

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 13114 - L2 Version 4
Chandra X-Ray Center

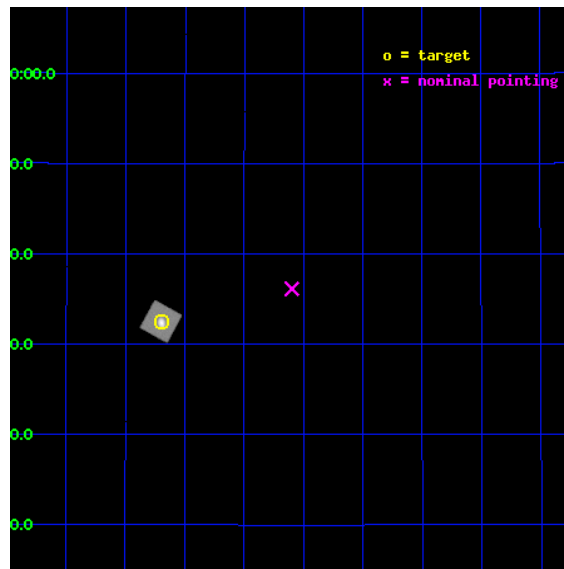
L2 Processing Date : Jul 28 2012

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1 Front

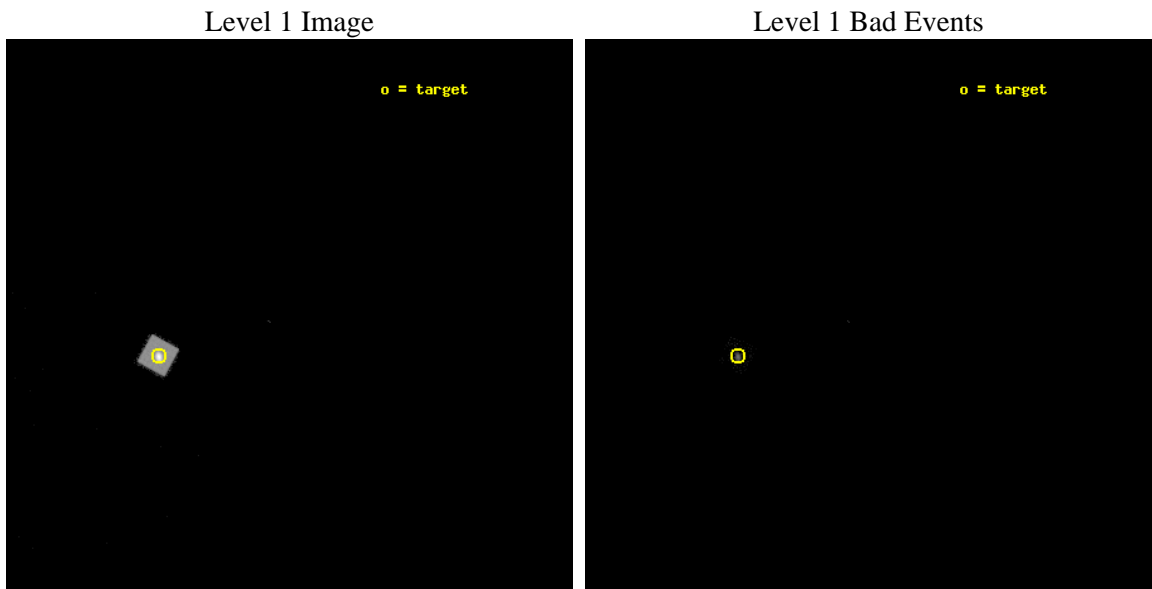
seq_num	990017	Sequence number
obs_id	13114	Observation id
title	AO-12 Calibration Observations of the ACIS charged particle background	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	31 Com	Source name
ra_targ	192.924583	Observer's specified target RA [deg]
dec_targ	27.540722	Observer's specified target Dec [deg]
ra_nom	192.649324131	Nominal RA [deg]
dec_nom	27.602558458119	Nominal Dec [deg]
roll_nom	253.78905405797	Nominal Roll [deg]
revision	4	Processing version of data
ontime	49692.002596915	[s]
livetime	44227.910269261	Ontime multiplied by DTCOR
l2events	92988	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	50000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	49757.602596819	[s]
caldbver	4.5.1	 	l1events	108755	Number of level 1 events
date	2012-07-28T00:44:36	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

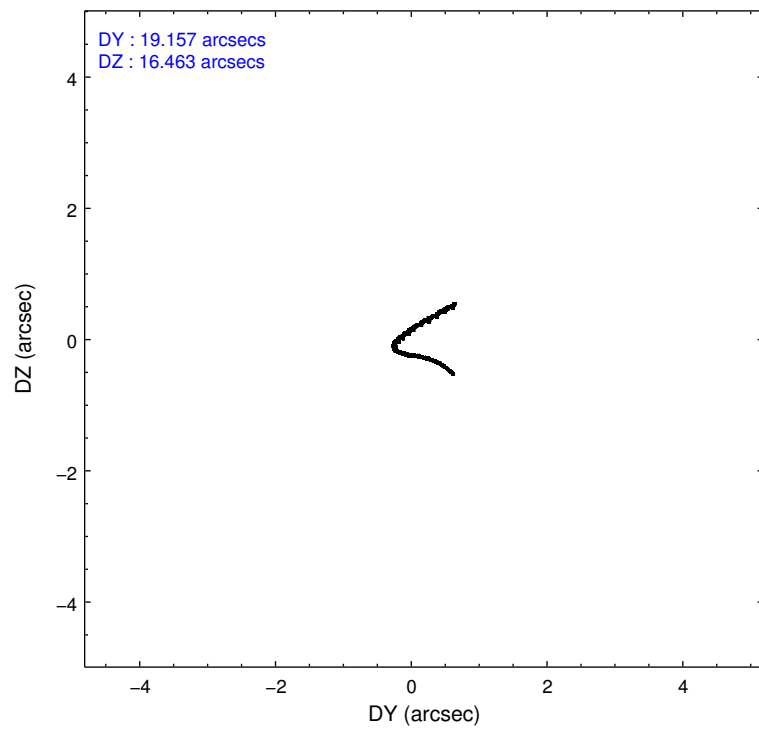
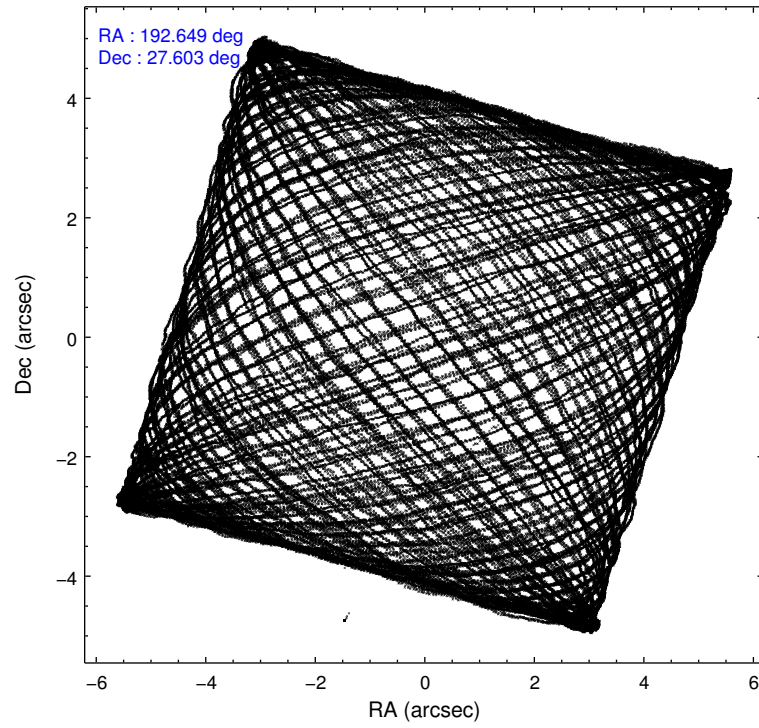
Level 1 Events

