

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15405 - L2 Version 2
Chandra X-Ray Center

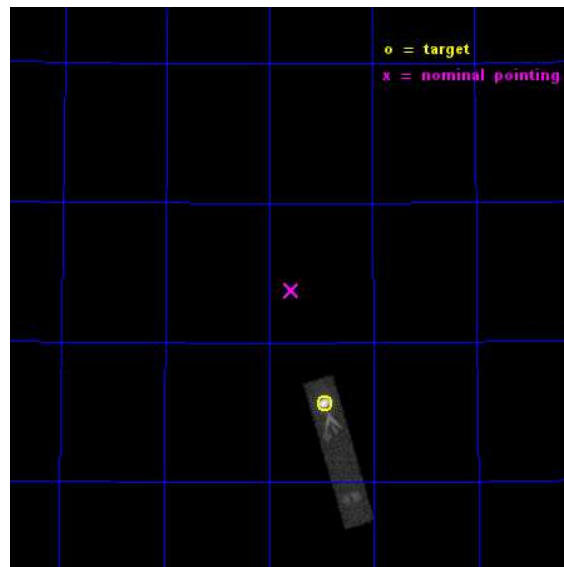
L2 Processing Date : Dec 1 2014

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1 Front

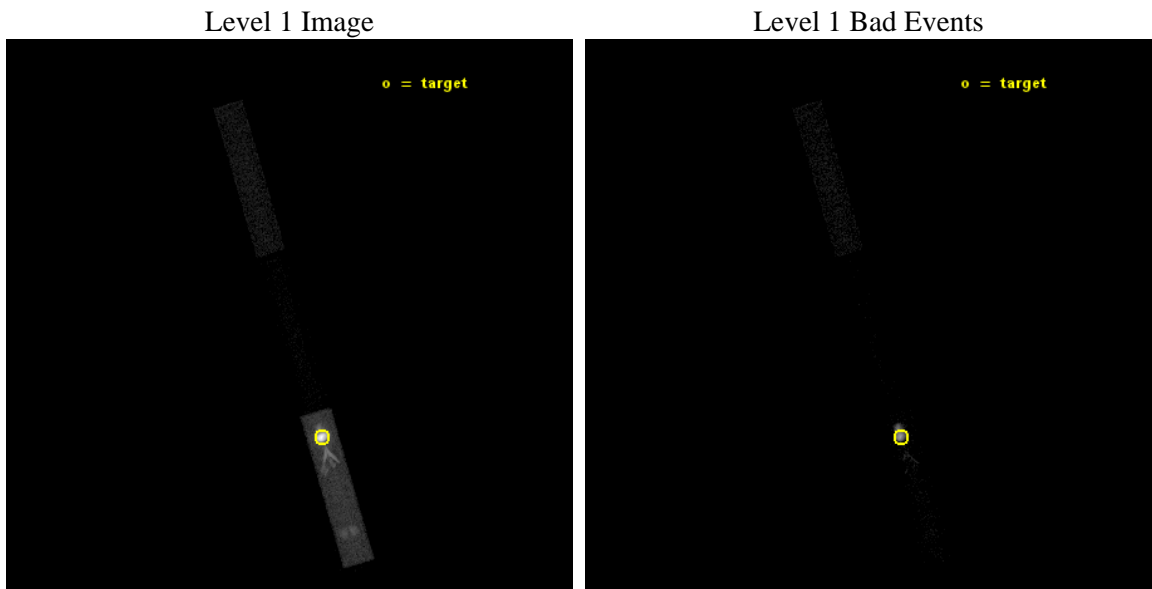
seq_num	291084	Sequence number
obs_id	15405	Observation id
title	AO-14 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.39288726242	Nominal RA [deg]
dec_nom	39.187903306385	Nominal Dec [deg]
roll_nom	73.216257731135	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1181.8250640035	[s]
liveltime	461.03955286855	Ontime multiplied by DTCOR
l2events	211045	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1181.8250640035	[s]
caldbver	4.6.4	 	l1events	268728	Number of level 1 events
date	2014-12-02T02:01:22	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

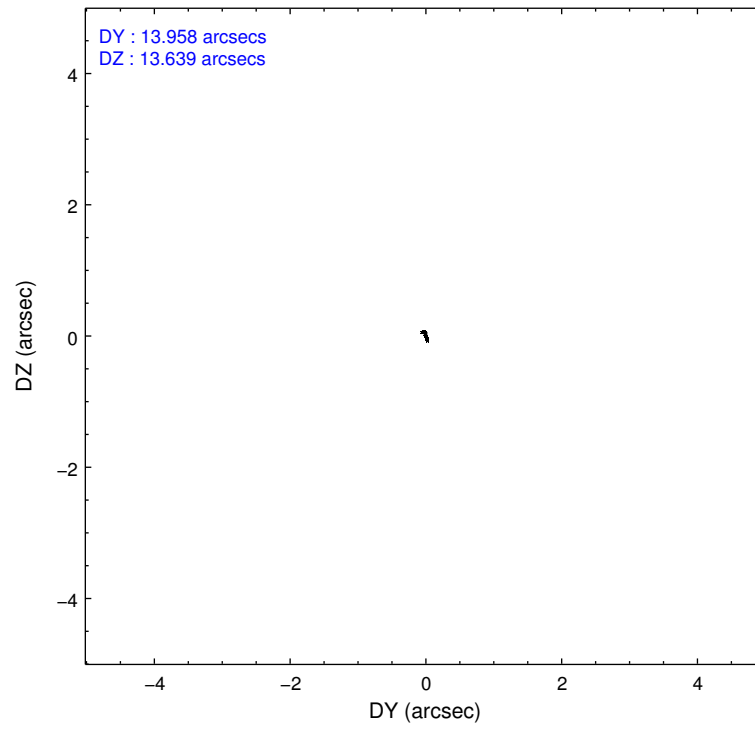
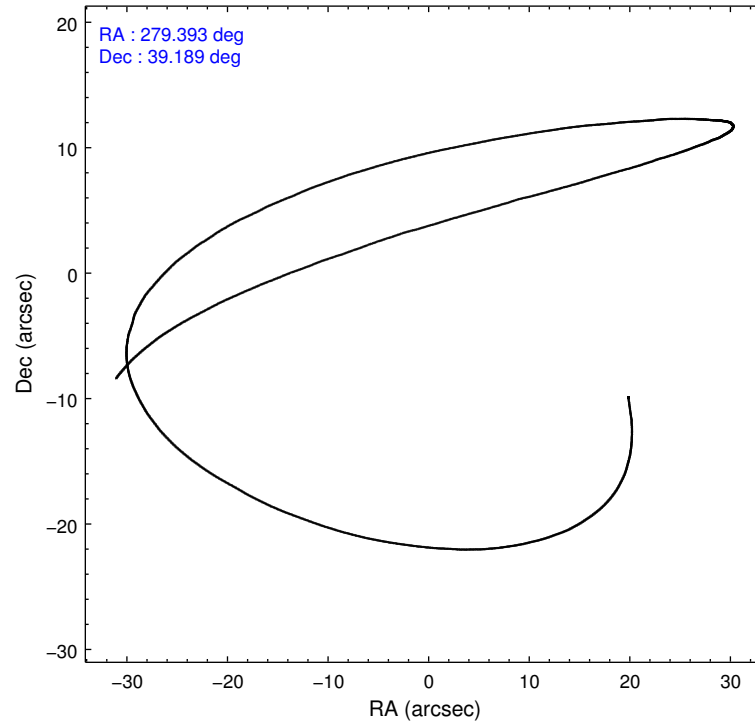
Level 1 Events

