

V&V Reference Report

L2 ASCDS Version : 8.2.1

Observation 1127 - L2 Version 2

Chandra X-Ray Center

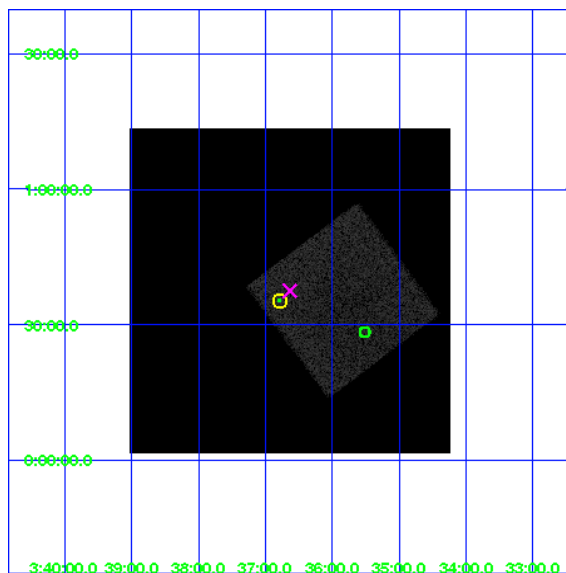
L2 Processing Date : Jan 12 2010

Contents

1	Front	2
2	OBI	3
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
2.5	FID Slots	12
2.5.1	Slot 0	12
2.5.2	Slot 1	13
2.5.3	Slot 2	14
3	Point Sources	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

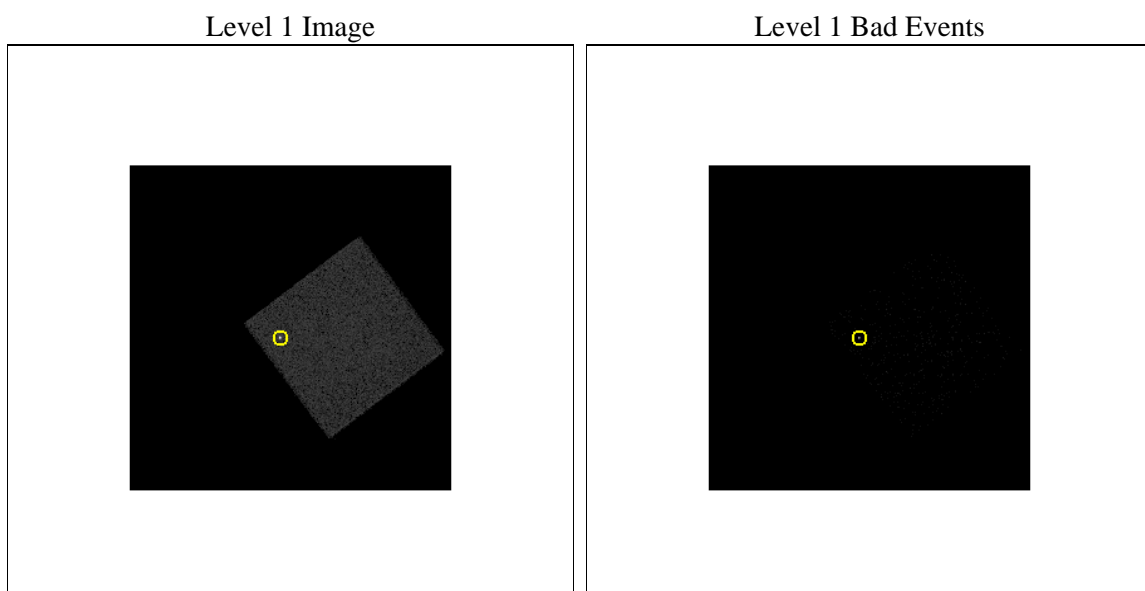
seq_num	280077	Sequence number
obs_id	1127	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA
dec_targ	0.589972	Observer's specified target Dec
ra_nom	54.158625202677	Nominal RA
dec_nom	0.62525157950769	Nominal Dec
roll_nom	98.196689983471	Nominal Roll
revision	2	Processing version of data
ontime	780.28127802908	[s]
livetime	773.41317896871	Ontime multiplied by DTCOR
l2events	35812	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	780.28127802908	[s]
caldbver	4.1.5	 	l1events	61388	Number of level 1 events
date	2010-01-12T22:25:55	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