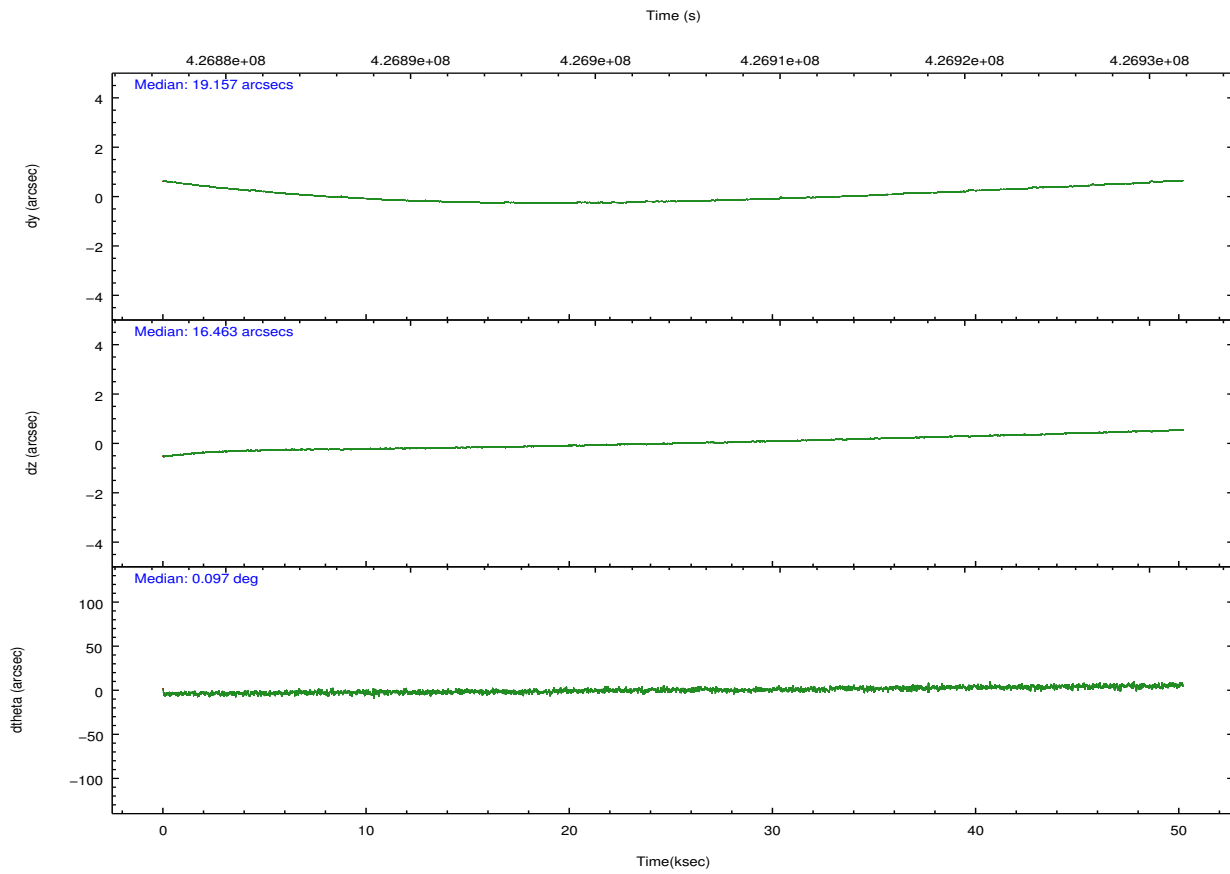
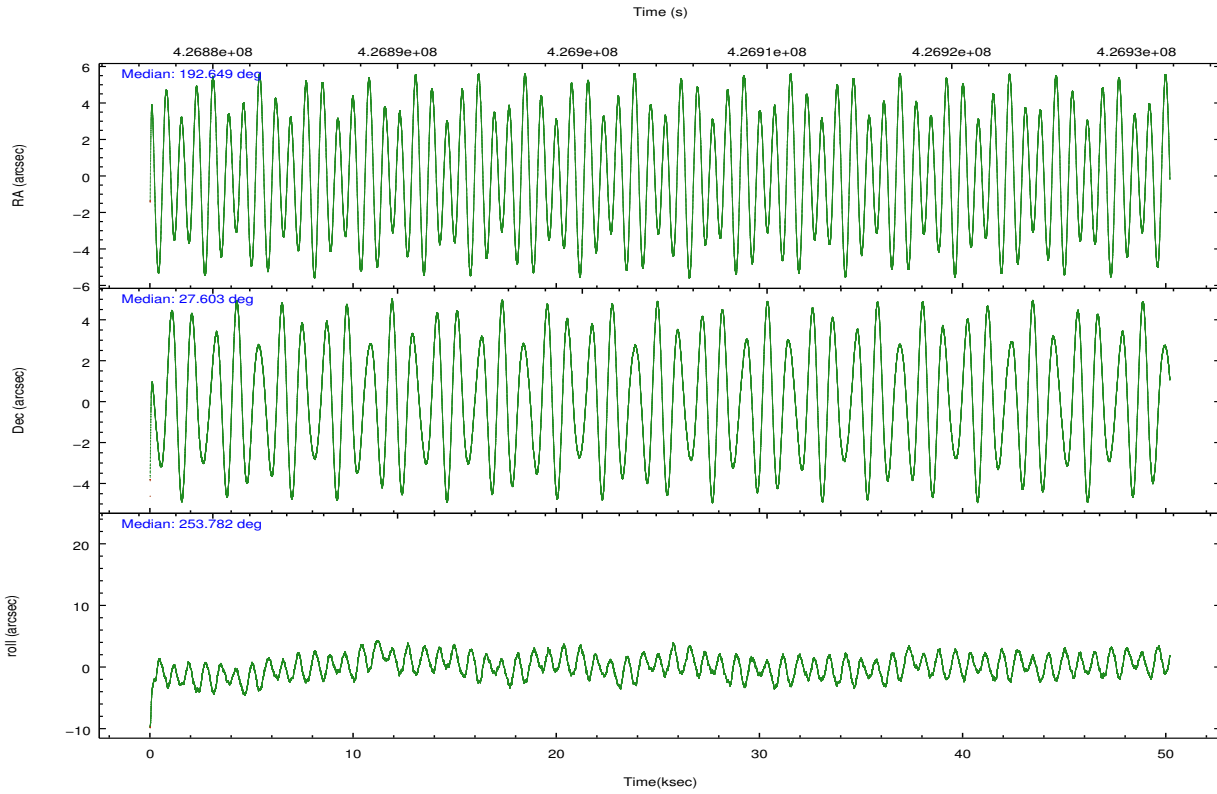
	segment 0
level 1 events	108755
rejected events	2713
rejected %	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	NEXT_IN_LINE	NEXT_IN_LINE			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	192.641321	192.6493241309993			
[deg] Pointing Dec	27.628823	27.60255845811875			
[deg] Pointing Roll	253.888253	253.7890540579696			
[s] Window start time (MET)	420595266.184000	420595266.184000			
[s] Window stop time (MET)	428457666.184000	428457666.184000			
[mm] SIM focus pos	-1.038866356238299	-1.038866356238299			
[mm] SIM defocus	0.00142623211714632	0.00142623211714632			
[mm] SIM translation stage pos	51.9960404362608	51.9960404362608			
[mm] SIM translation stage offset	74.989453869027	74.989453869027			
[s] Observation start time (MET)	426877293.851421	426877293.851421			
Observation start date	2011-07-12T17:01:34	2011-07-12T17:01:33			
[s] Observation end time (MET)	426929310.554139	426929310.554139			
Observation end date	2011-07-13T07:28:31	2011-07-13T07:28:30			

