

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15630 - L2 Version 2
Chandra X-Ray Center

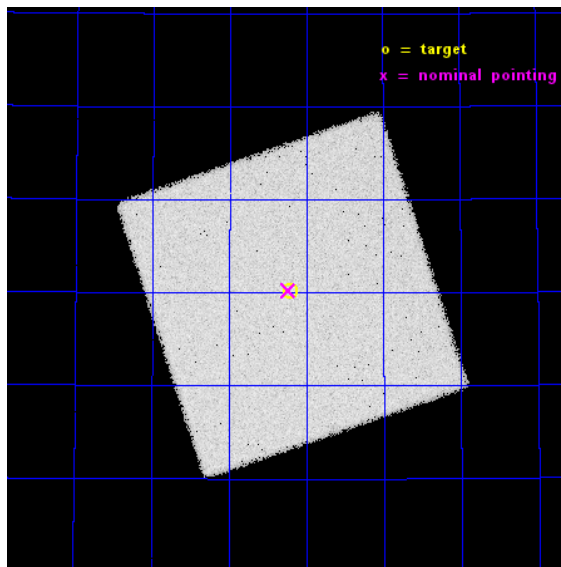
L2 Processing Date : Dec 2 2014

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1 Front

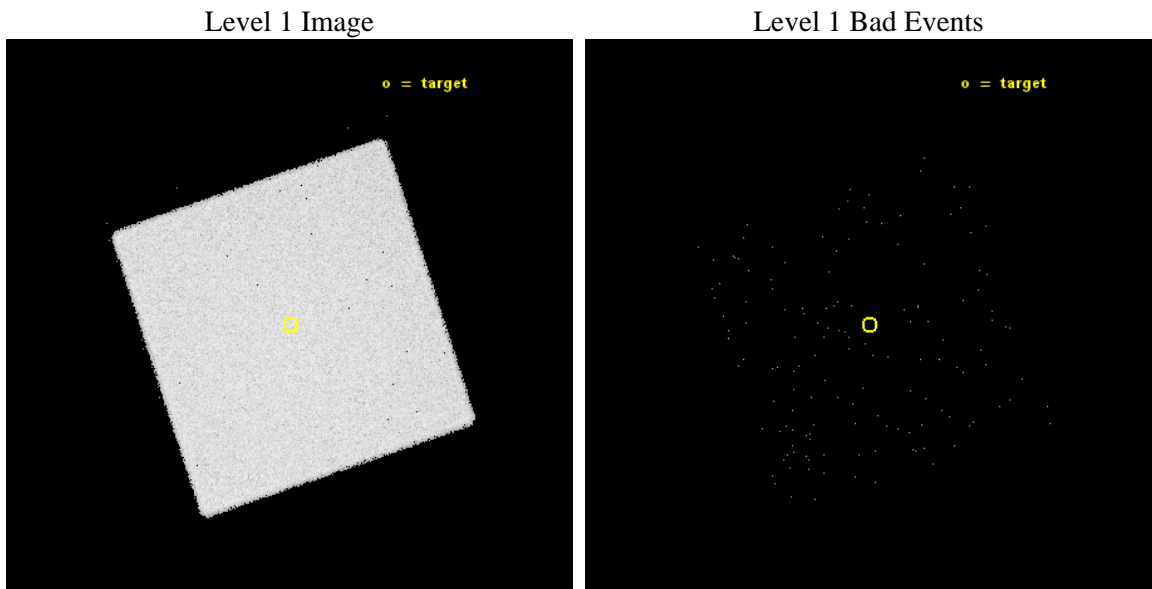
seq_num	100096	Sequence number
obs_id	15630	Observation id
title	High Latitude Charge Exchange X-rays from Comet PANSTARRS in the Cold Polar Solar Wind	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet 2011 L4 (PANSTARRS)	Source name
ra_targ	5.8005	Observer's specified target RA [deg]
dec_targ	54.837722	Observer's specified target Dec [deg]
ra_nom	5.8080673085995	Nominal RA [deg]
dec_nom	54.837716557007	Nominal Dec [deg]
roll_nom	26.498164473366	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5189.8315309286	[s]
livetime	5147.3593262563	Ontime multiplied by DTCOR
l2events	319461	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5189.8315309286	[s]
caldbver	4.6.4	 	l1events	443318	Number of level 1 events
date	2014-12-02T18:18:03	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

