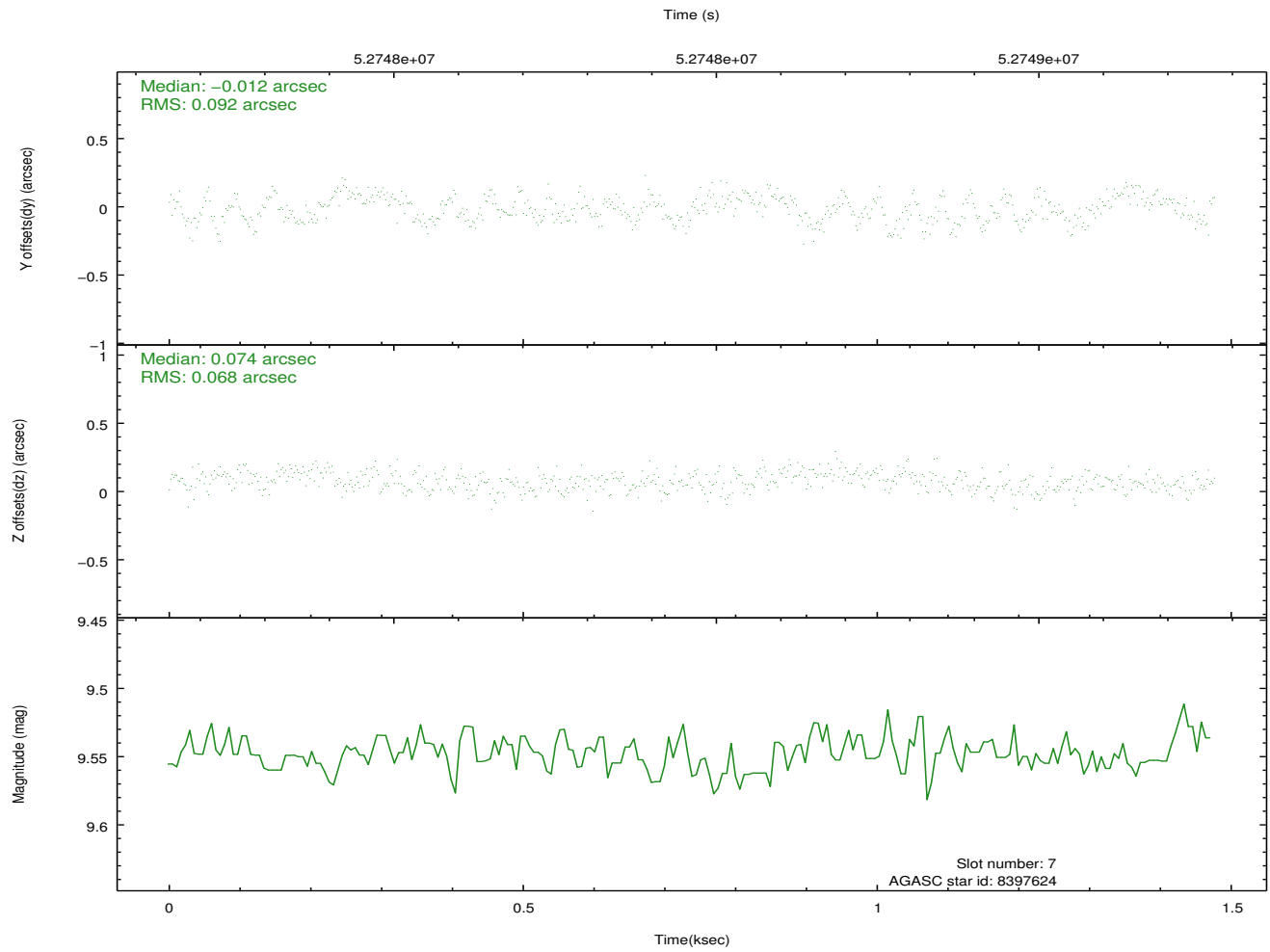
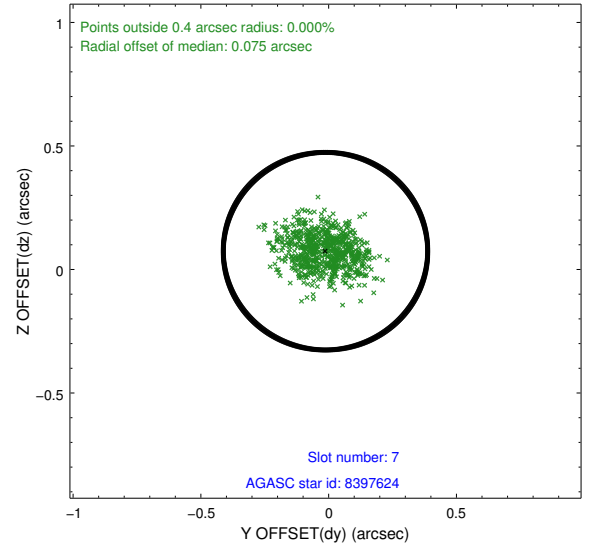
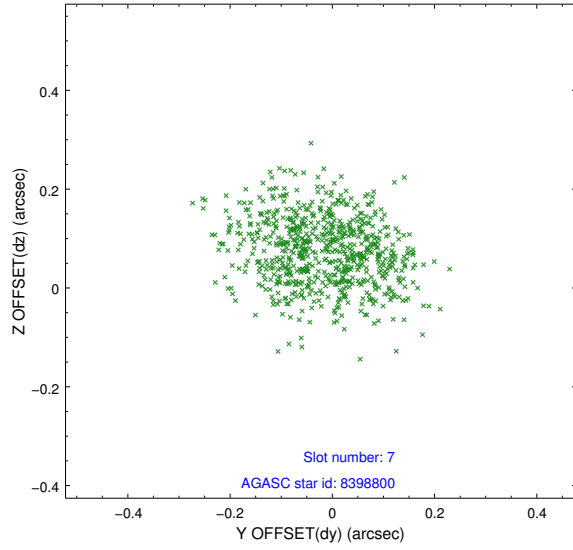
## 2.4.2 Slot 5