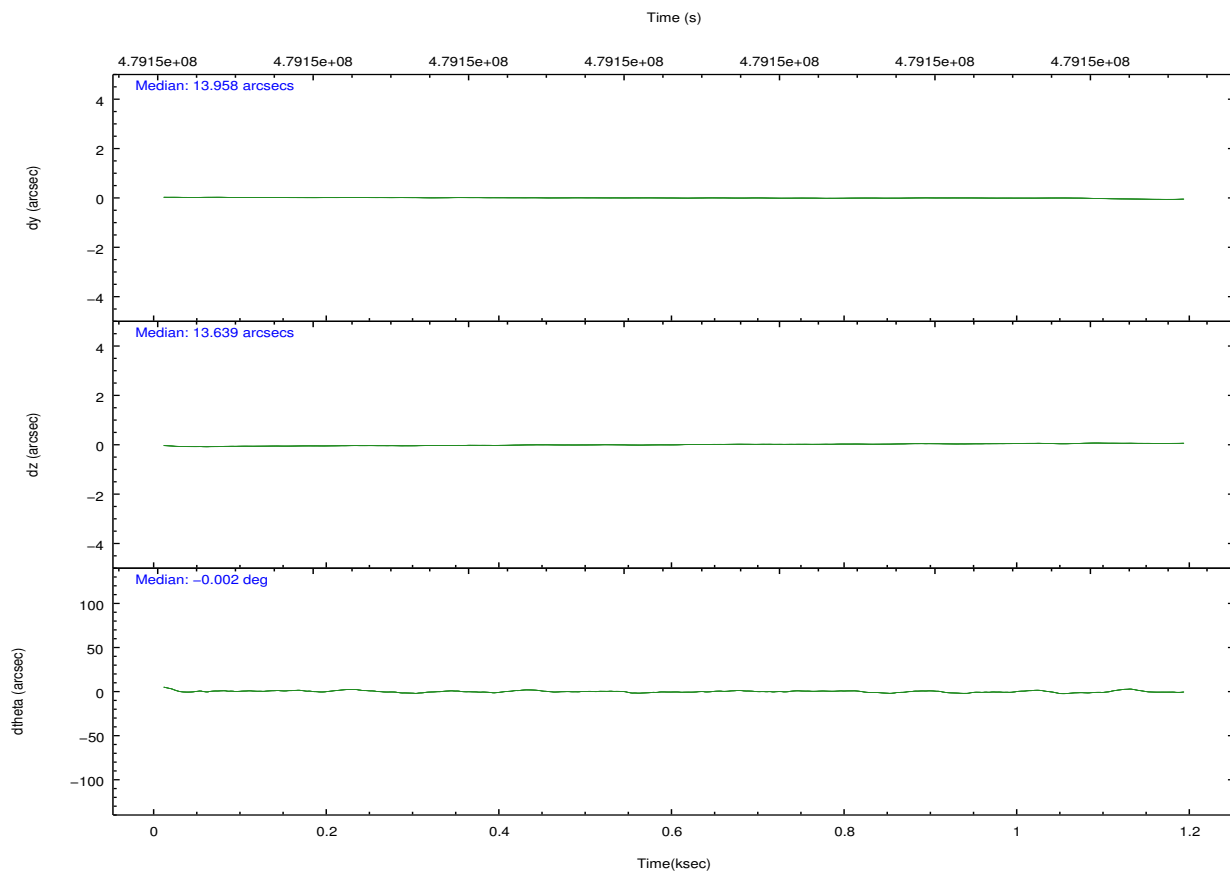
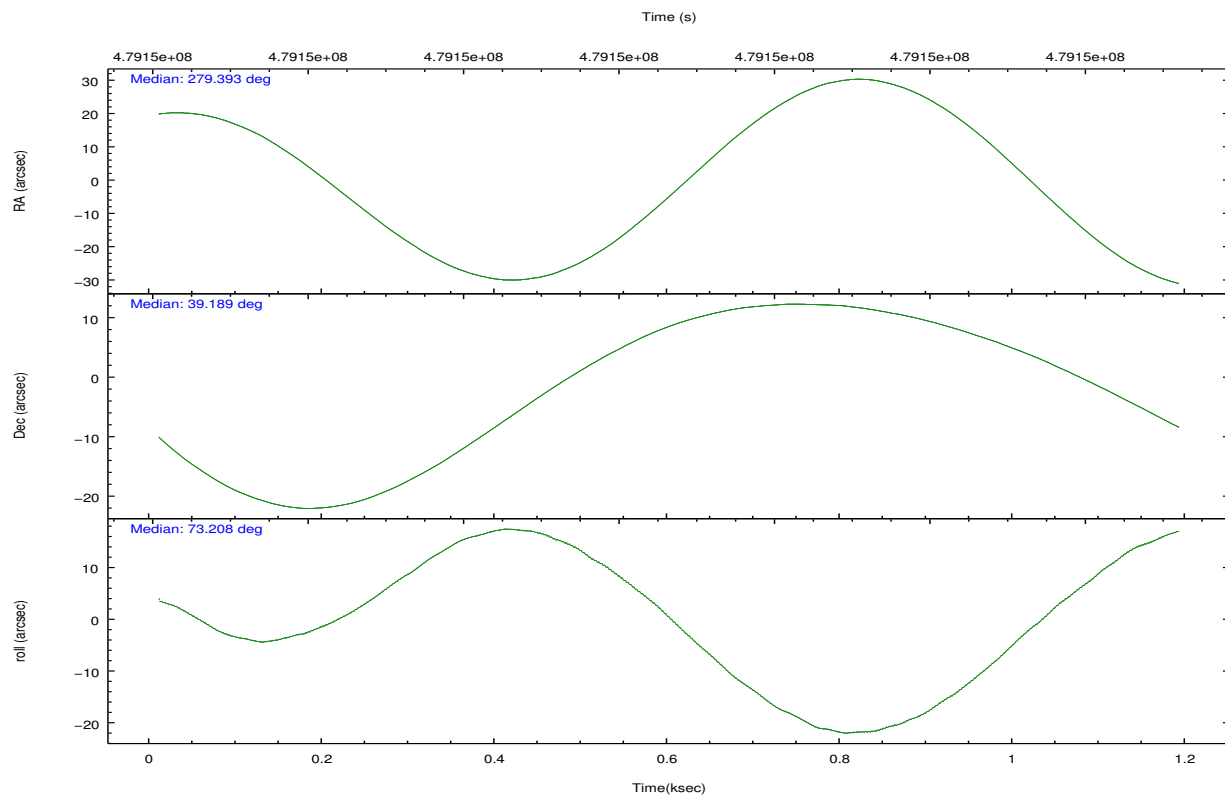
	segment 1	segment 2	segment 3
level 1 events	263328	339	5061
rejected events	45425	328	5061
rejected %	17%	96%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	279.402886	279.3928872624163			
[deg] Pointing Dec	39.160586	39.18790330638542			
[deg] Pointing Roll	73.142546	73.2162577311349			
[s] Window start time (MET)	478483267.184000	478483267.184000			
[s] Window stop time (MET)	483667267.184000	483667267.184000			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	479148065.184000	479147689.0399			
Observation start date	2013-03-08T16:39:58	2013-03-08T16:34:49			
[s] Observation end time (MET)	479149065.184000	479149199.37748			
Observation end date	2013-03-08T16:56:38	2013-03-08T16:59:59			