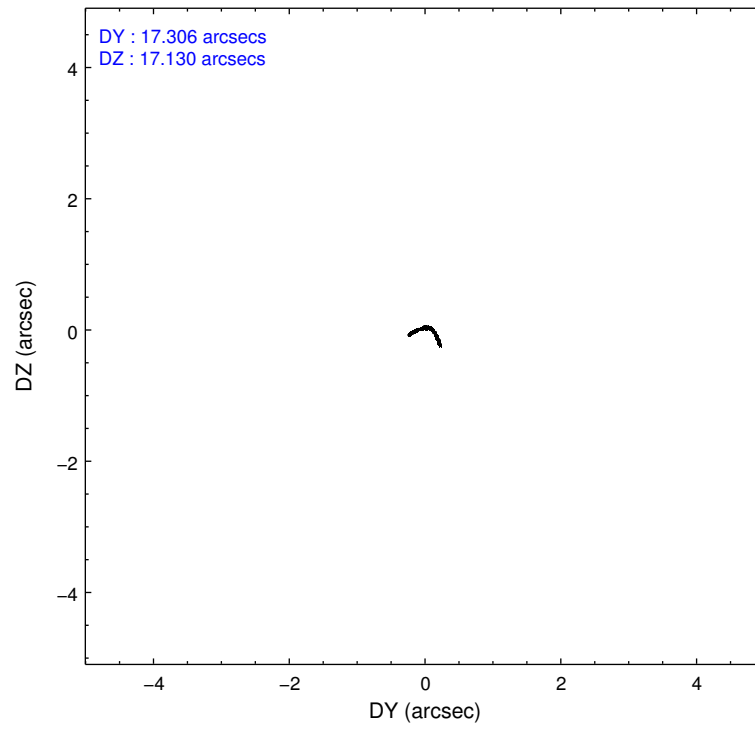
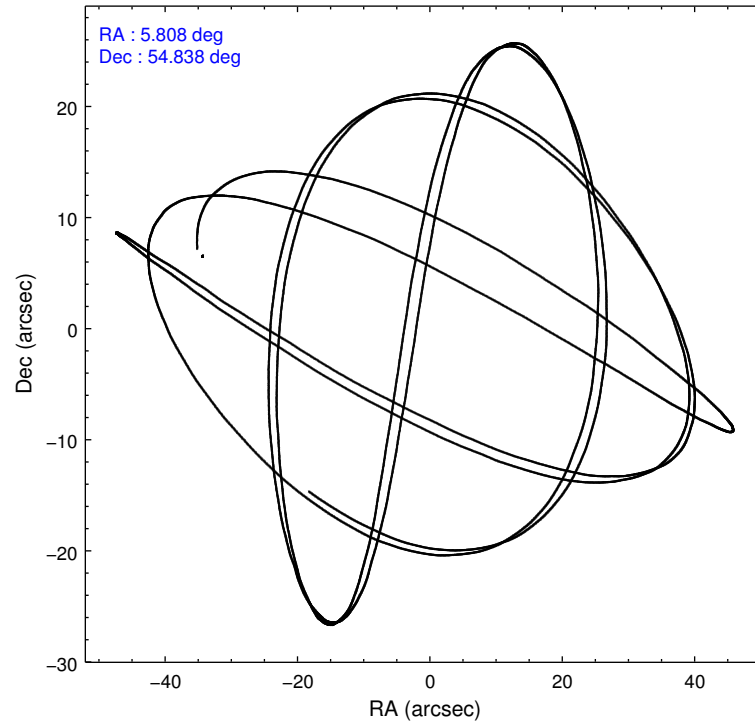
Level 1 Events