### 2.4.3 Slot 6

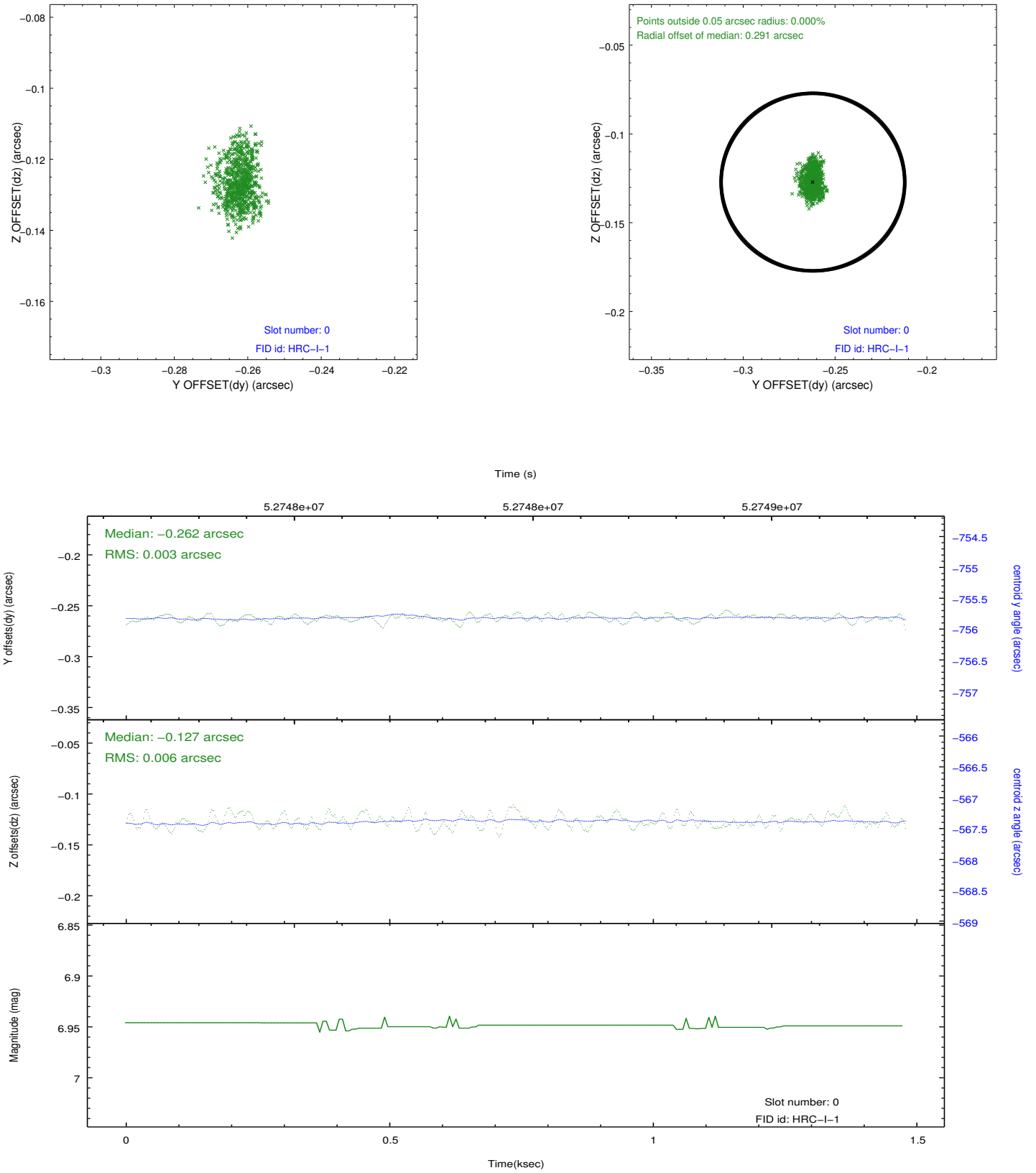


## 2.4.4 Slot 7

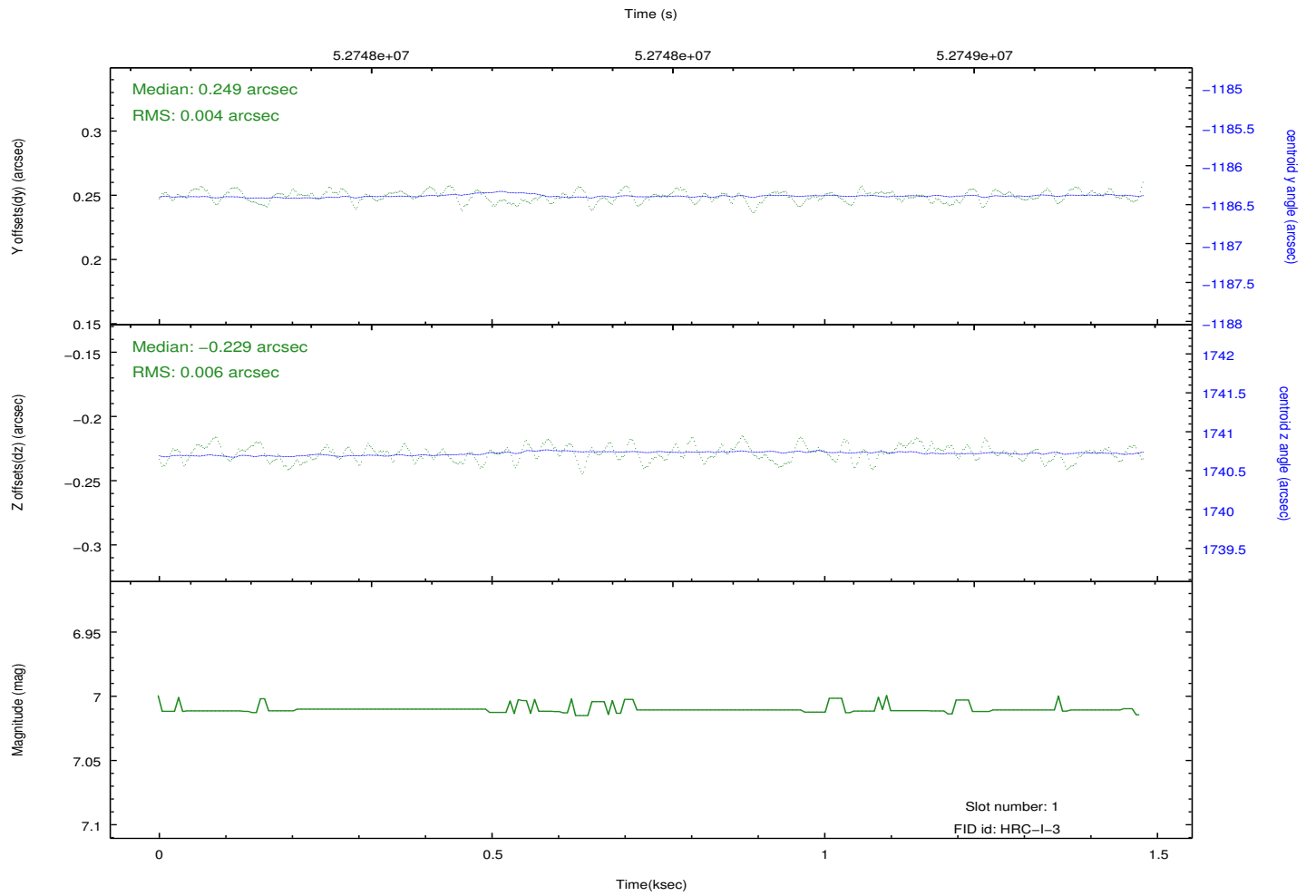