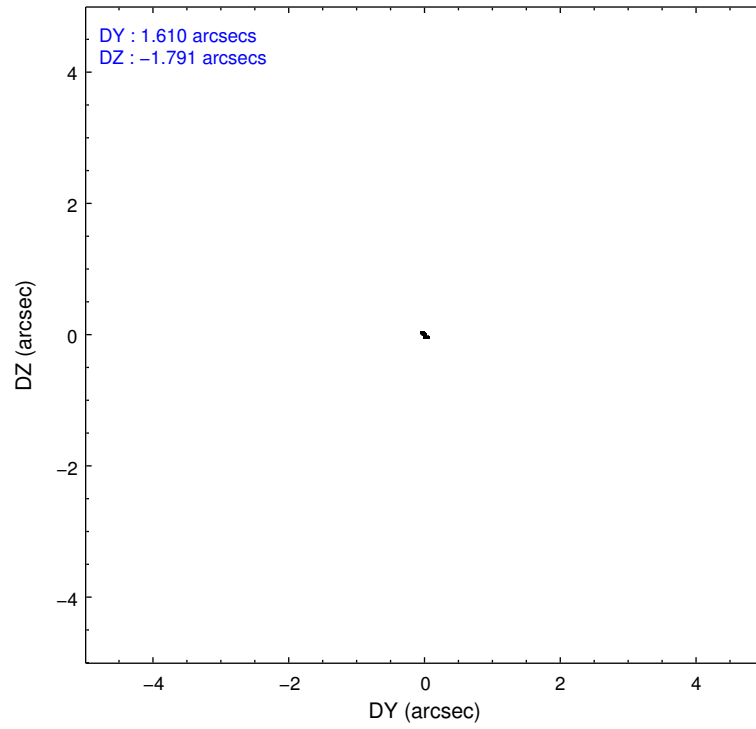
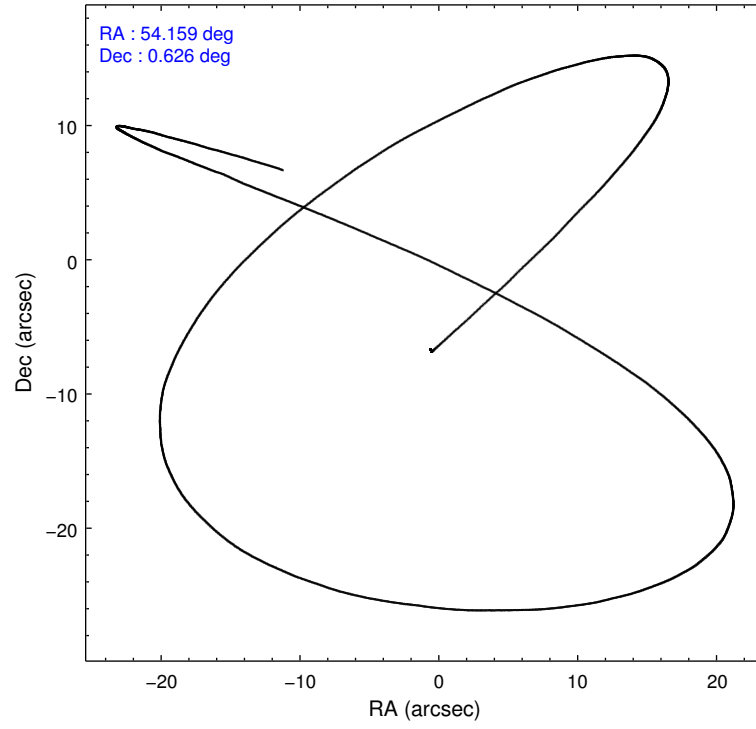
Level 1 Events