2.3 Aspect



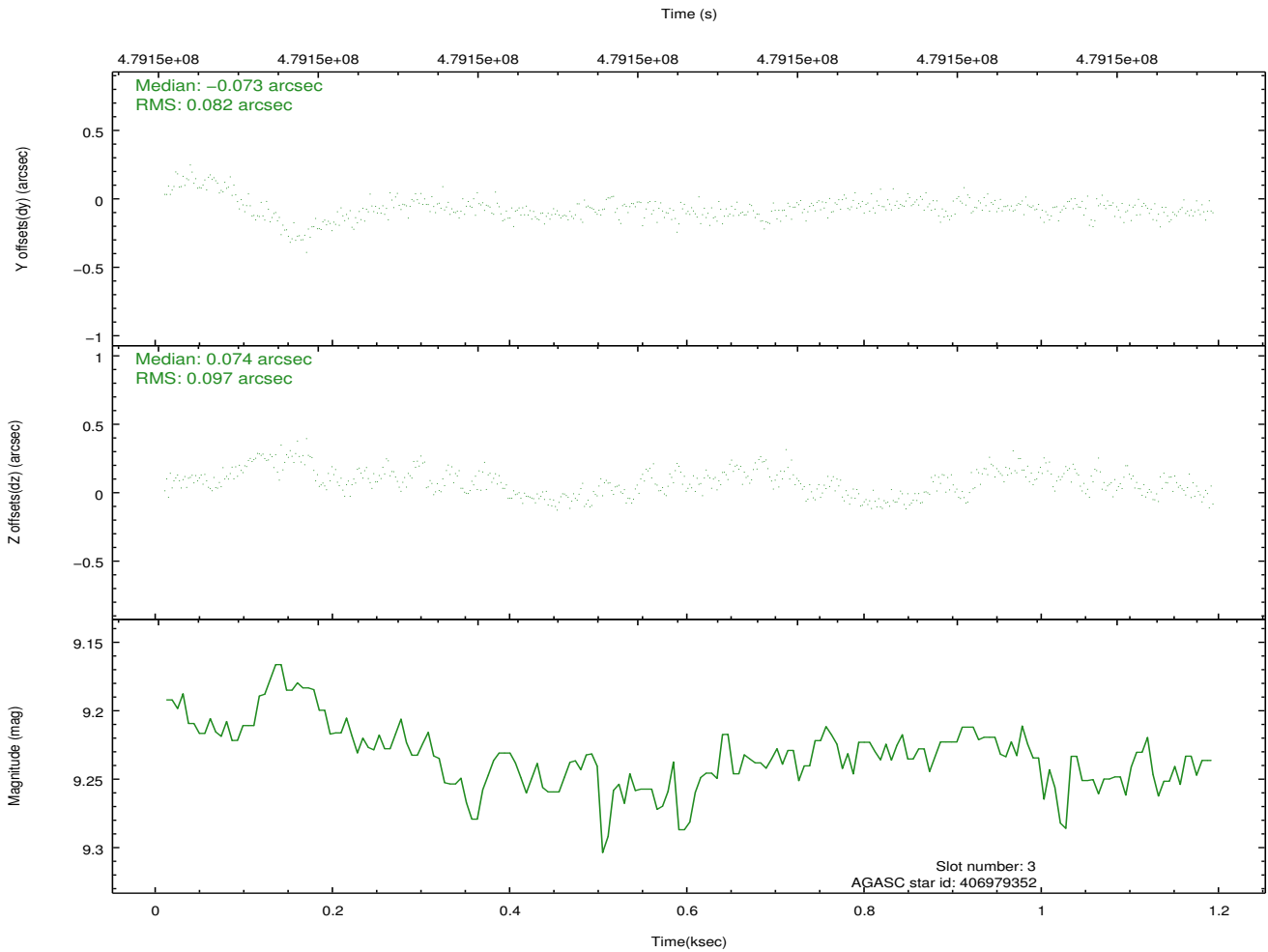
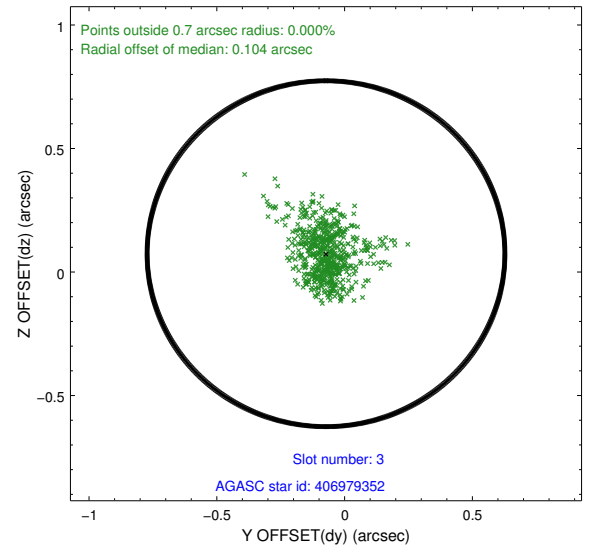
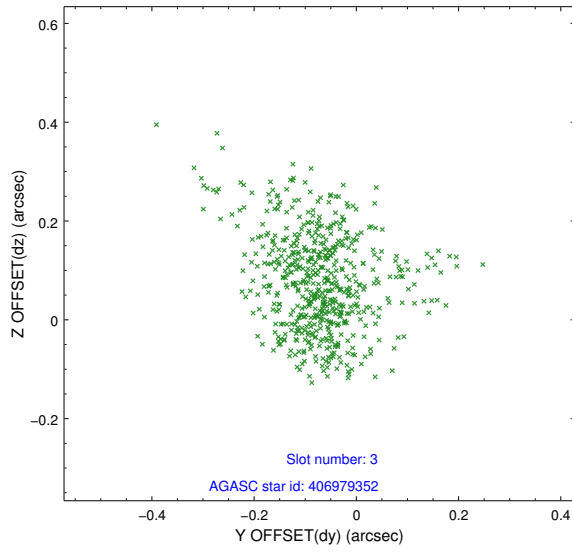