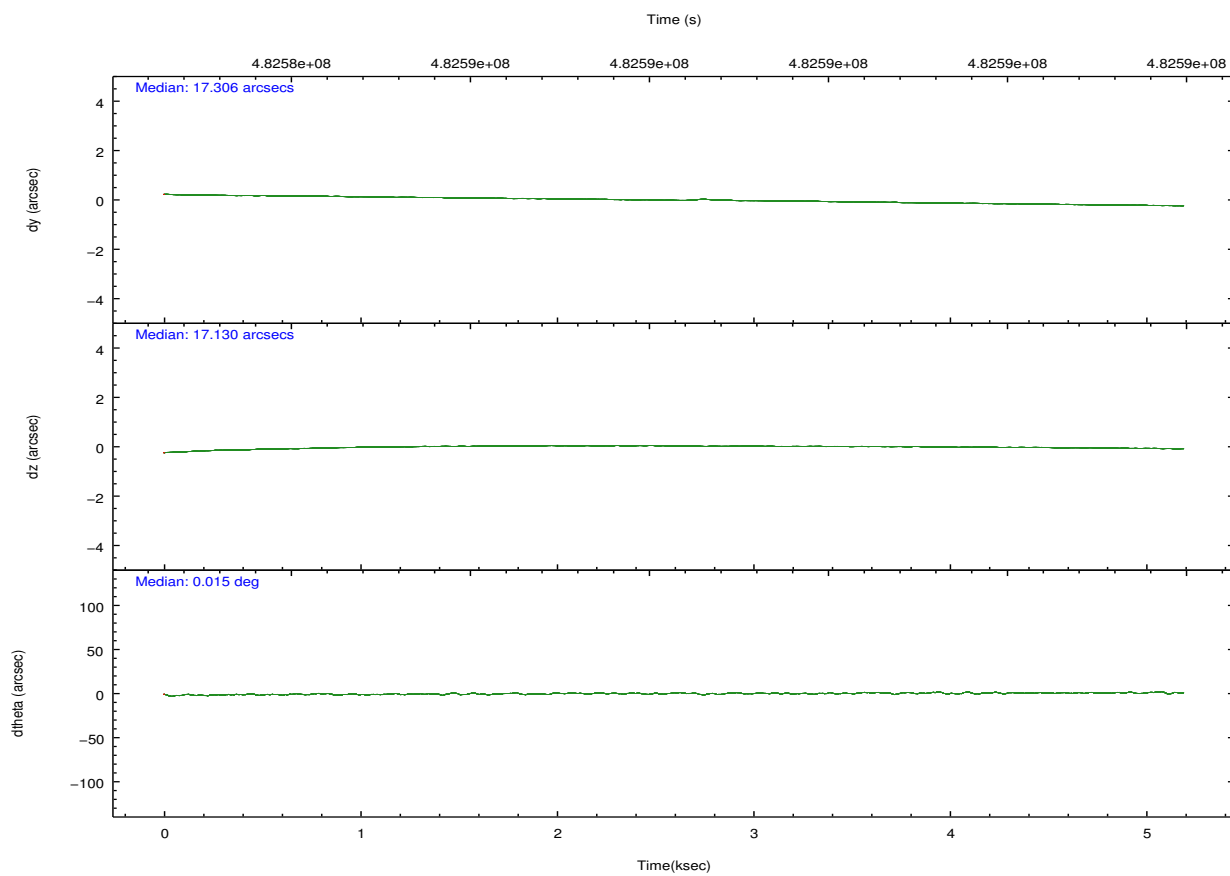
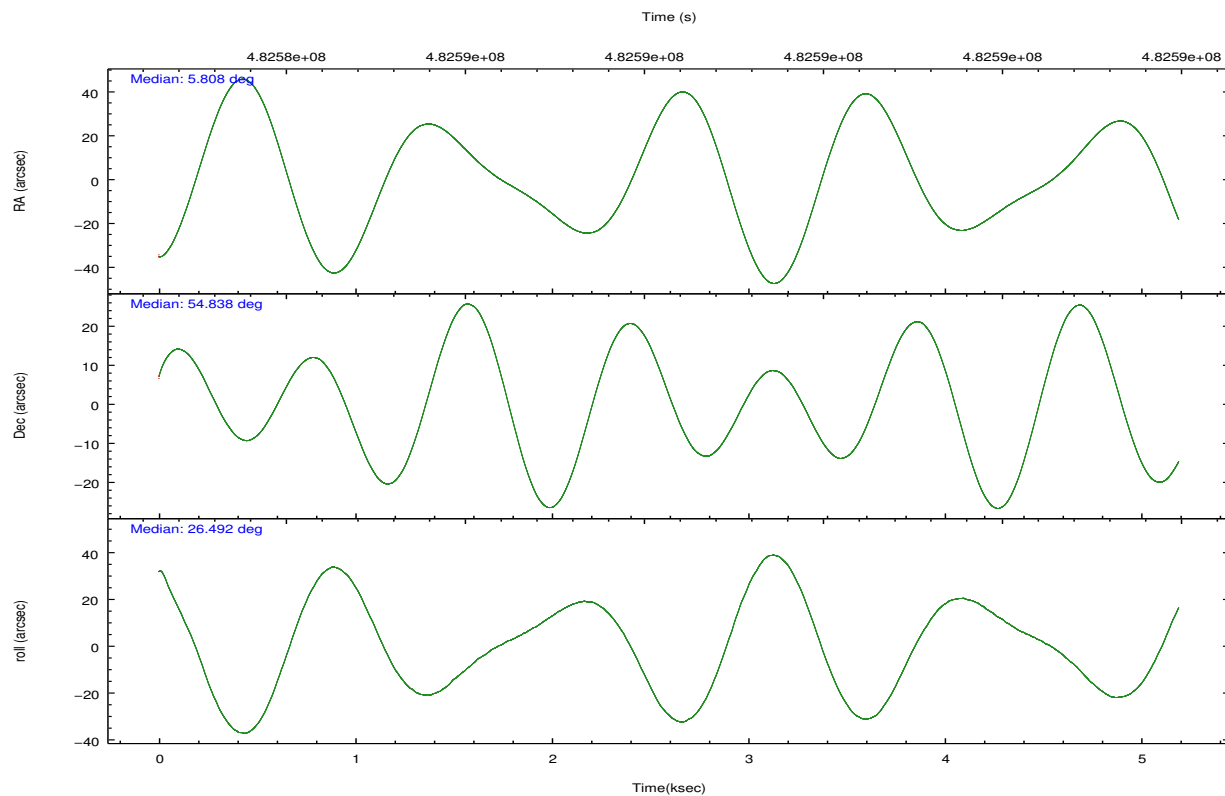
	segment 0
level 1 events	443318
rejected events	7724
rejected %	1%

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	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	5.782498	5.808067308599504			
[deg] Pointing Dec	54.814646	54.83771655700746			
[deg] Pointing Roll	26.614571	26.49816447336583			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	482584731.184000	482584300.51331			
Observation start date	2013-04-17T11:17:44	2013-04-17T11:11:40			
[s] Observation end time (MET)	482589731.184000	482590719.06366			
Observation end date	2013-04-17T12:41:04	2013-04-17T12:58:39			