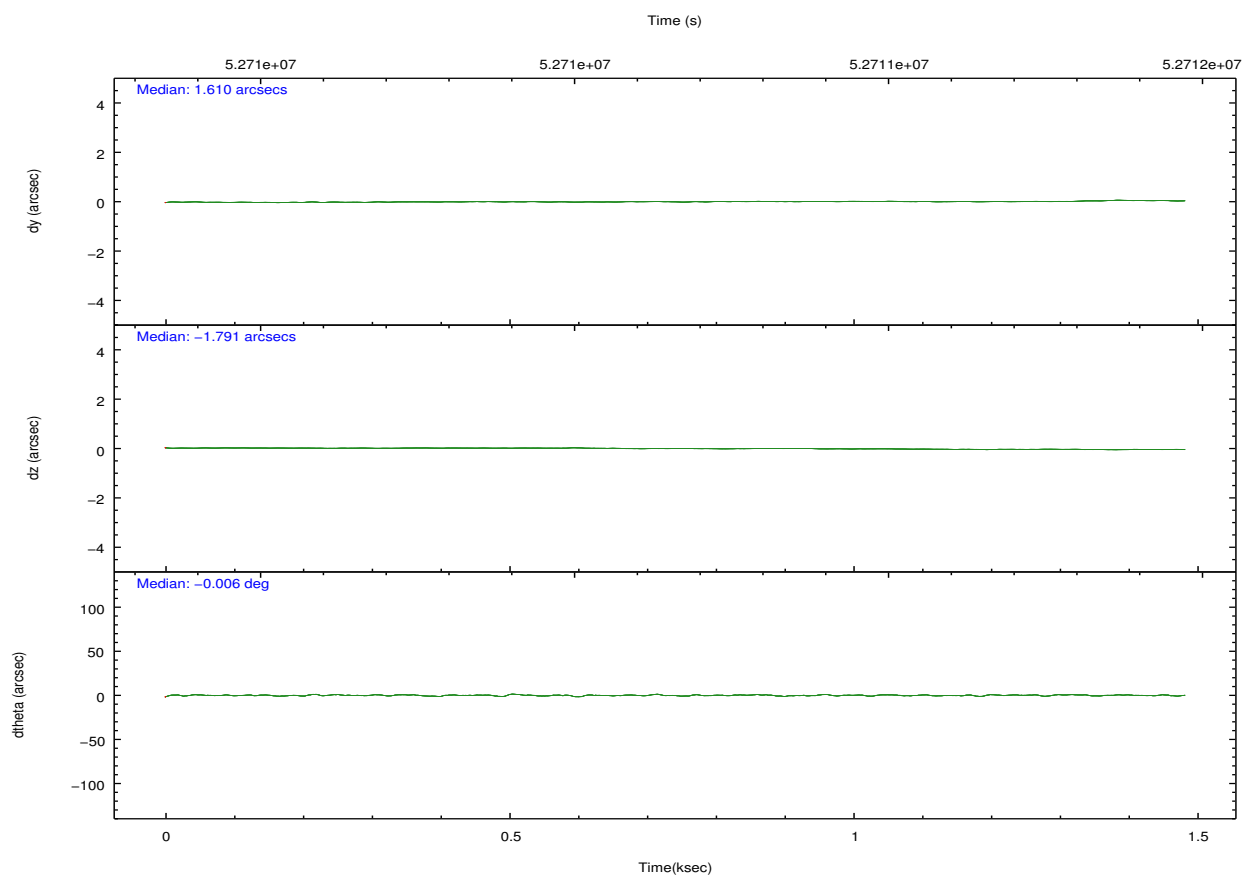
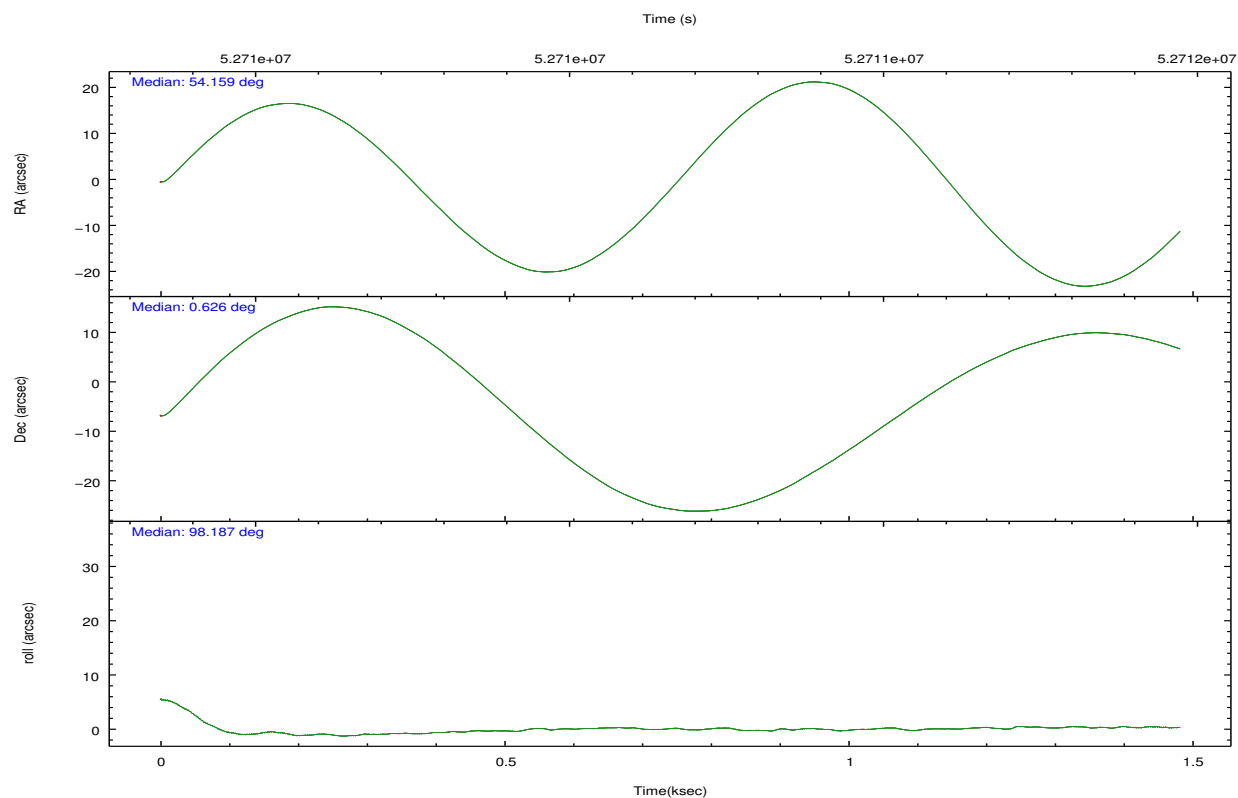
	segment 0
level 1 events	61388
rejected events	4333
rejected %	7%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	54.175697	54.15862520267736			
Pointing Dec	0.602685	0.6252515795076895			
Pointing Roll	98.291967	98.1966899834707			
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	52710402.184000	52709735.94374			
Observation start date	1999-09-03T01:45:38	1999-09-03T01:35:35			
Observation end time	52711402.184000	52711535.843805			
Observation end date	1999-09-03T02:02:18	1999-09-03T02:05:35			