Slot Statistics

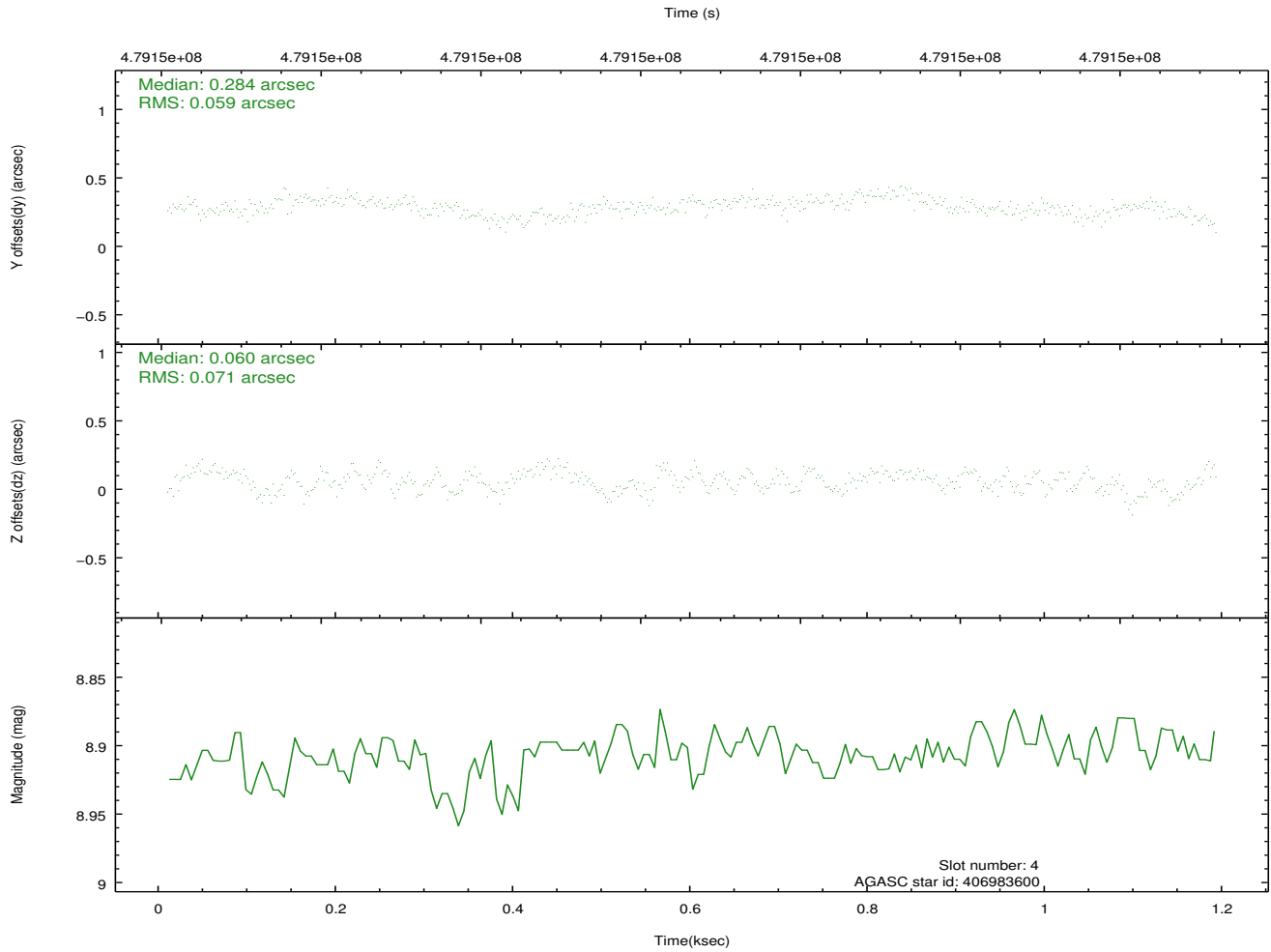
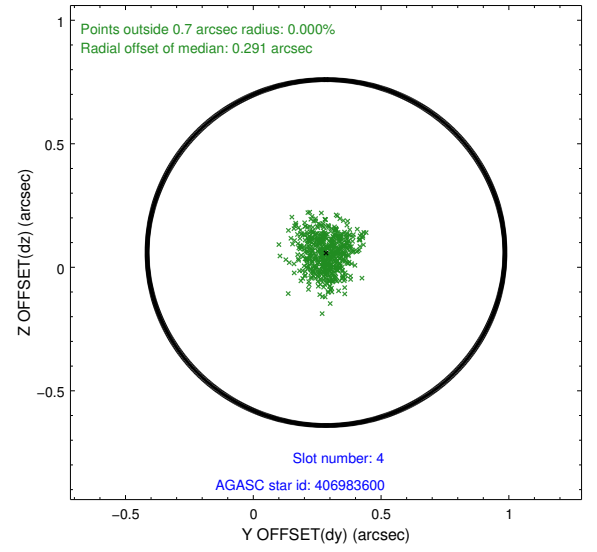
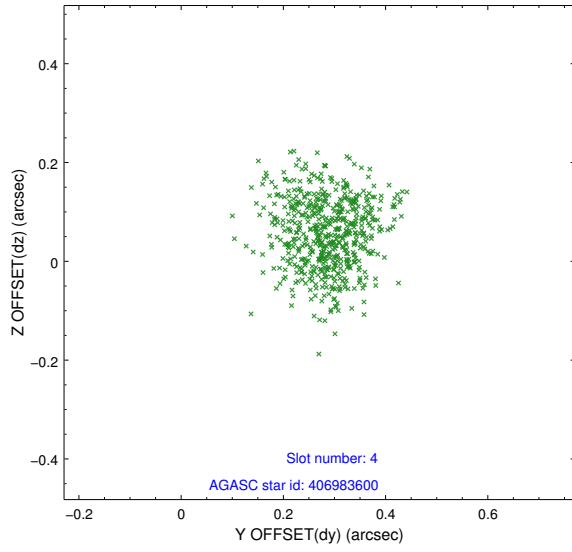
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.00	289	0.053	-0.196	0.006	0.010	0.000000	0.000000	-1168.36	-462.46
1	FID		HRC-S-3	7.00	289	0.056	-0.034	0.007	0.013	0.000000	0.000000	-1175.10	565.62
2	FID		HRC-S-4	6.94	289	0.278	-0.067	0.005	0.009	0.000000	0.000000	1226.06	571.66
3	GUIDE	used	406979352	9.23	578	-0.073	0.074	0.131	0.225	279.968297	39.230258	701.20	-1434.36
4	GUIDE	used	406983600	8.91	578	0.284	0.060	0.098	0.158	279.940957	39.020708	-39.30	-1587.73
5	GUIDE	used	407510432	8.13	578	-0.010	-0.285	0.097	0.146	278.762778	39.530640	766.12	2087.38
6	GUIDE	used	407513096	8.14	578	-0.249	0.120	0.063	0.095	279.928965	39.436841	1382.20	-1105.11
7	GUIDE	used	406985120	7.42	577	0.037	0.030	0.089	0.162	278.839732	38.894839	-1365.33	1233.21