2.3 Aspect



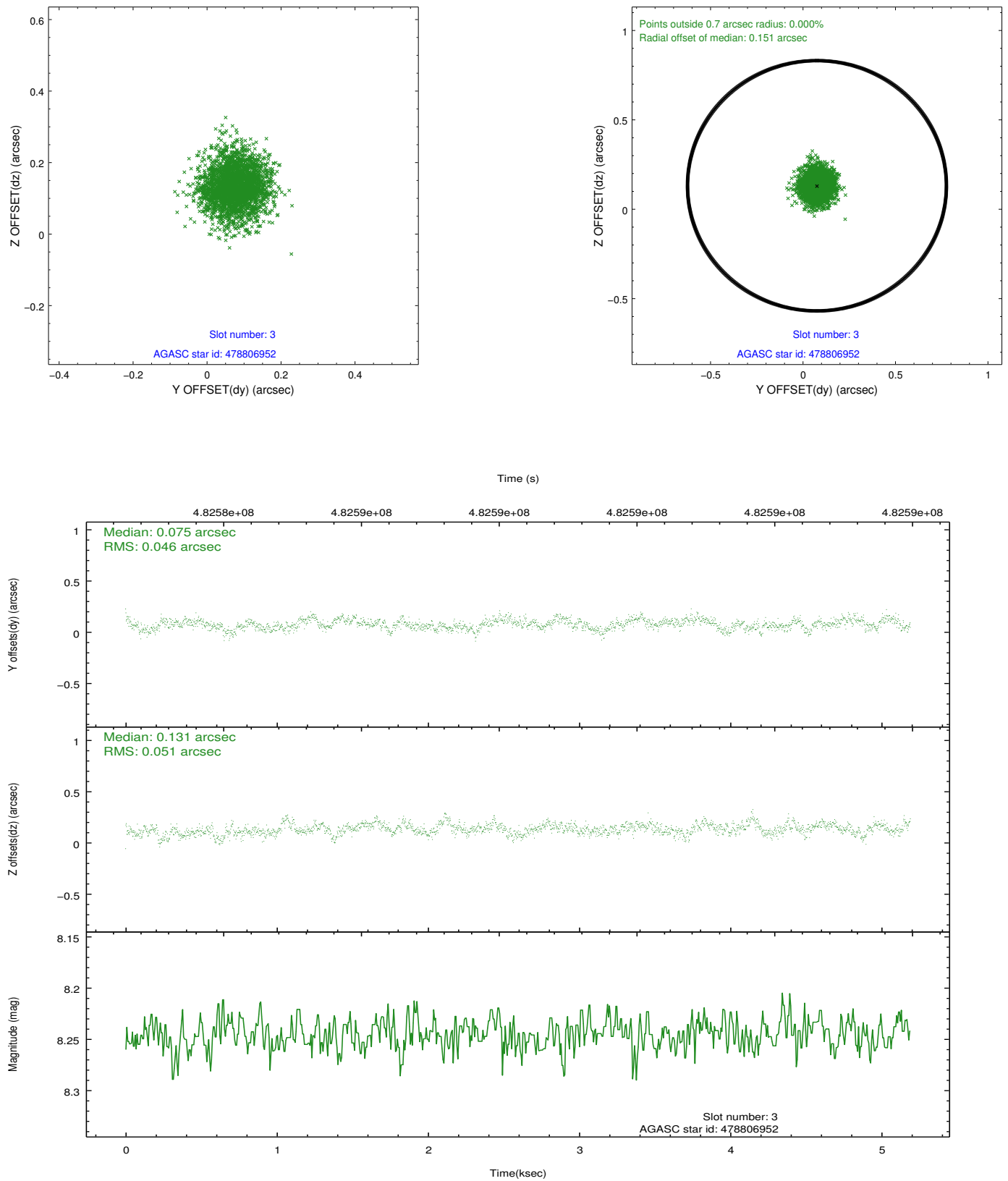


Slot Statistics

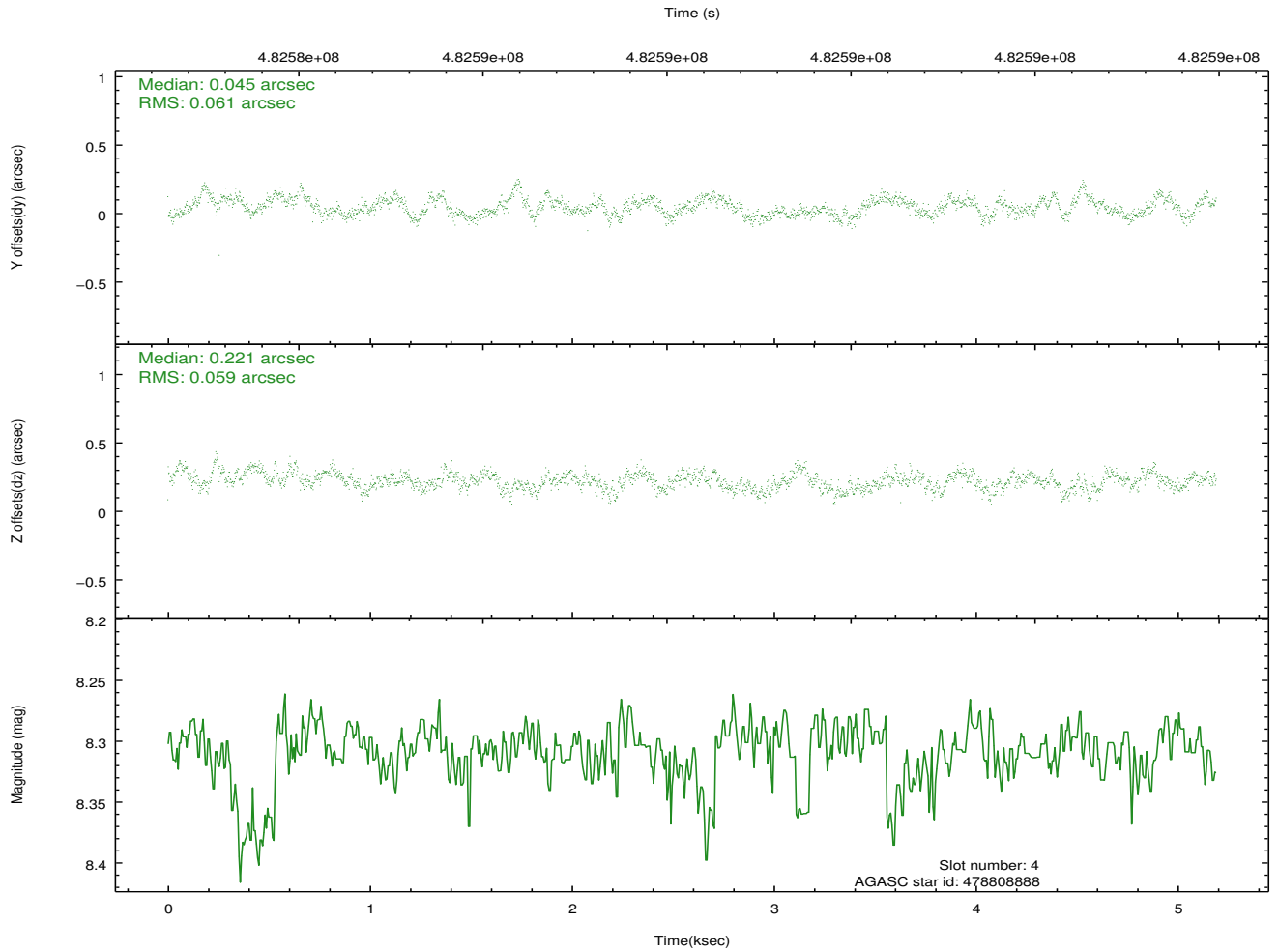
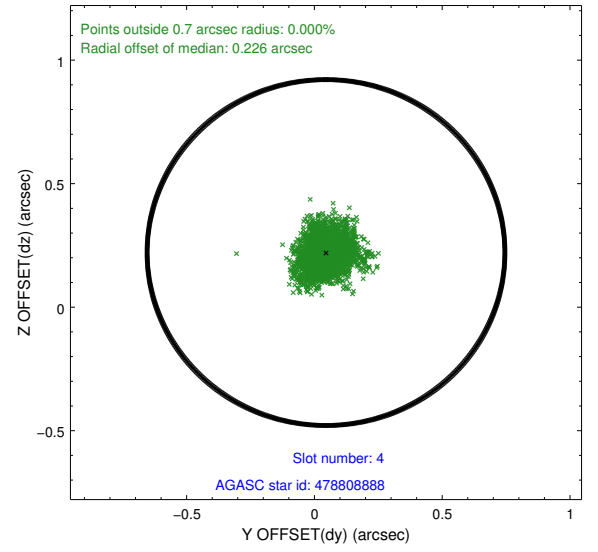
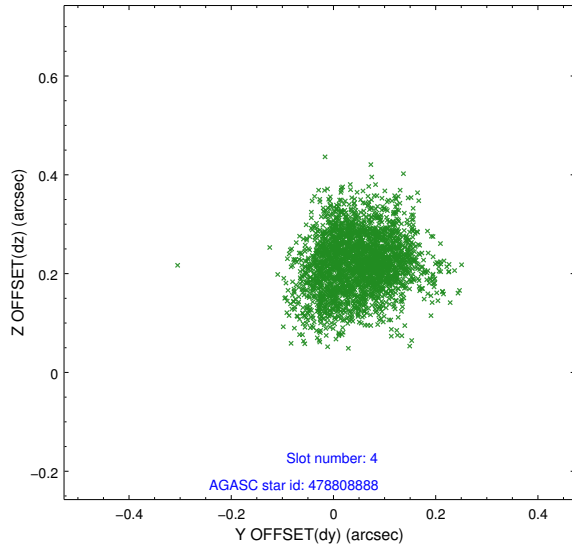
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	1267	-0.168	-0.050	0.006	0.009	0.000000	0.000000	-773.47	-1305.22
1	FID		HRC-I-2	7.06	1267	0.219	-0.096	0.006	0.011	0.000000	0.000000	838.93	-1308.03
2	FID		HRC-I-4	7.04	1267	0.065	0.054	0.005	0.009	0.000000	0.000000	1270.46	995.81
3	GUIDE	used	478806952	8.25	2533	0.075	0.131	0.073	0.118	6.145274	54.293971	-157.65	-2015.02
4	GUIDE	used	478808888	8.31	2525	0.045	0.221	0.090	0.147	5.972847	54.160339	-696.60	-2285.48
5	GUIDE	used	479330808	8.52	2530	-0.170	-0.216	0.074	0.121	6.093028	55.580648	1799.74	2183.10
6	GUIDE	used	479341192	8.72	2532	-0.053	-0.174	0.083	0.135	5.913490	55.389722	1166.81	1732.36
7	GUIDE	used	479343904	7.13	2532	0.095	0.028	0.084	0.135	5.699100	54.645438	-428.34	-465.60