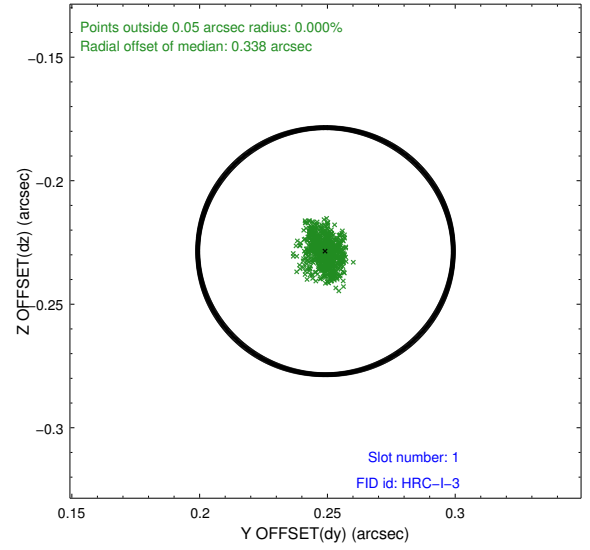
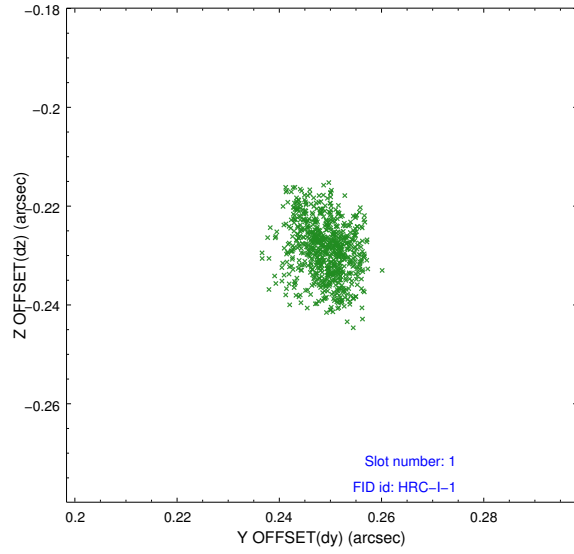