2.4 Star Slots

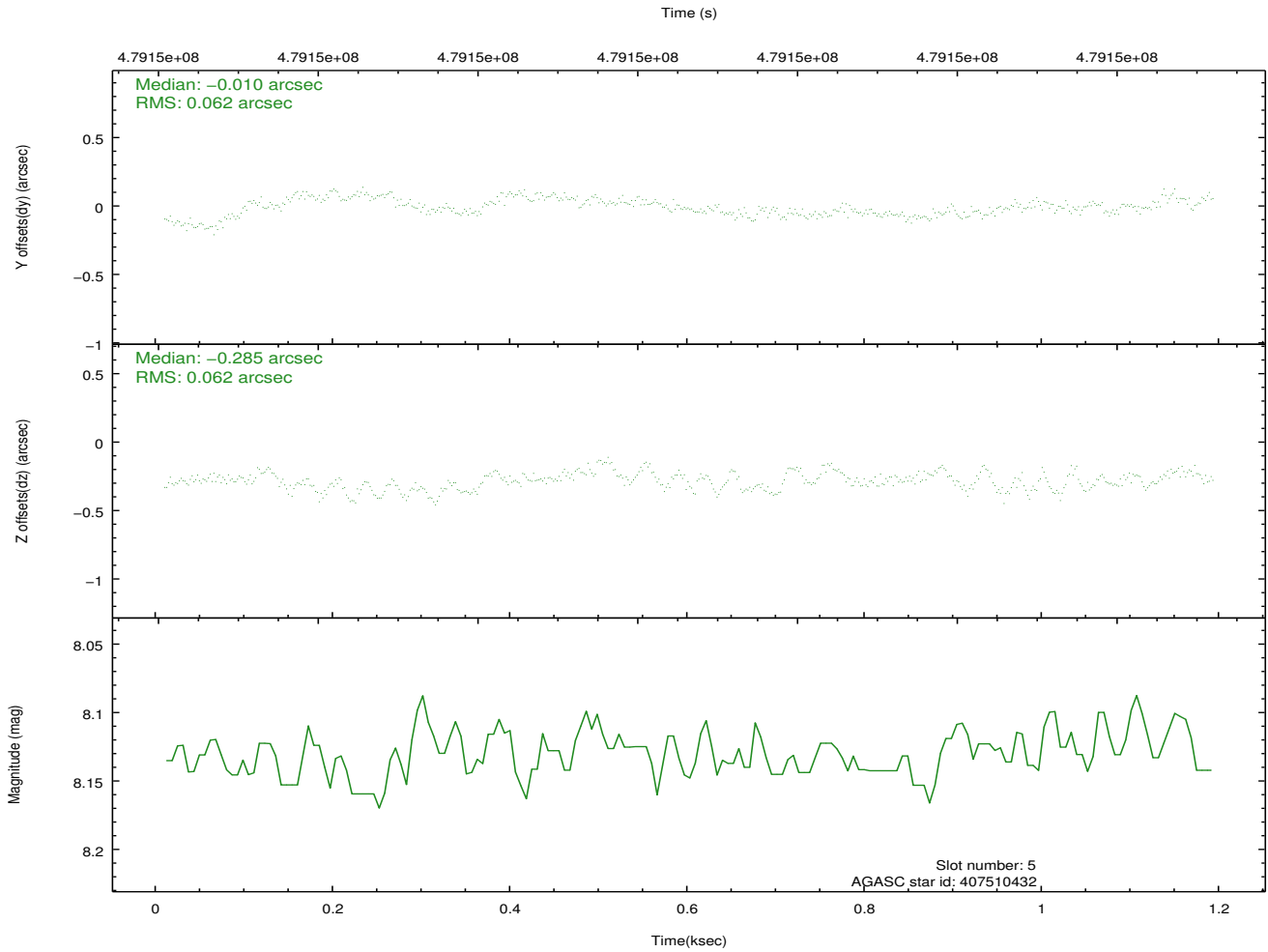
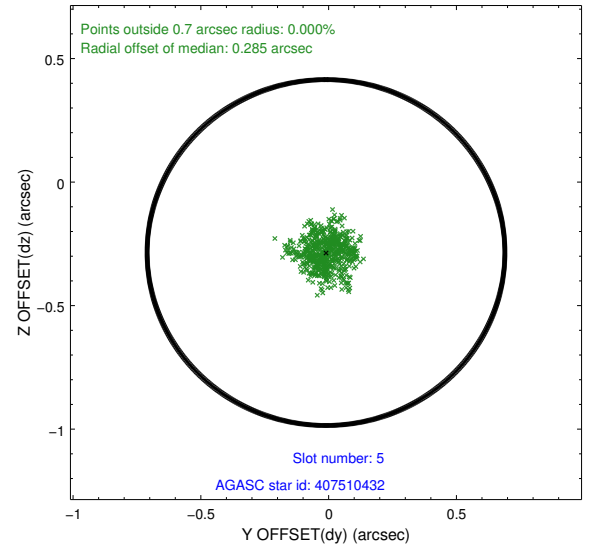
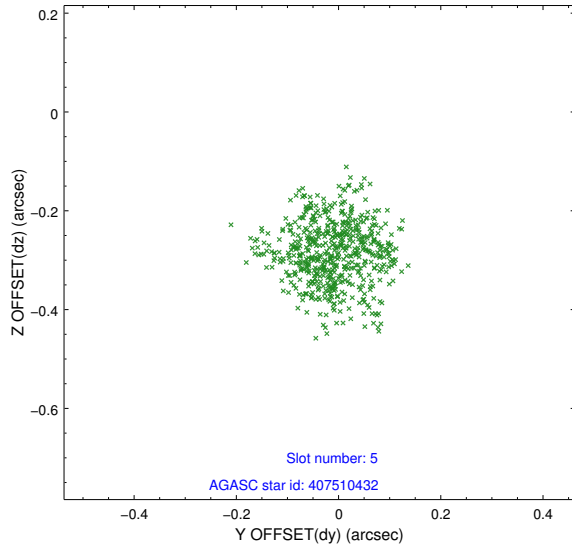
2.4.1 Slot 3



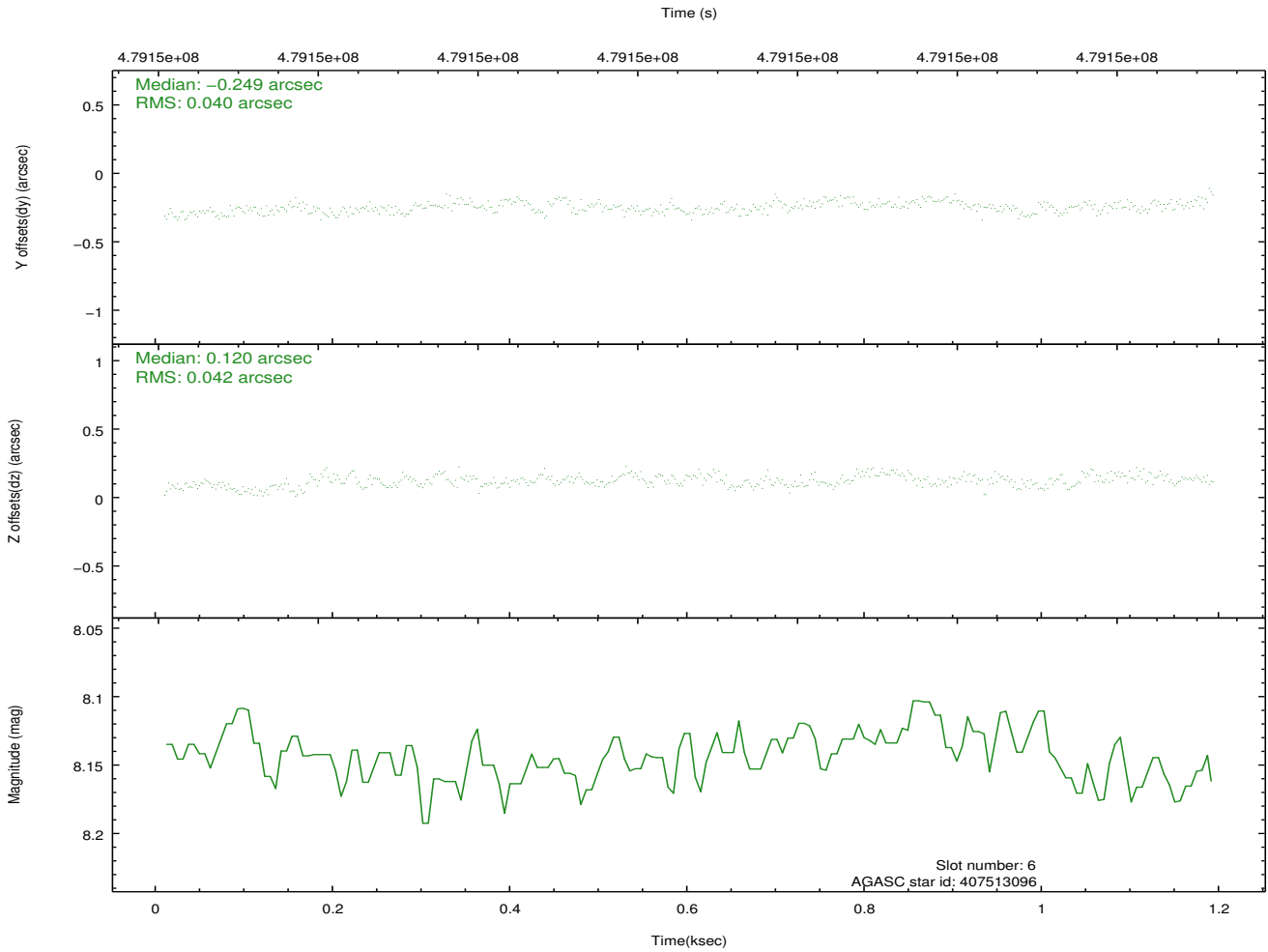
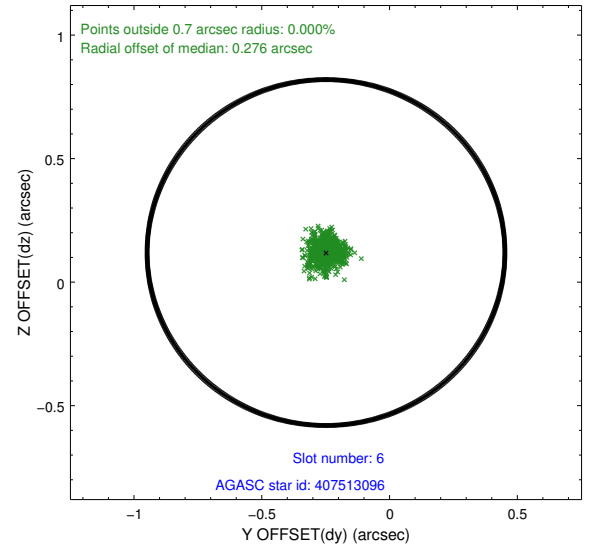
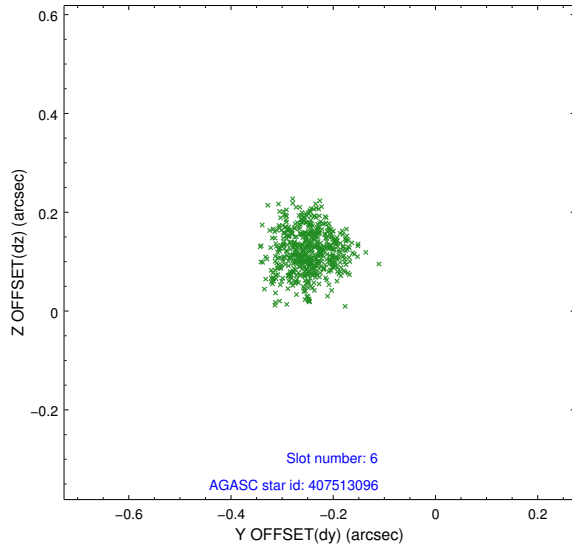
2.4.2 Slot 4