2.3 Aspect



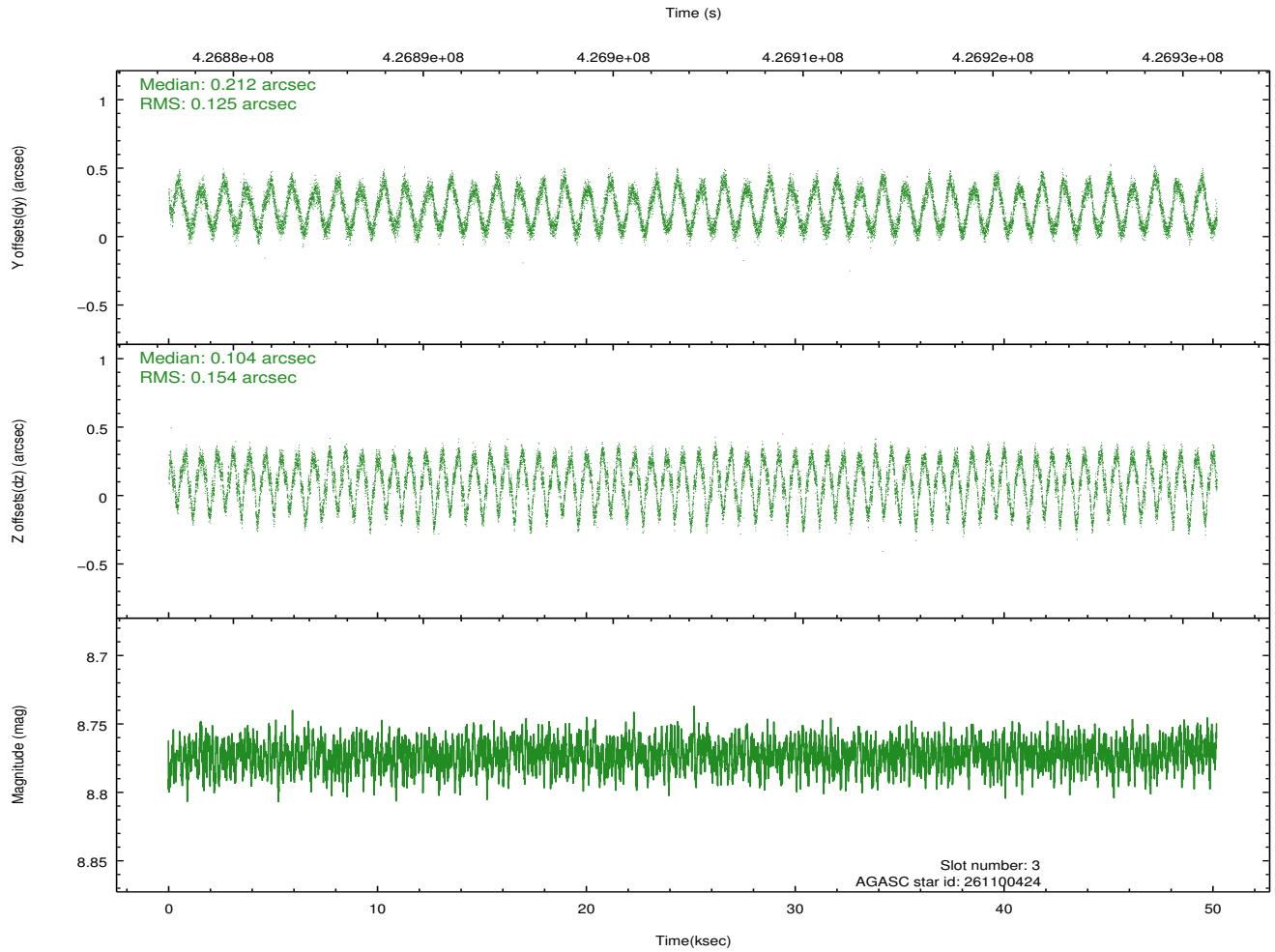
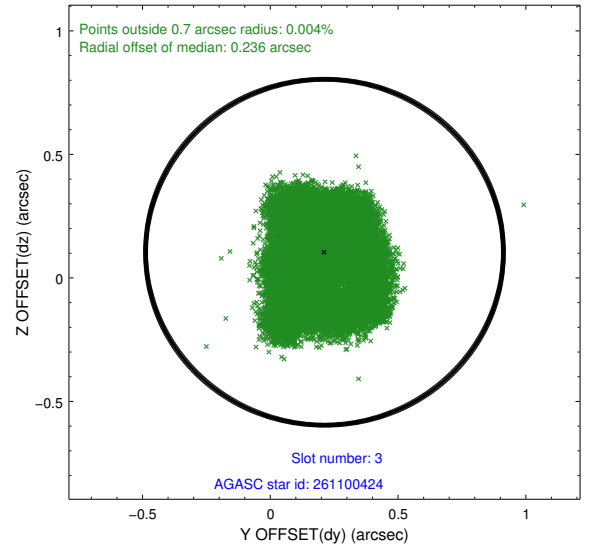
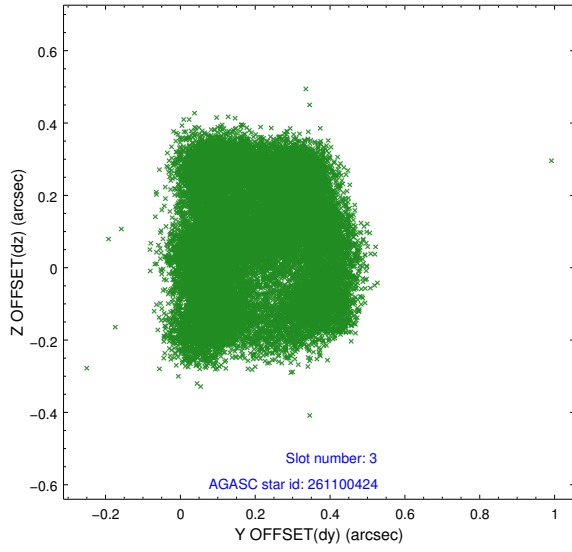