## 2.5 FID Slots

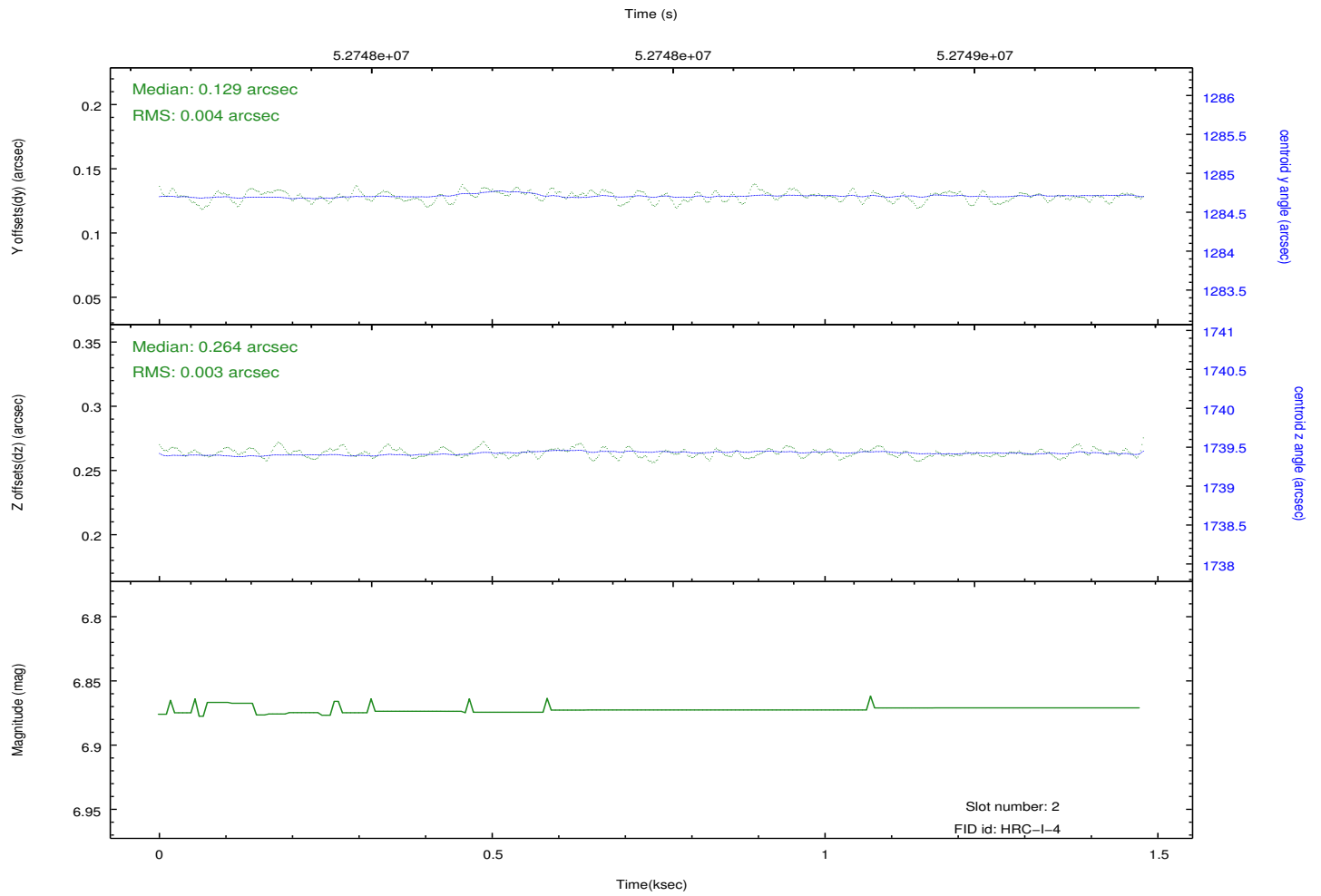
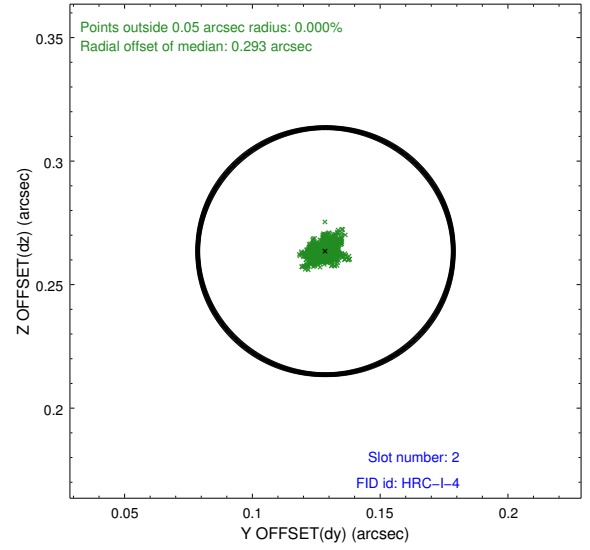
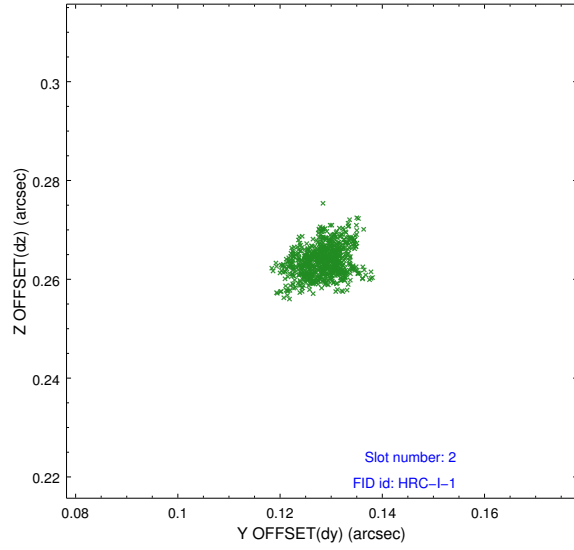
### 2.5.1 Slot 0



## 2.5.2 Slot 1

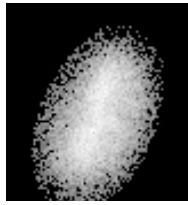


### 2.5.3 Slot 2



### 3 Point Sources

4.18 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.

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The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one fid light or guide star from the solution.