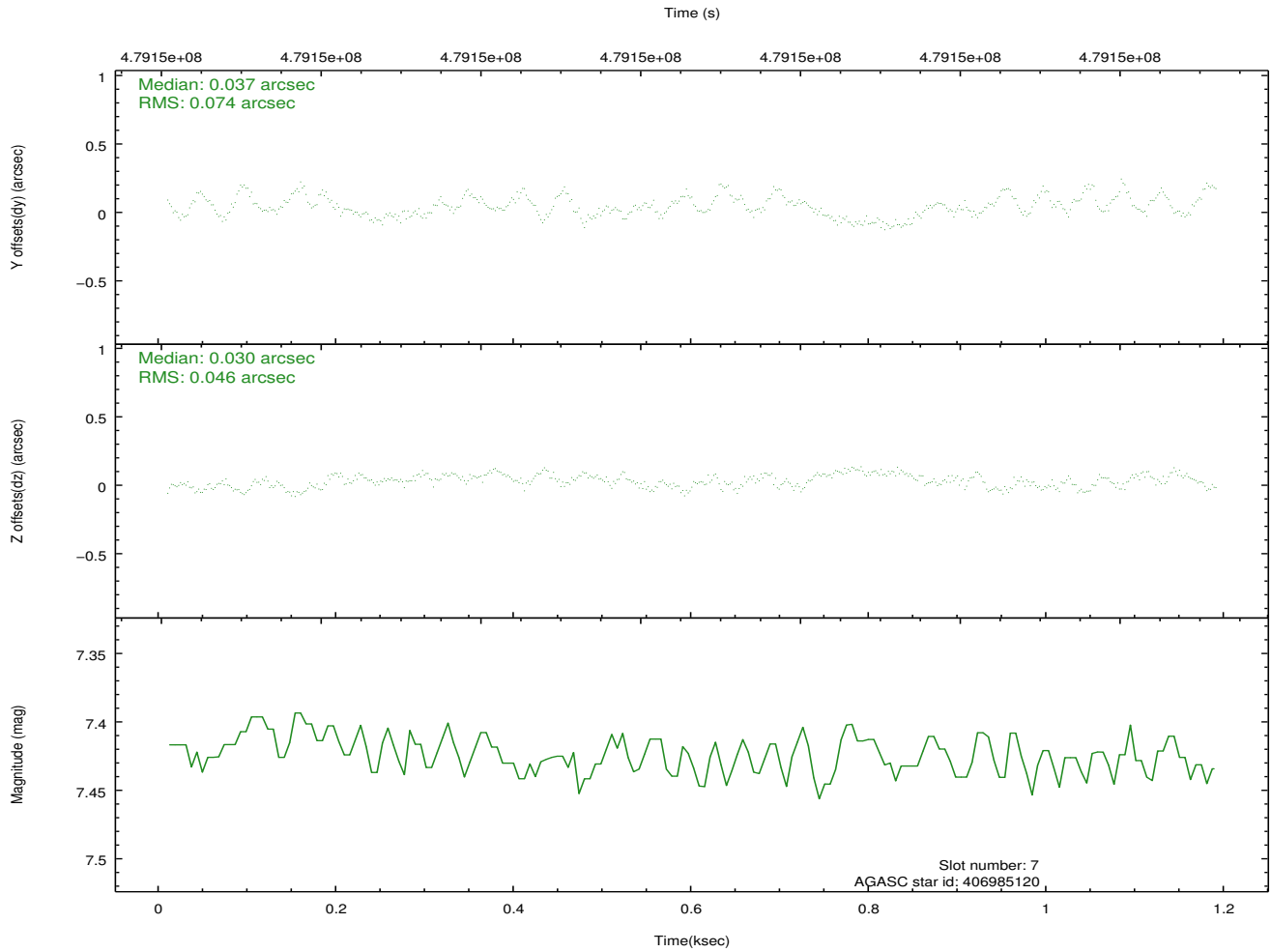
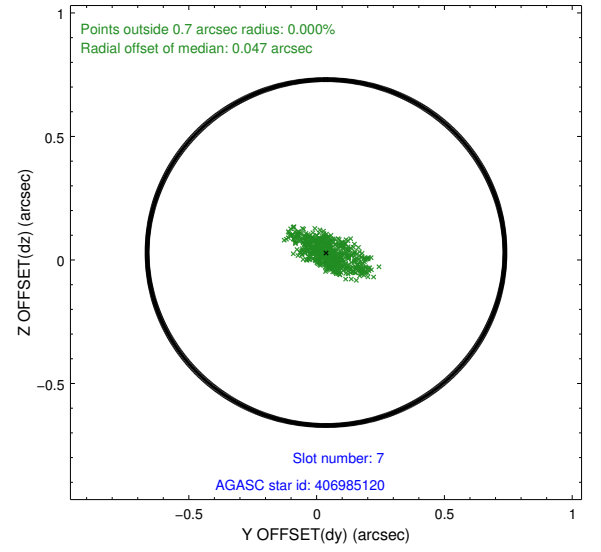
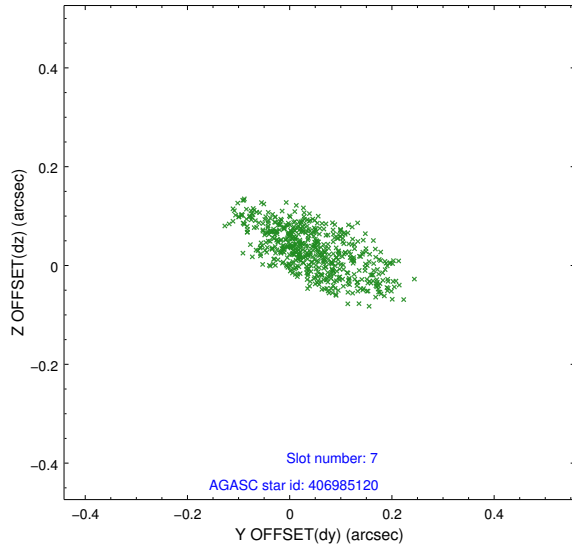
2.4.3 Slot 5