Slot Statistics

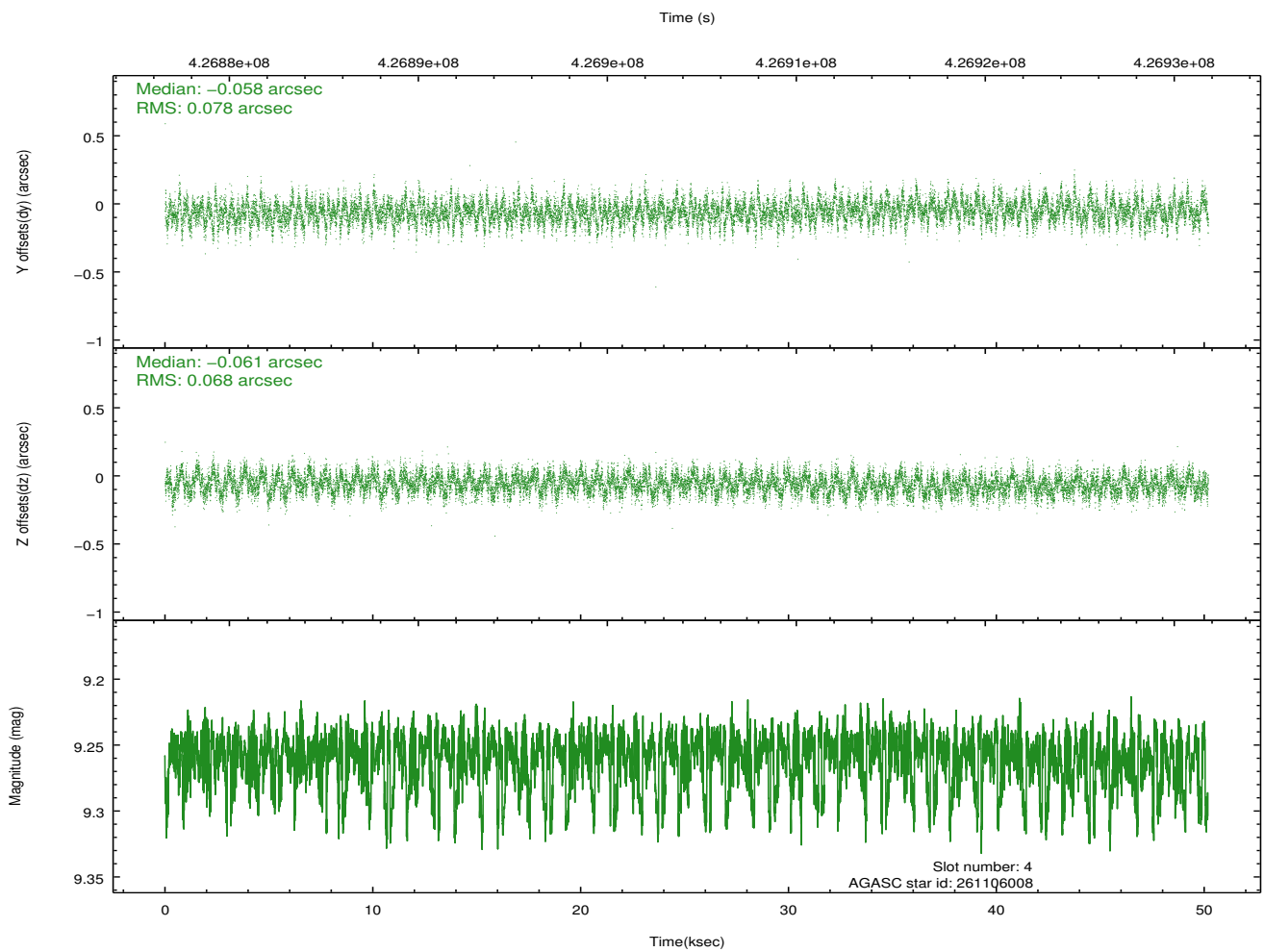
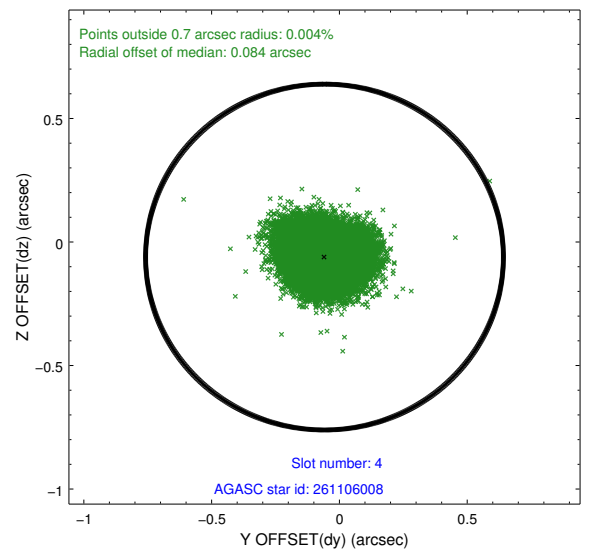
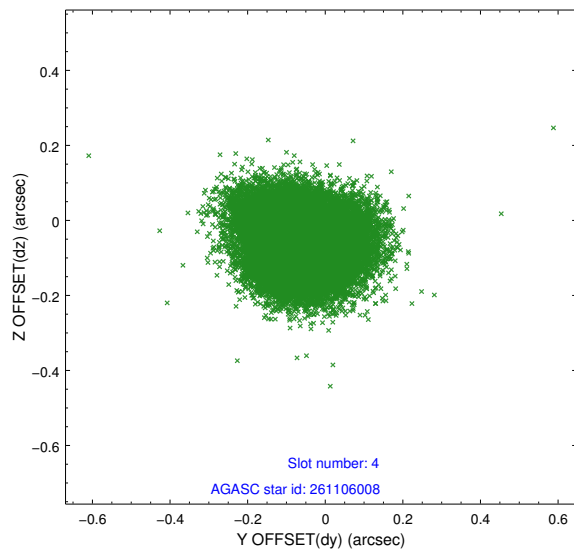
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.85	12242	-0.715	-0.029	0.005	0.012	0.000000	0.000000	-773.92	233.21
1	FID	HRC-I-2	6.96	12240	0.794	-0.025	0.005	0.012	0.000000	0.000000	837.08	234.32
2	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	261100424	8.77	24476	0.212	0.104	0.219	0.315	192.107071	27.783953	-67.02	-1790.75
4	GUIDE	261106008	9.26	24452	-0.058	-0.061	0.110	0.178	191.902860	27.409319	1408.25	-2050.22
5	GUIDE	261113144	6.25	24483	0.071	-0.164	0.174	0.240	192.322716	27.552380	546.02	-901.94
6	GUIDE	261507256	8.33	24472	-0.220	0.123	0.111	0.179	193.022402	28.129301	-2068.30	662.25
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