2.4 Star Slots

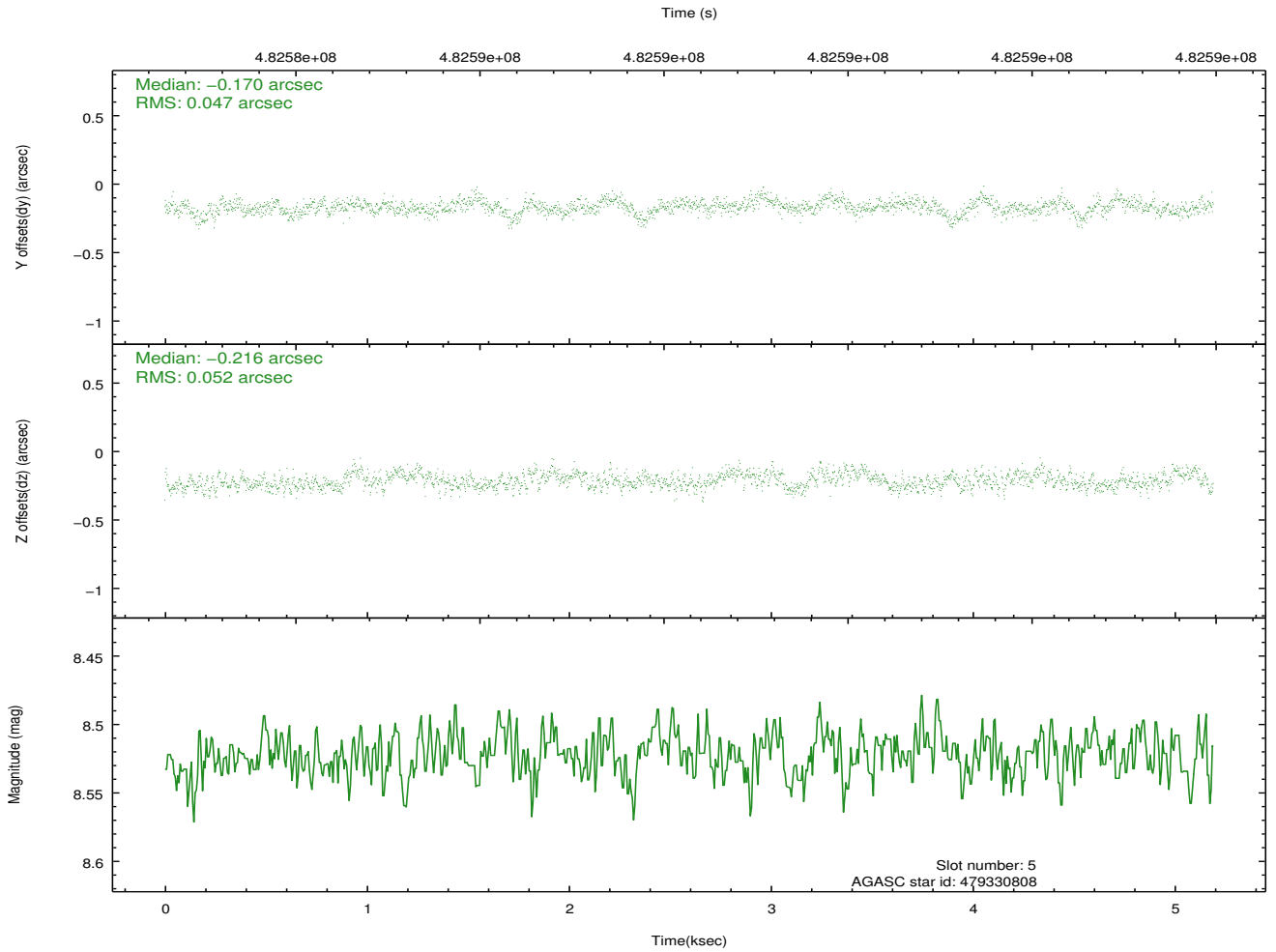
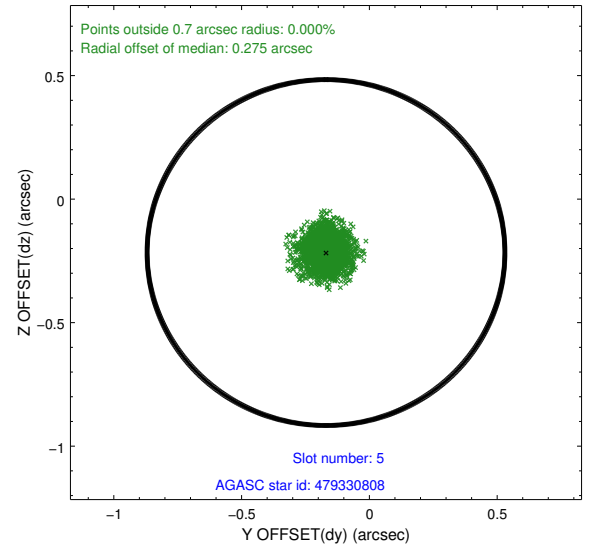
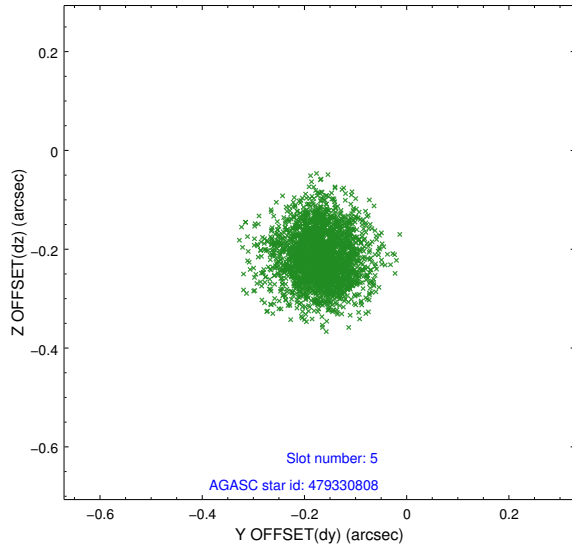
2.4.1 Slot 3