2.4.4 Slot 6

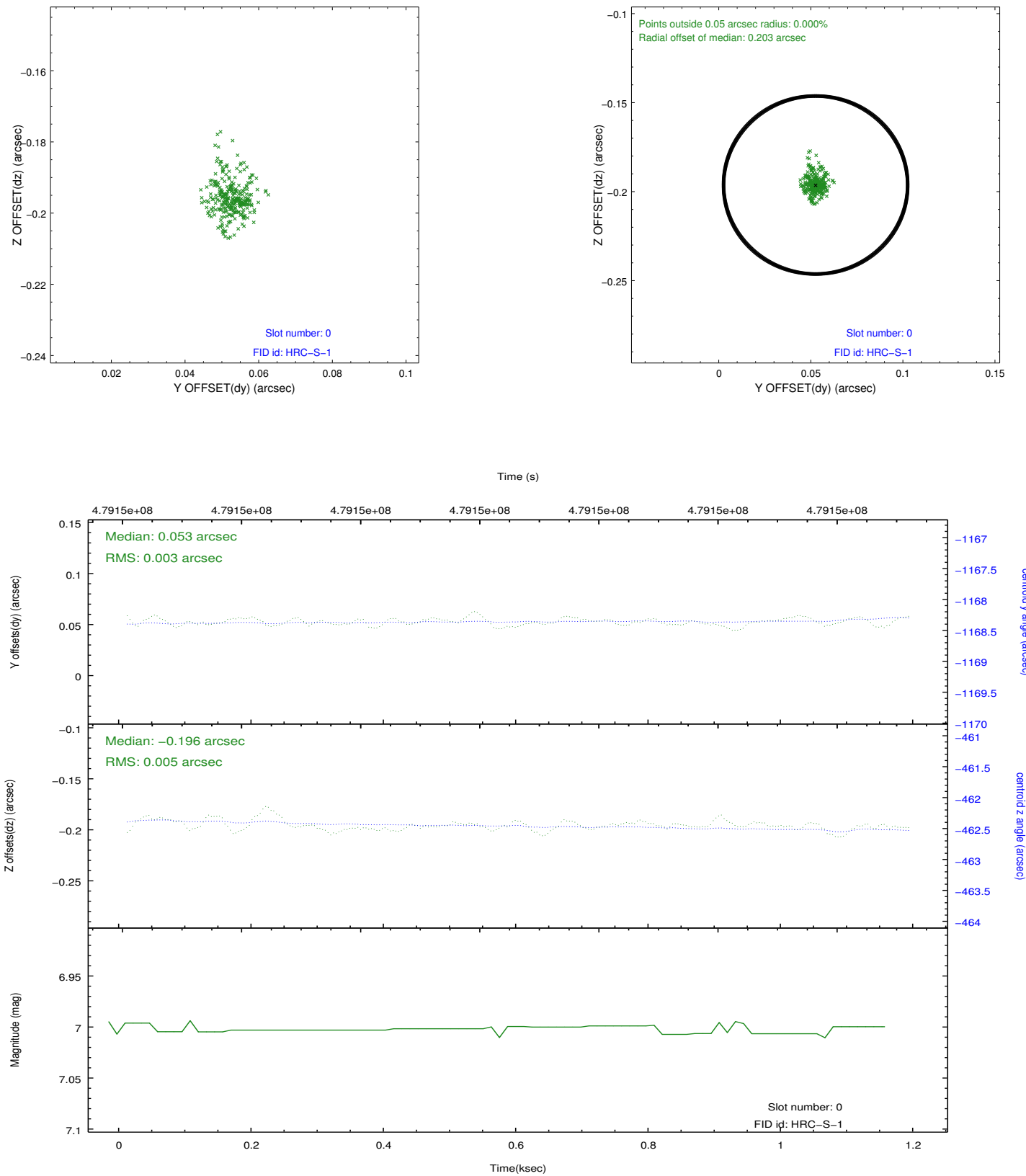


2.4.5 Slot 7

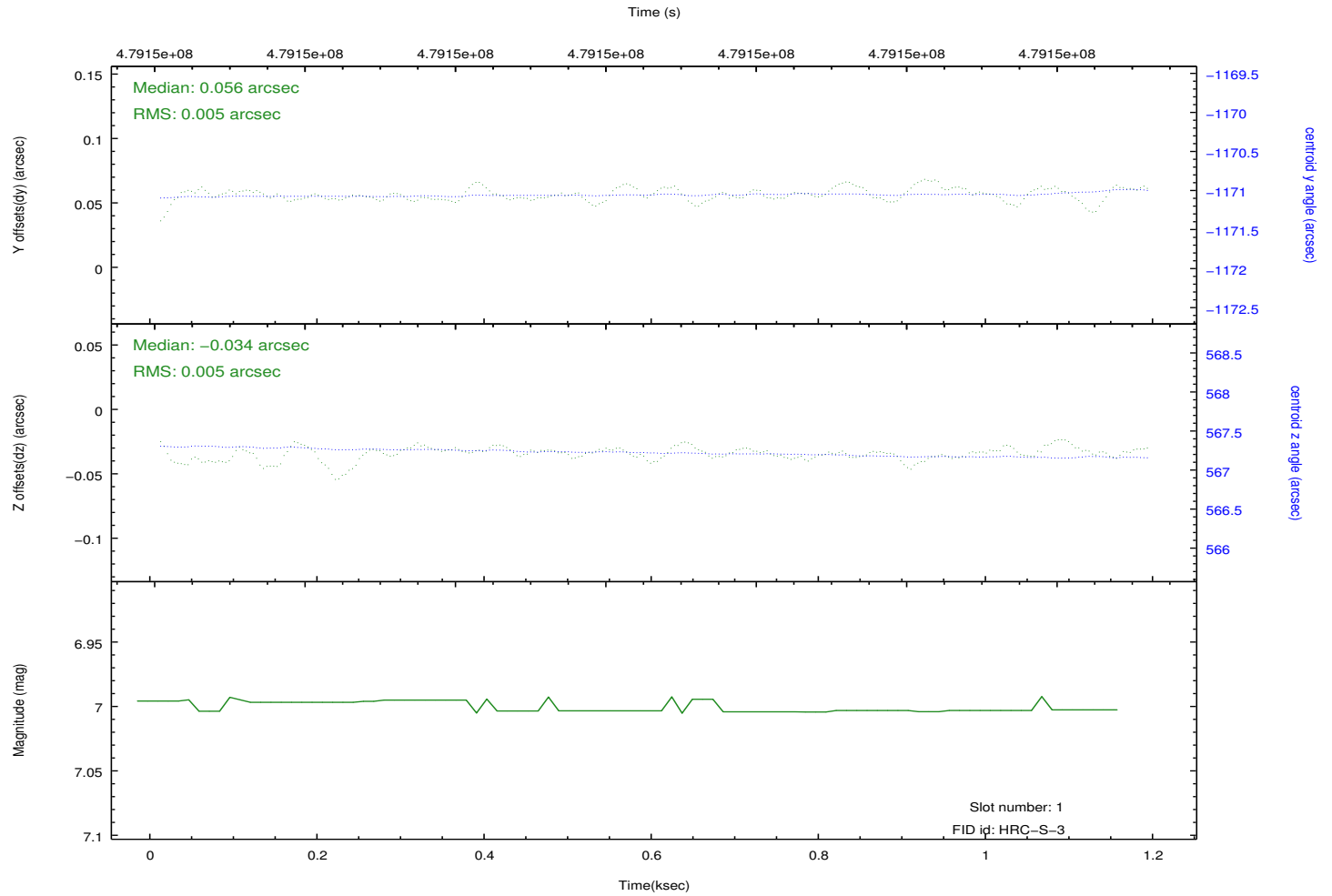
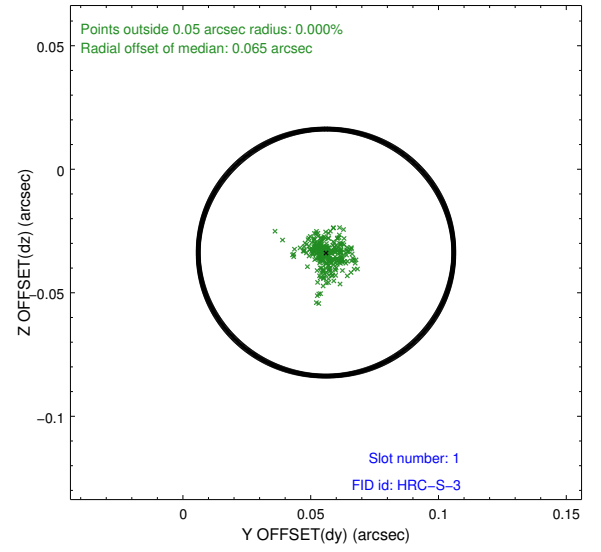
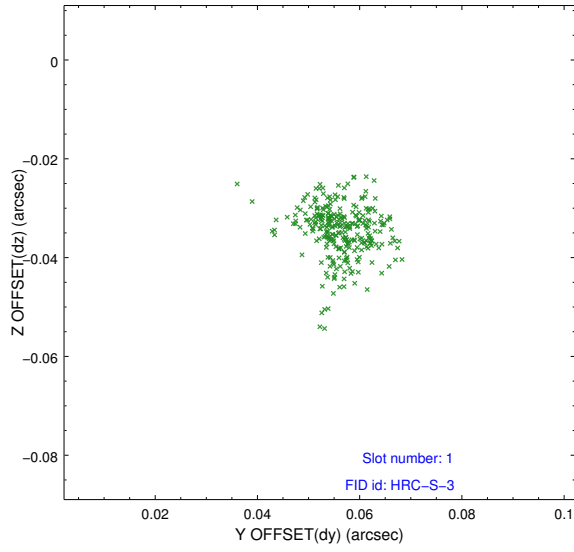


2.5 FID Slots