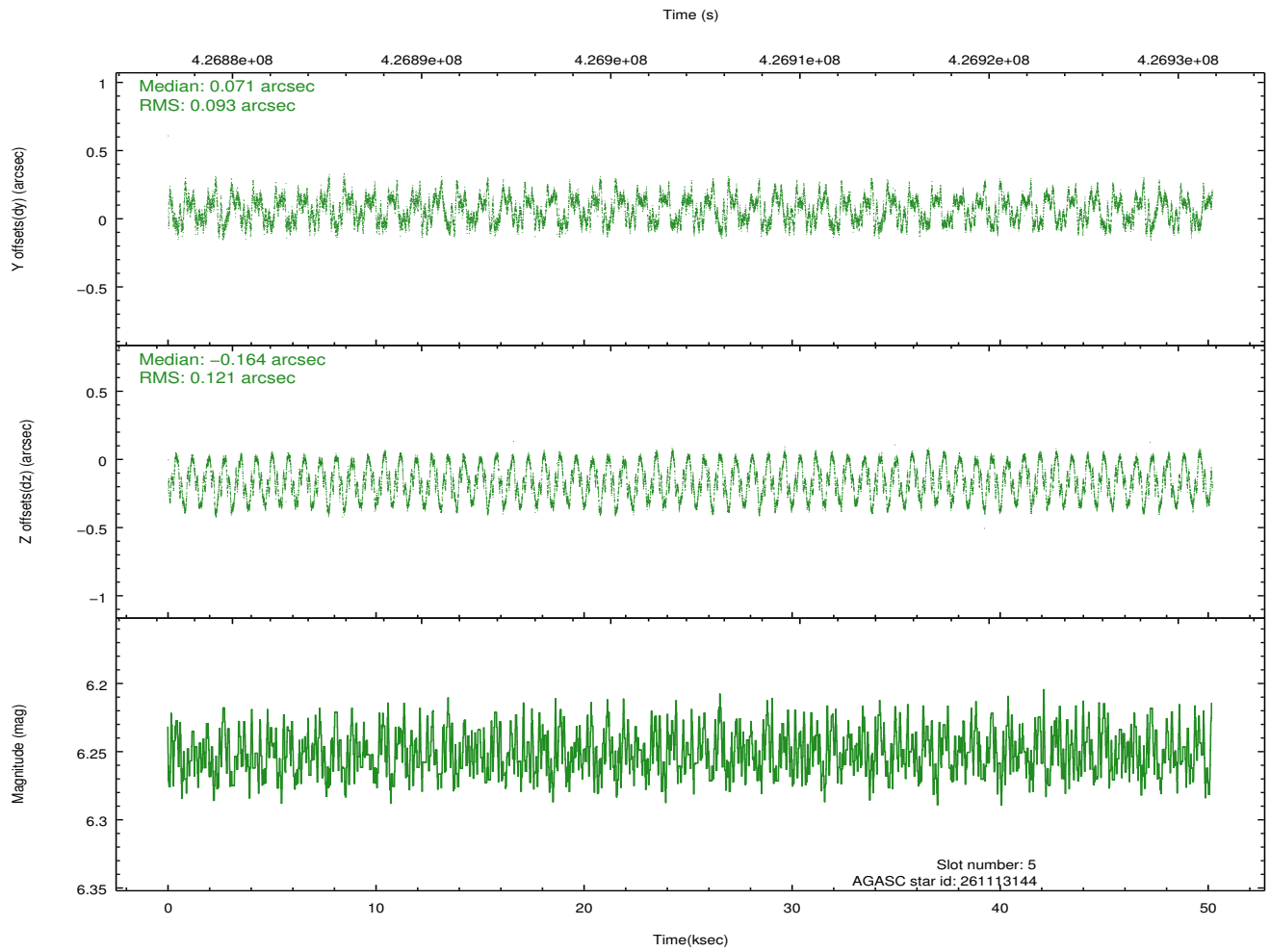
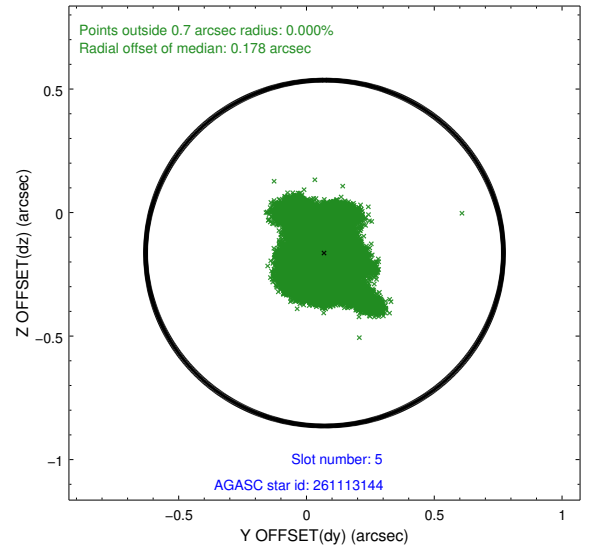
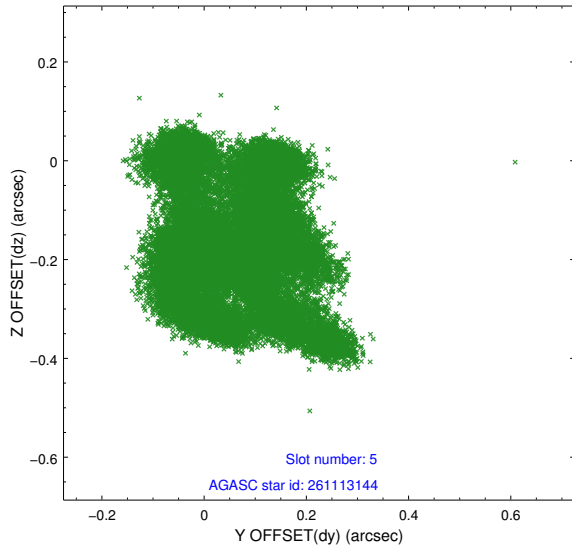
2.4.1 Slot 3