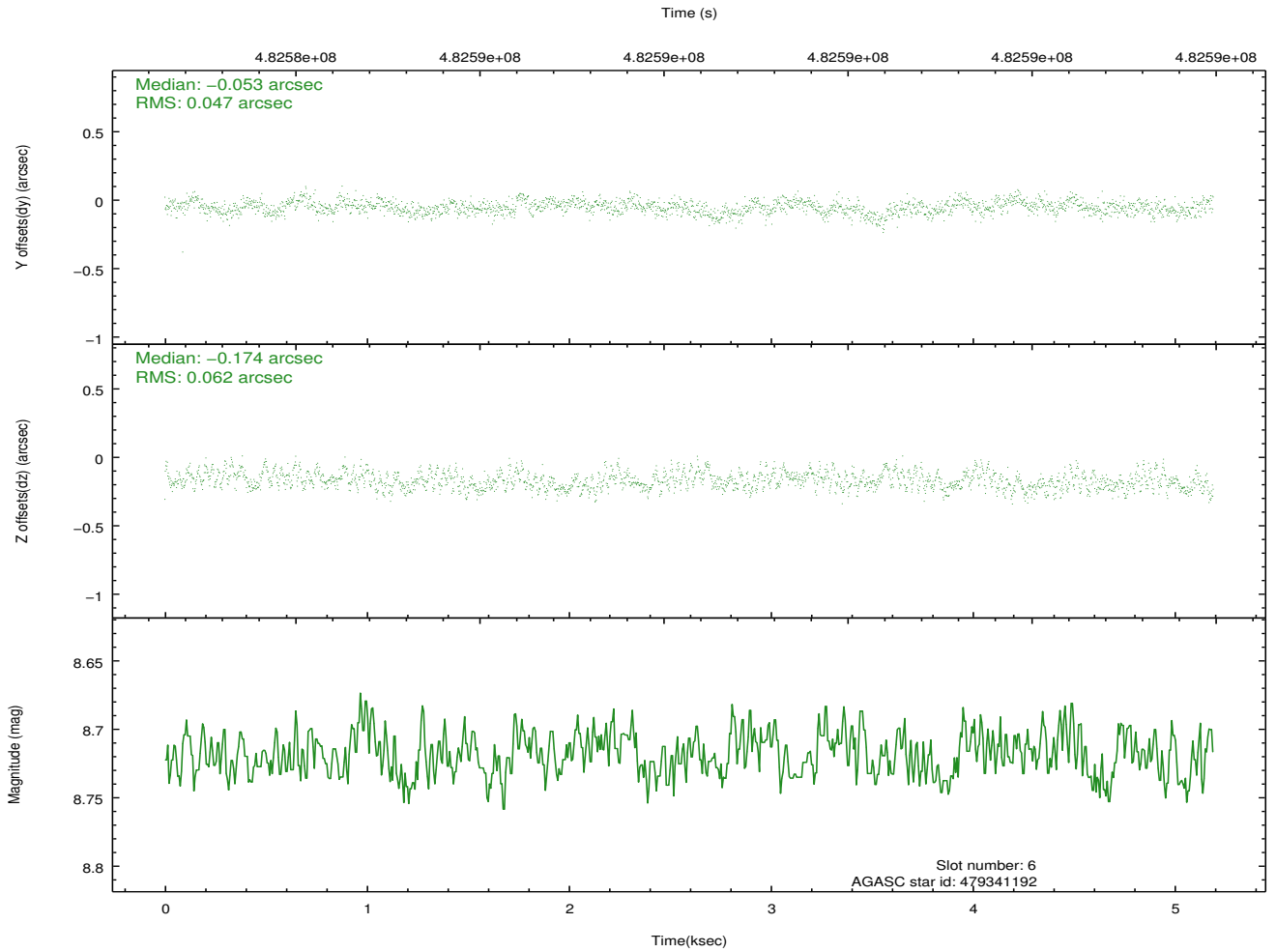
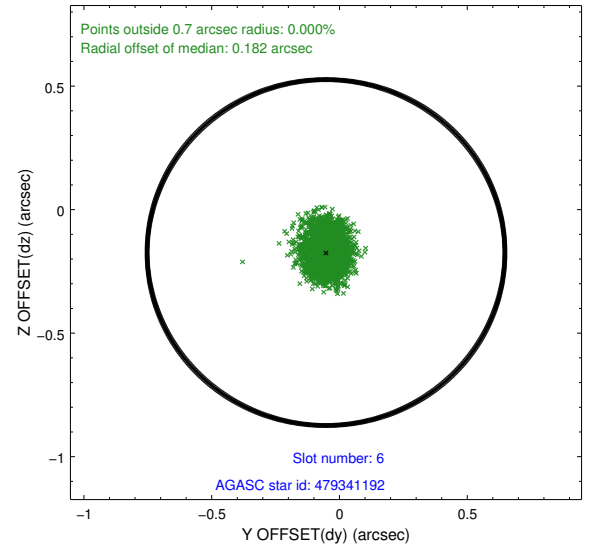
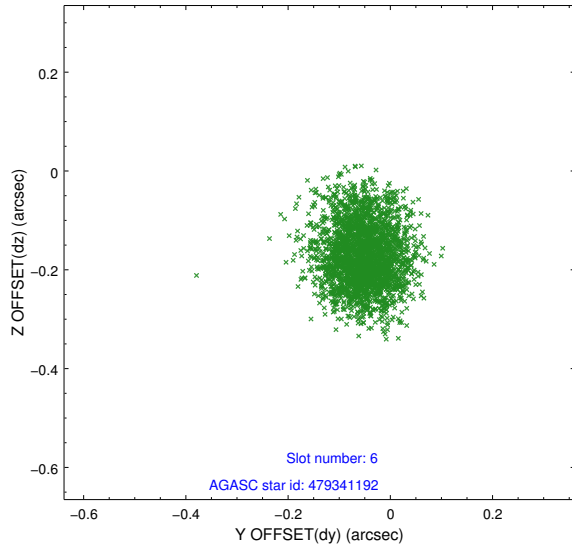
2.4.2 Slot 4