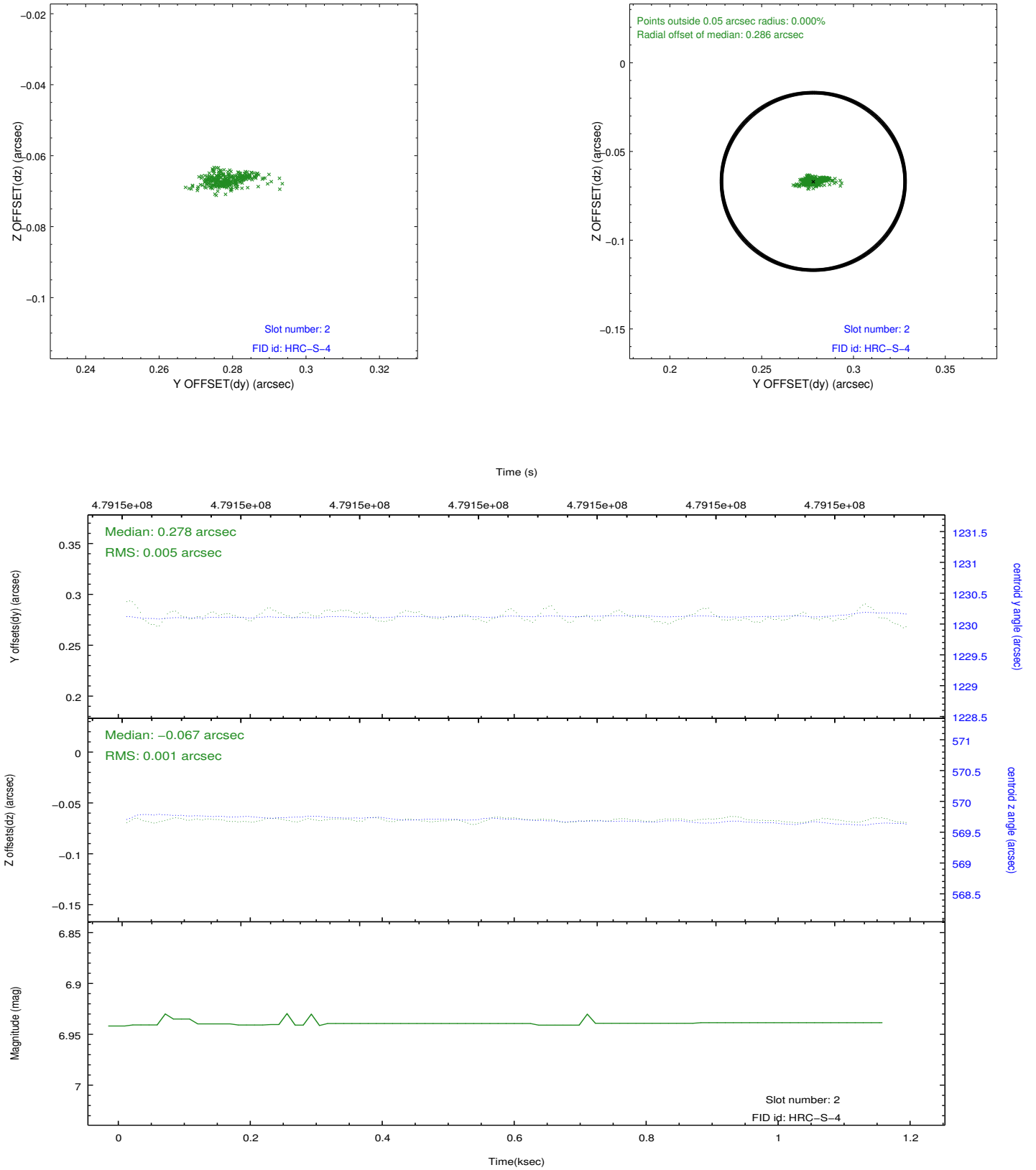
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1818250640035

A.2 Comments

Window preference met.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.