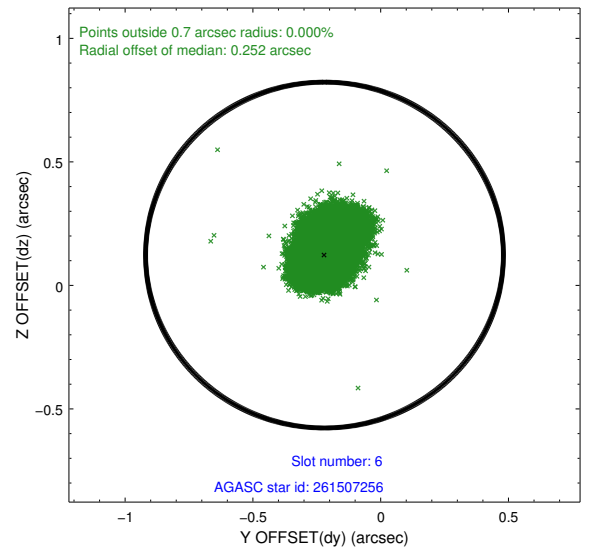
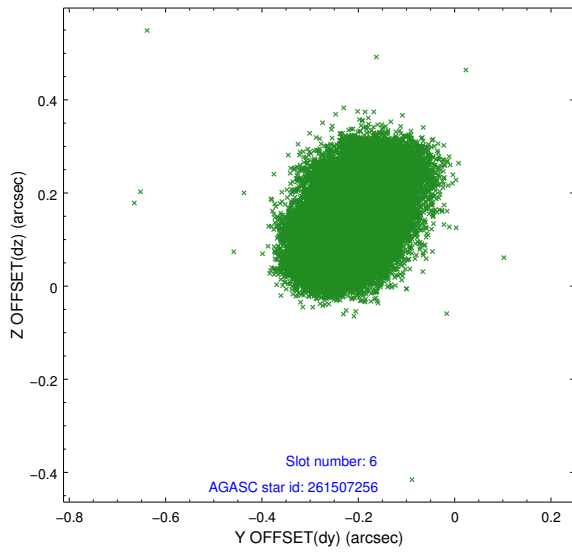
2.4.2 Slot 4