2.3 Aspect



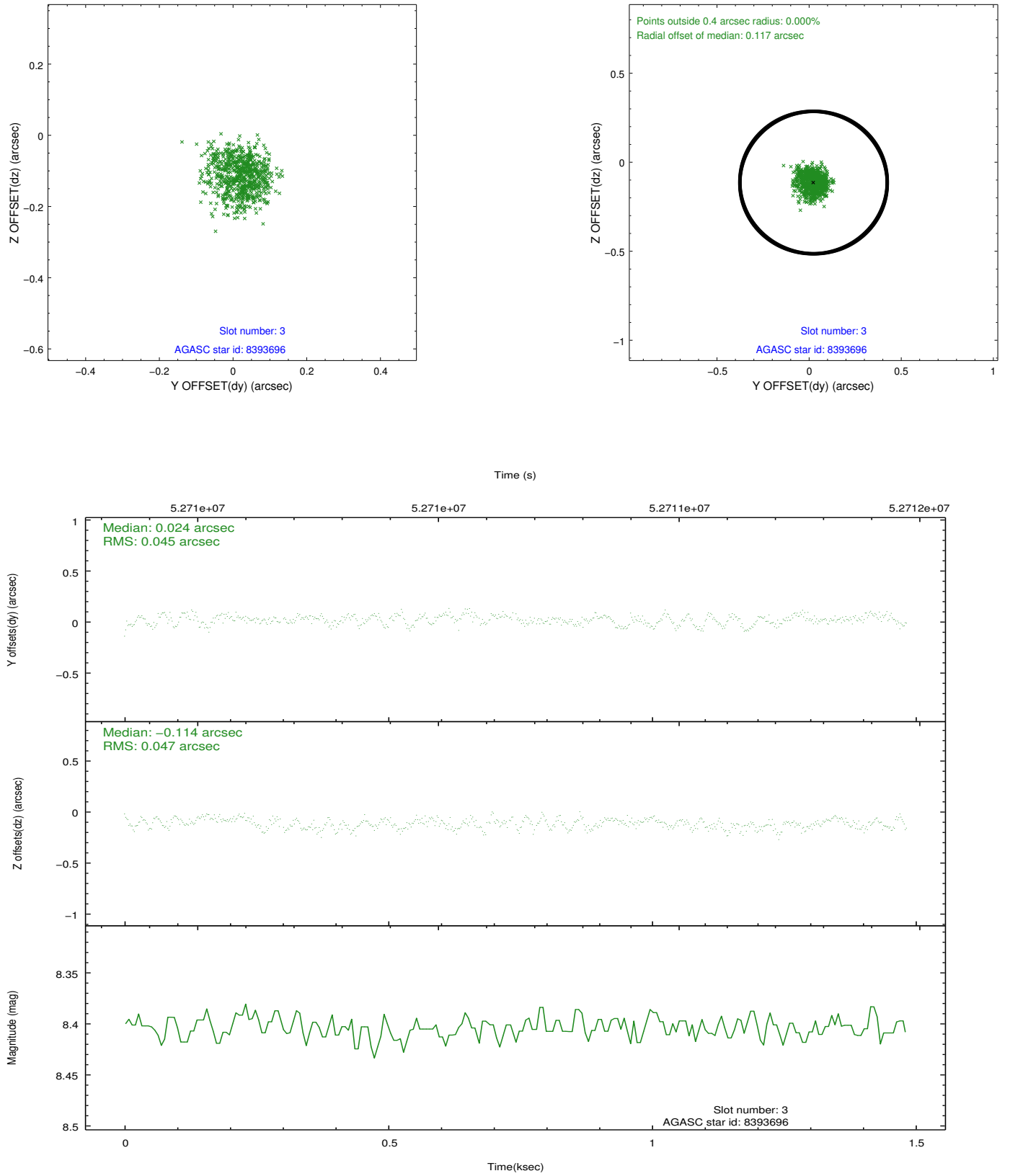


Slot Statistics

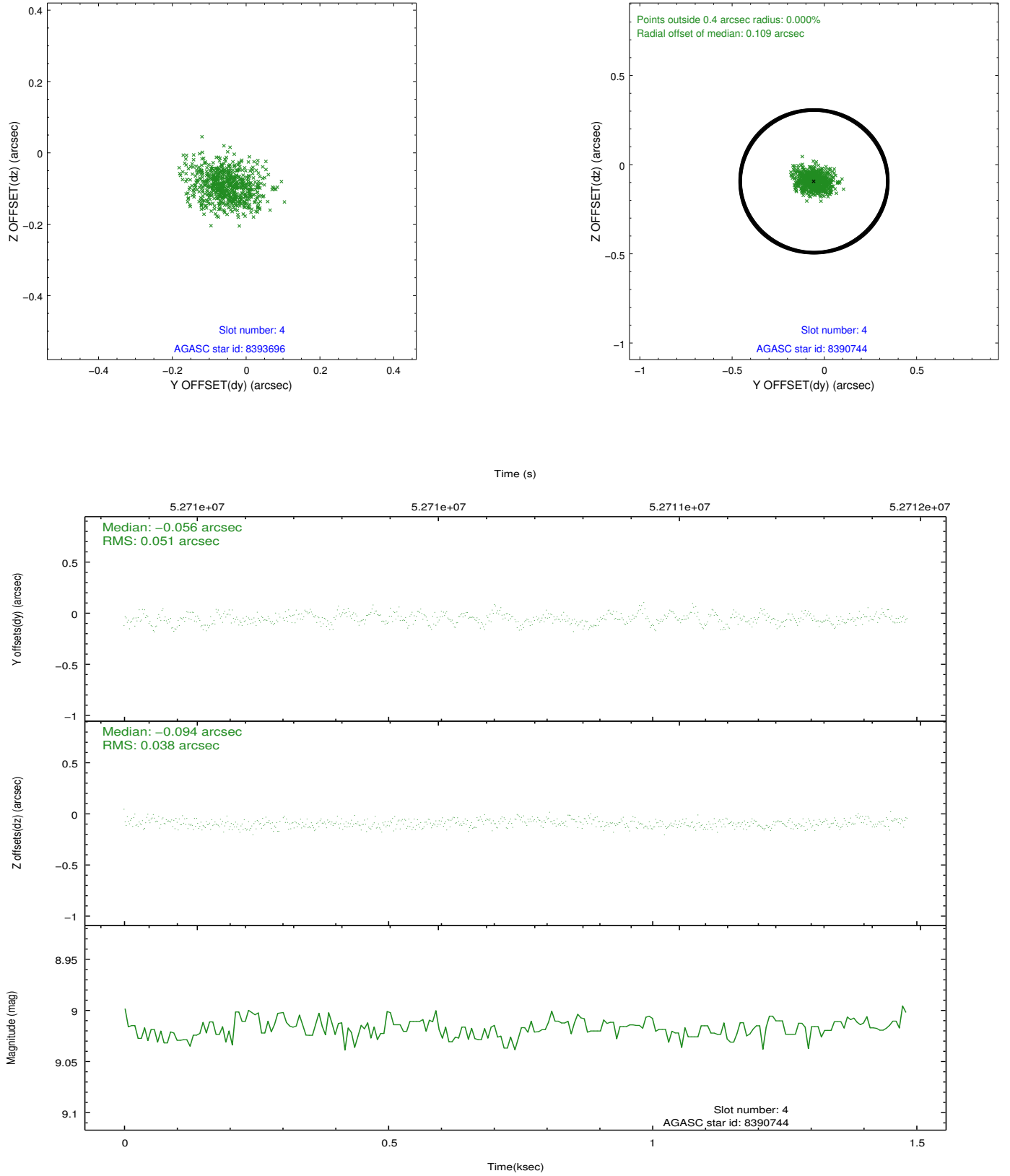
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	716	-0.267	-0.173	0.007	0.011	0.000000	0.000000	-755.75	-567.98
1	FID	HRC-I-3	7.01	714	0.249	-0.195	0.007	0.011	0.000000	0.000000	-1187.42	1739.41
2	FID	HRC-I-4	6.88	718	0.133	0.277	0.005	0.008	0.000000	0.000000	1283.09	1741.35
3	GUIDE	8393696	8.40	716	0.024	-0.114	0.070	0.110	53.645666	0.680479	548.09	1847.56
4	GUIDE	8390744	9.02	720	-0.056	-0.094	0.068	0.113	53.677290	0.926294	1408.18	1609.90
5	GUIDE	8395104	8.66	714	0.031	0.203	0.077	0.118	54.744893	0.796520	393.56	-2125.65
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
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