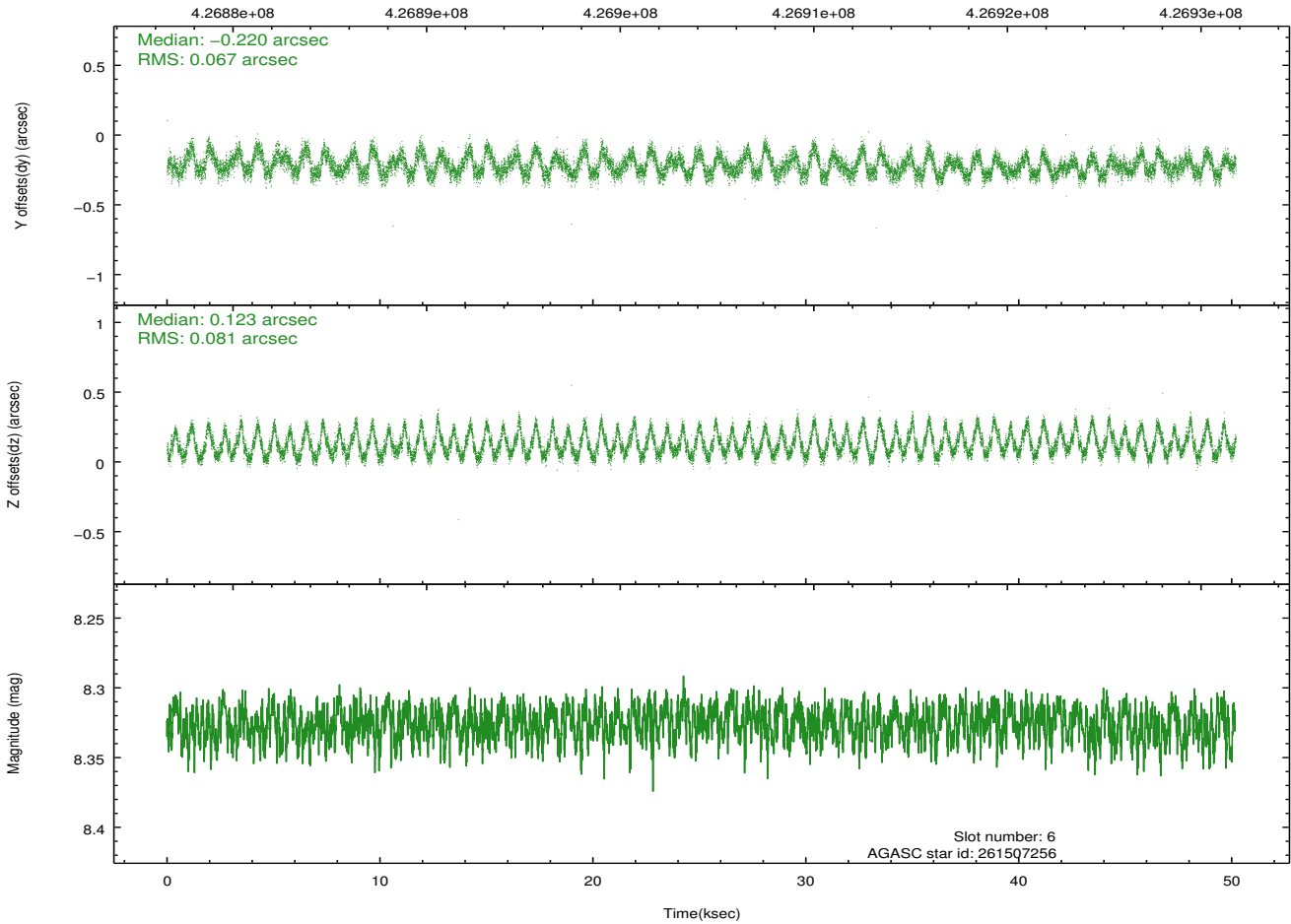
2.4.3 Slot 5



2.4.4 Slot 6

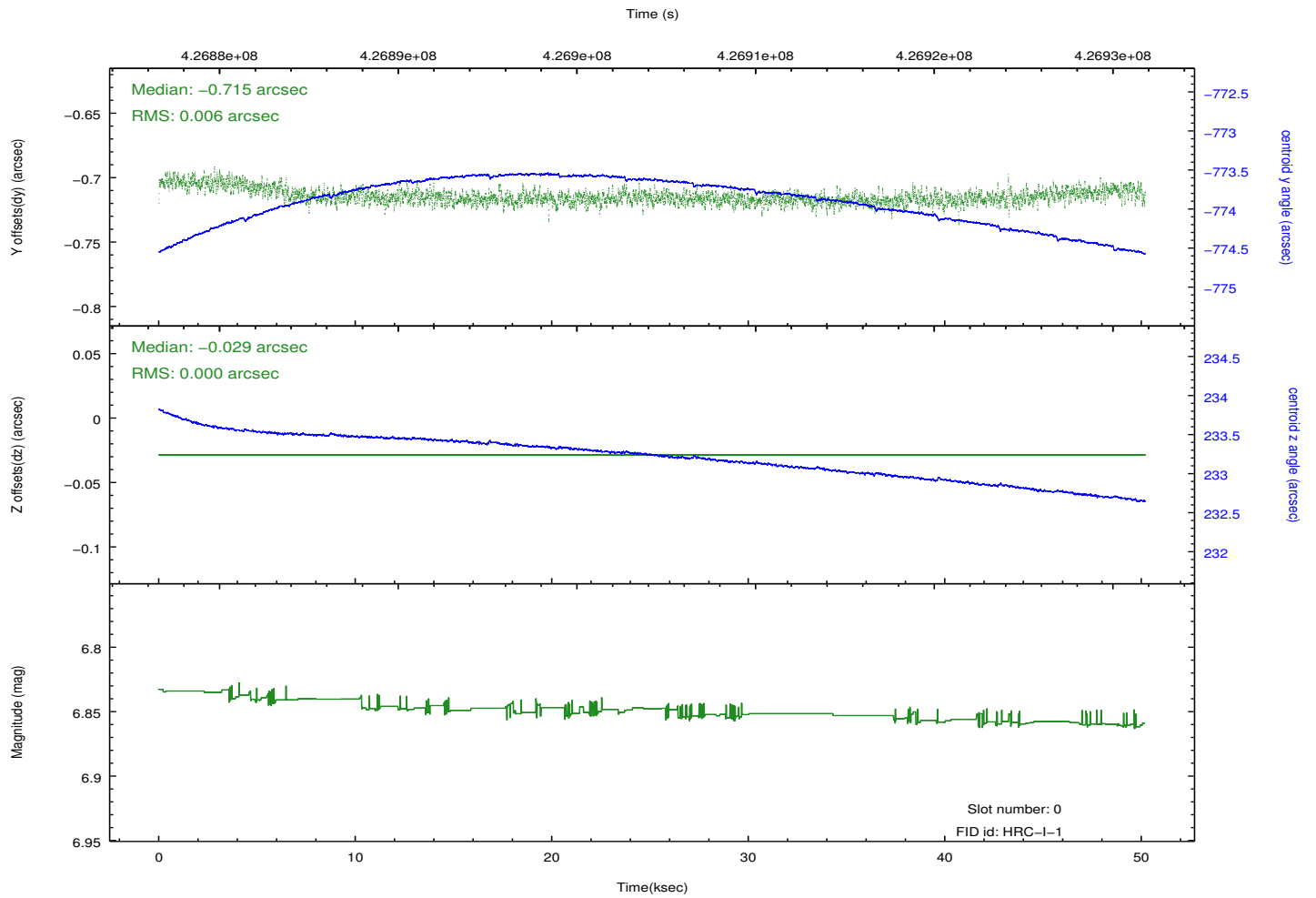
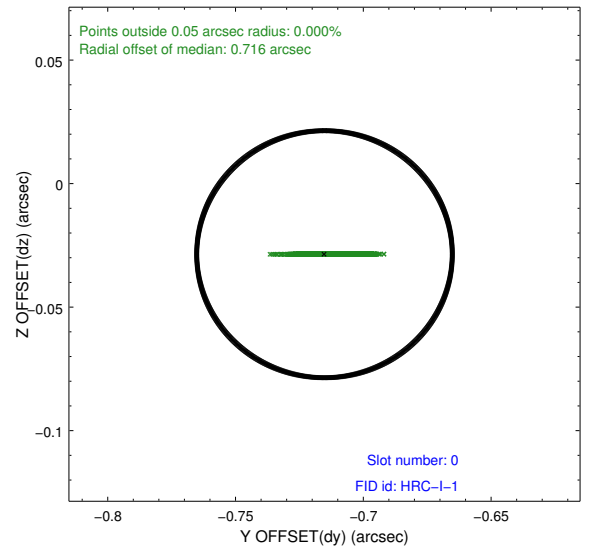
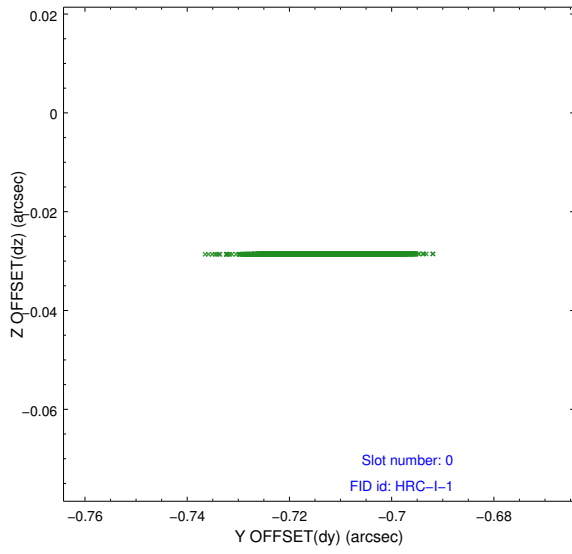


Time (s)

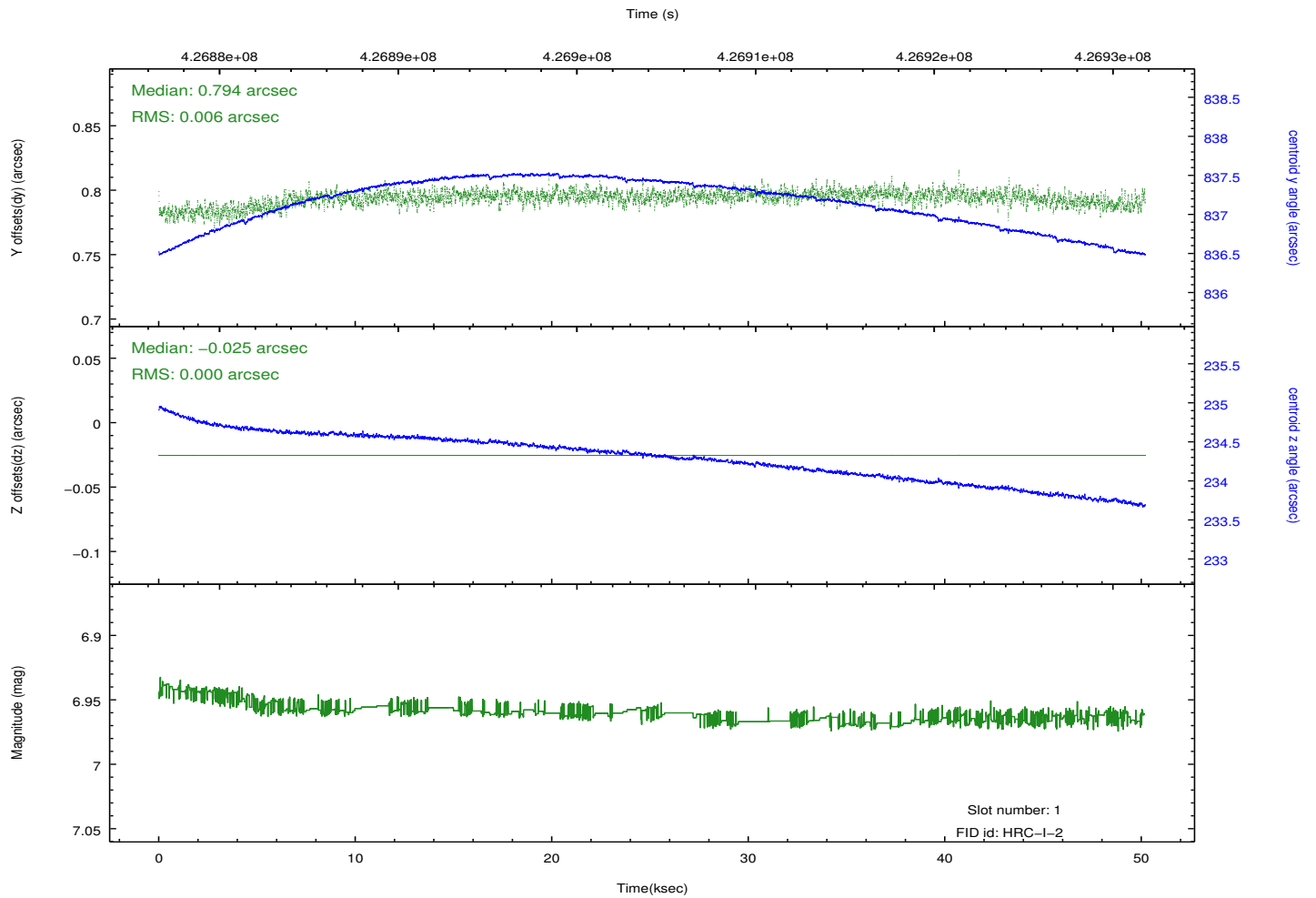
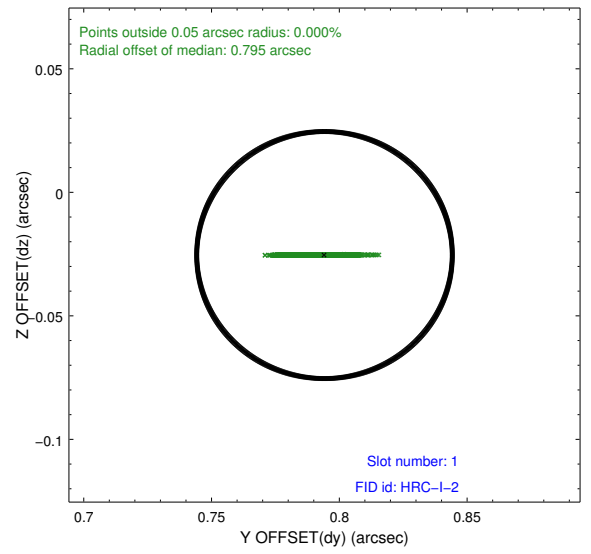
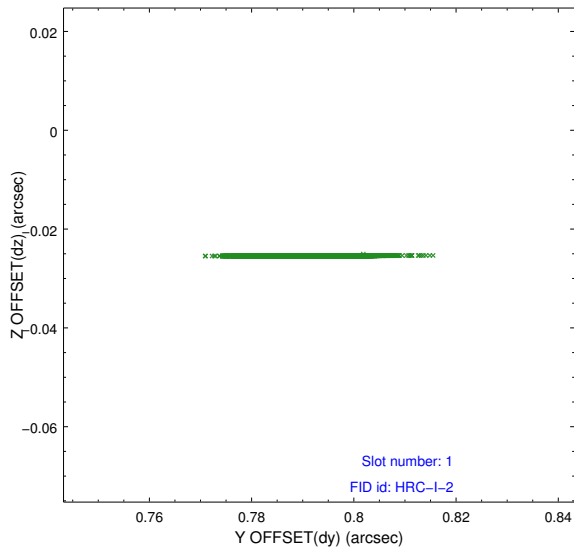


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.692002595723

A.2 Comments

Window constraint met.

=====

This observation was performed with a large SIM offset, per PI request. As a result, the fid light positions are offset beyond normally expected ranges, but the fid light position correction has compensated for this offset.

=====

The fidlight in slot 2 was not utilized for this observation.

=====

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.