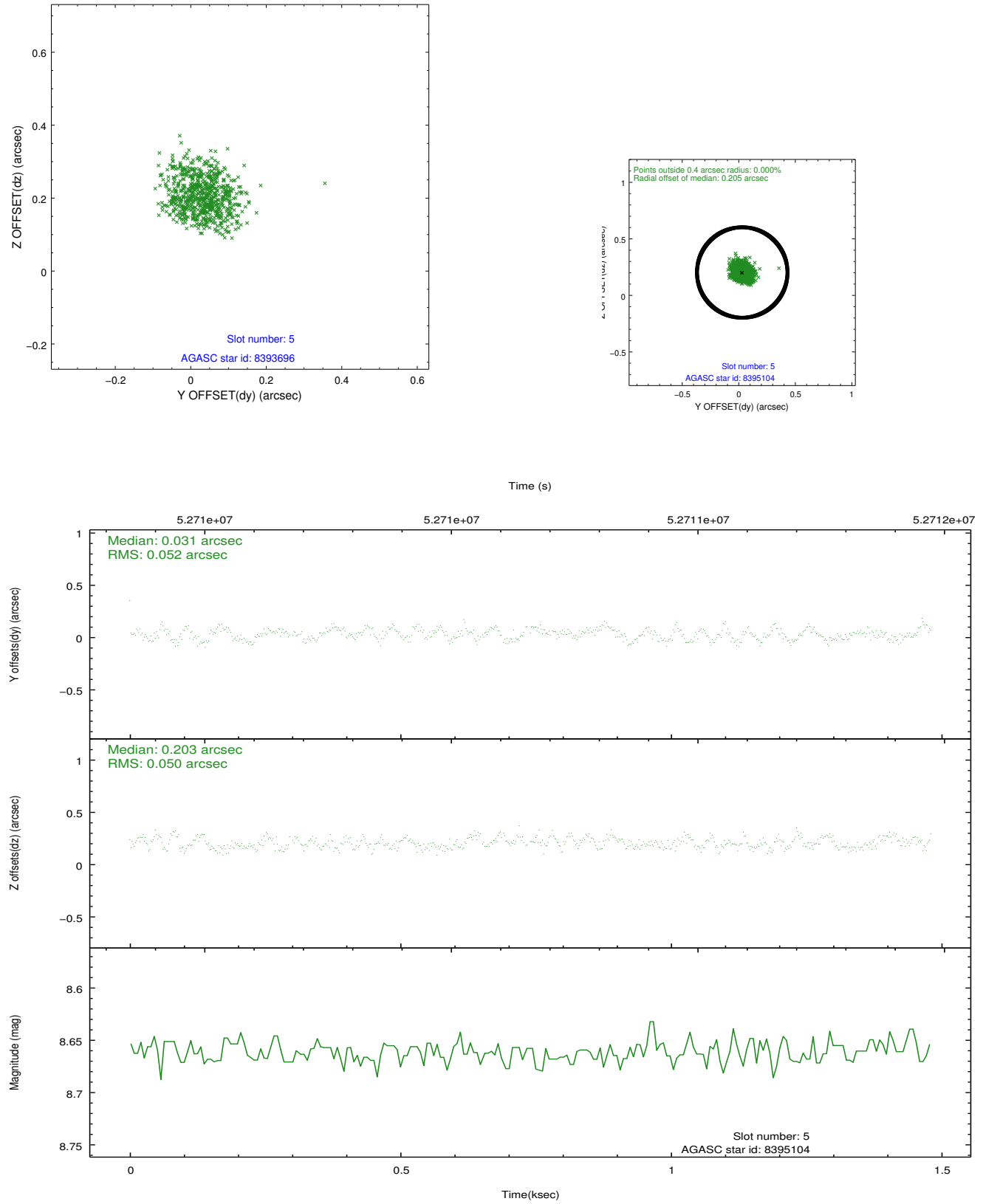
2.4.1 Slot 3



2.4.2 Slot 4

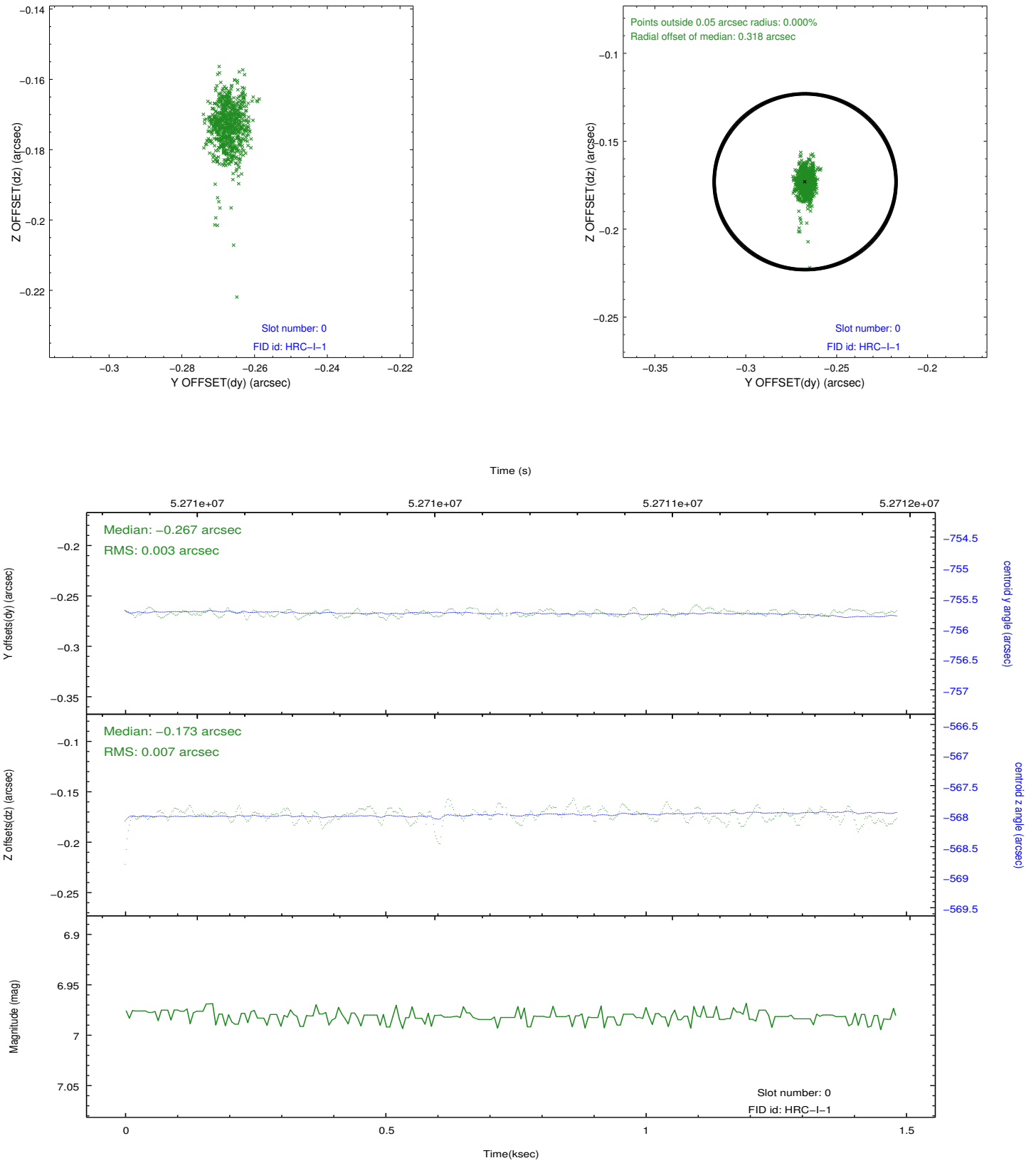


2.4.3 Slot 5

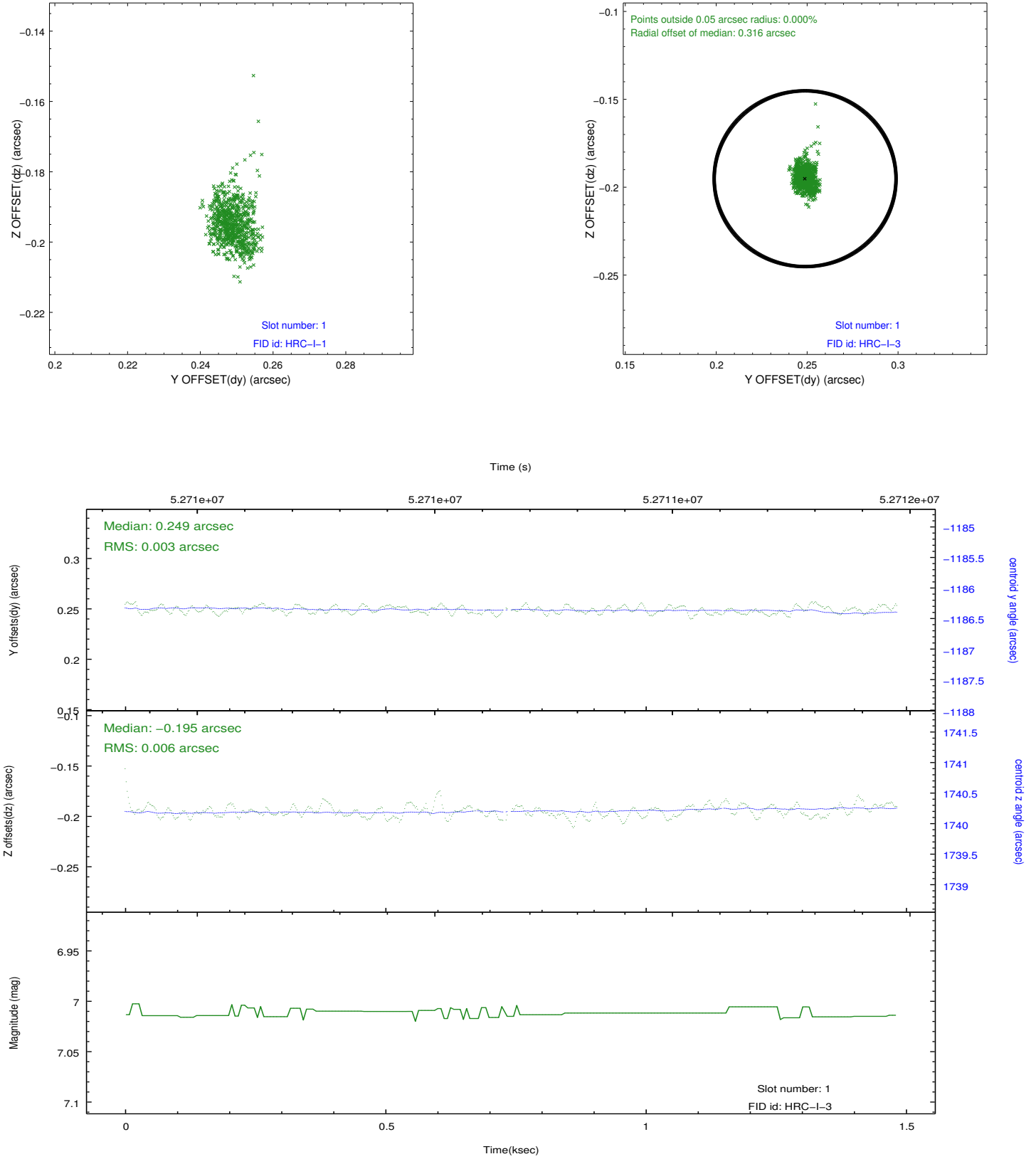


2.5 FID Slots

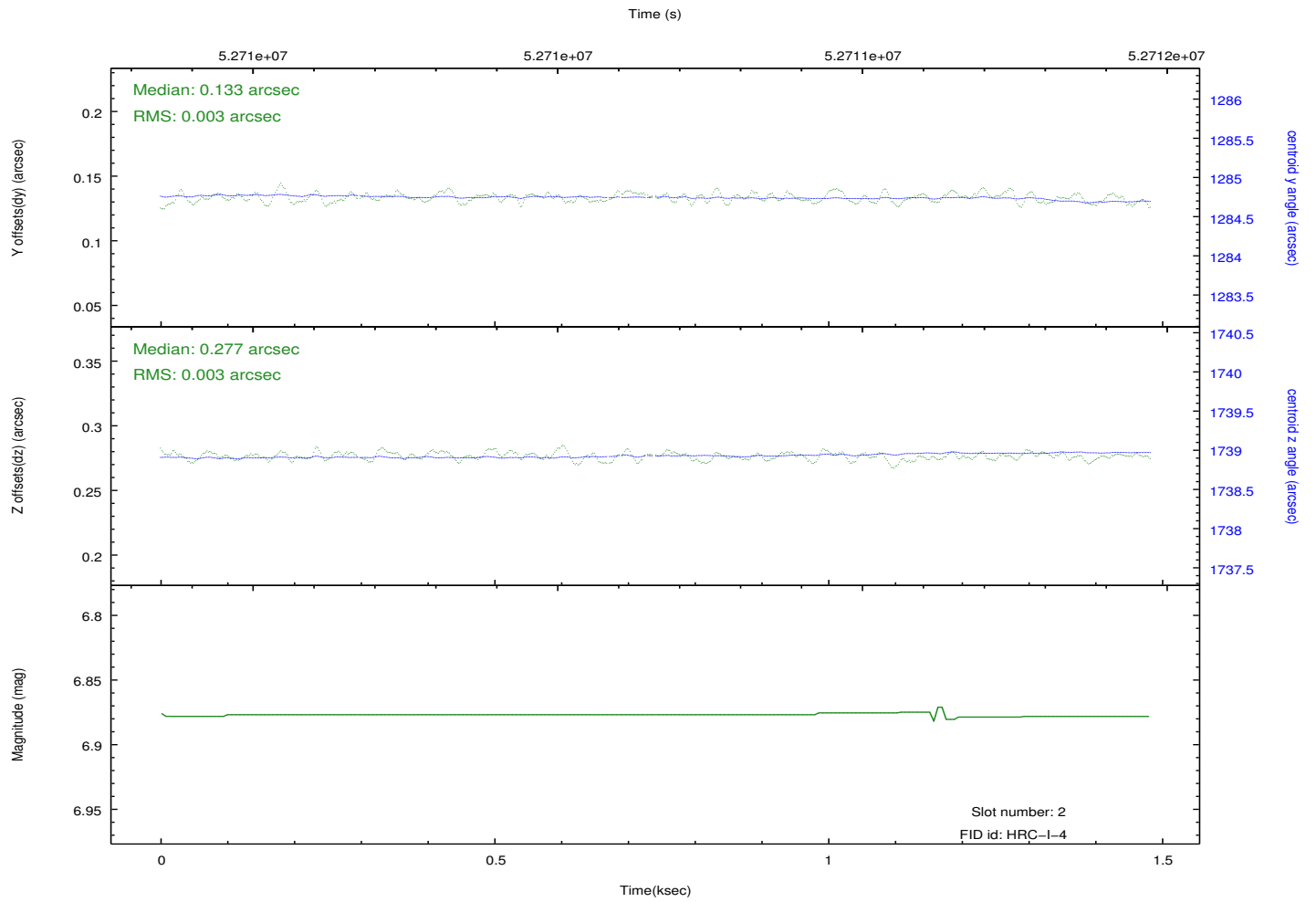
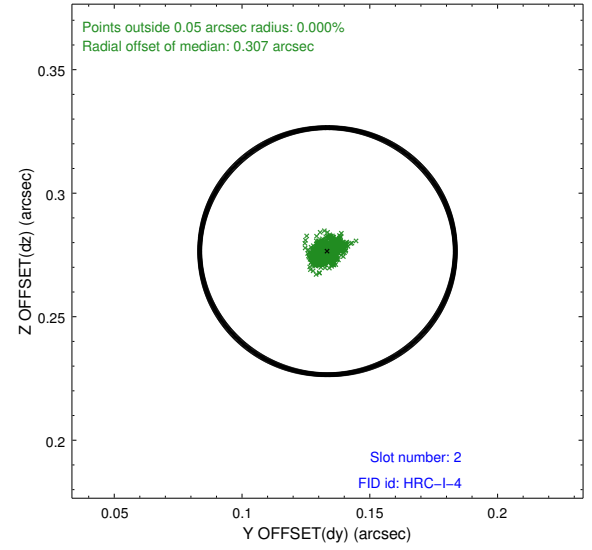
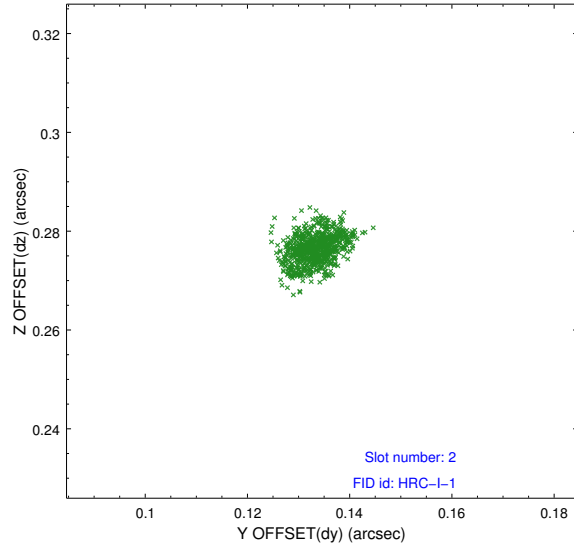
2.5.1 Slot 0



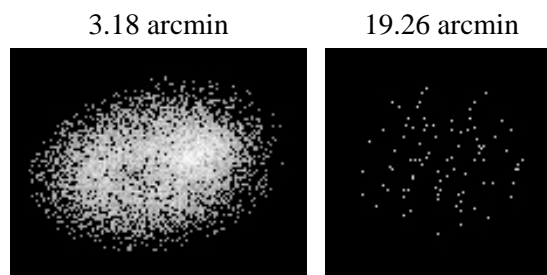
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



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	0.683

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.===

Charge time for this observation remains at previous value of 0.683 ksec, although with the current processing the charge time would have been 0.78 ksec.
==

Two guide stars were not acquired for this observation, possibly due to the coordinate issue. The guide stars in slots 6 and 7 no acquired or tracked. The aspect solution is expected to be somewhat degraded by removing two guide stars from the solution.