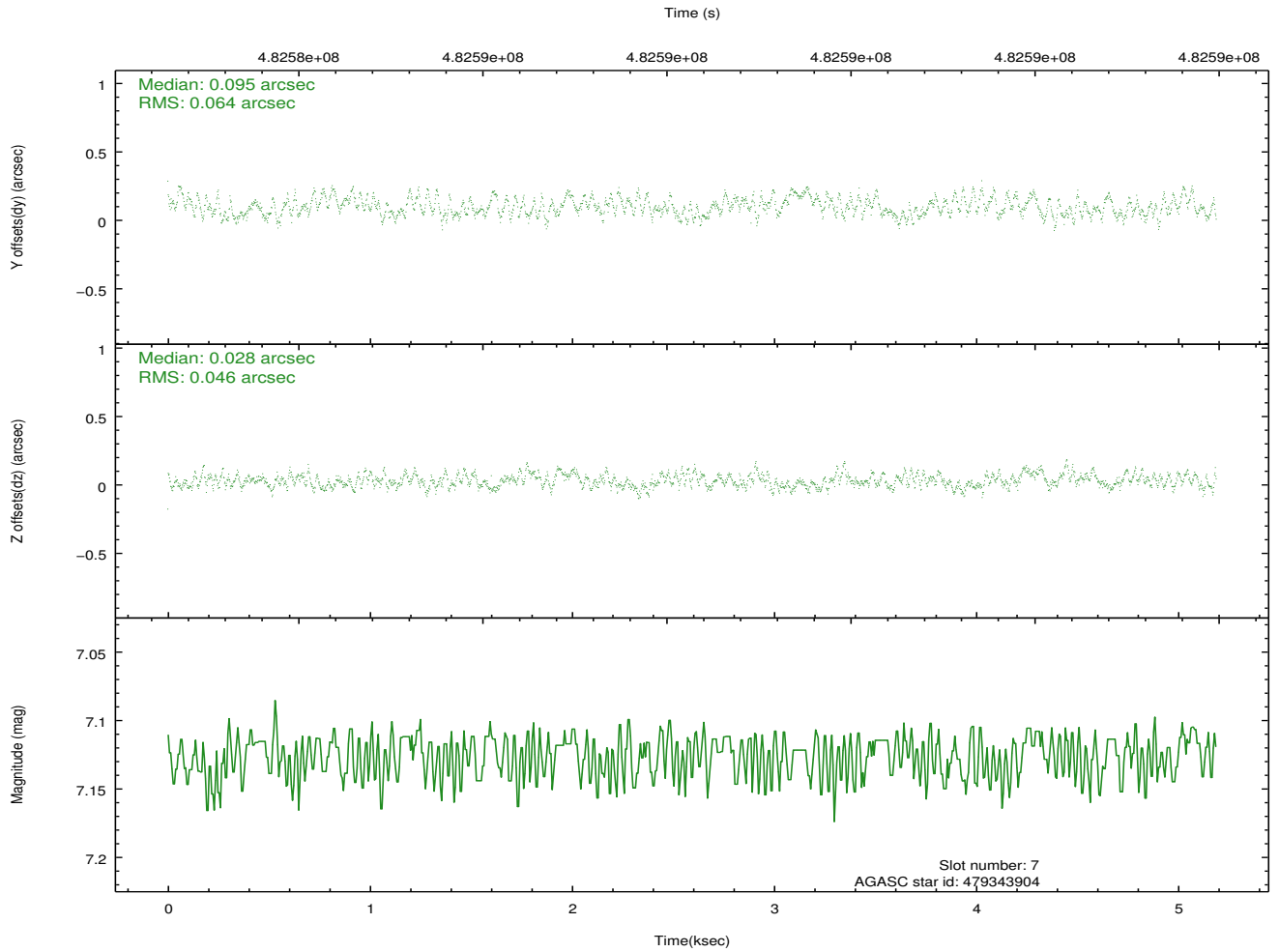
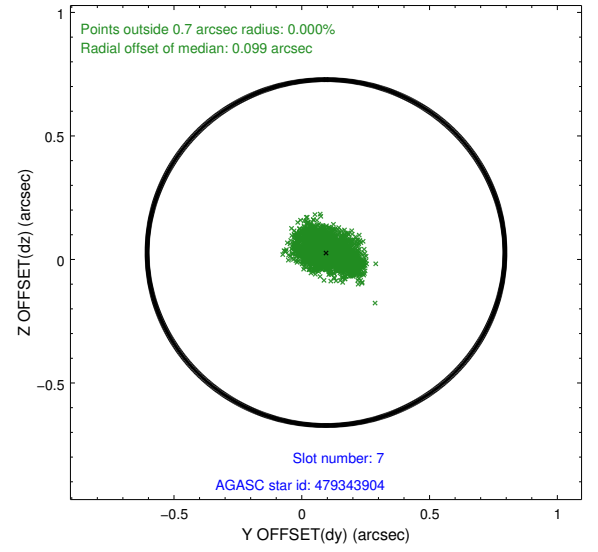
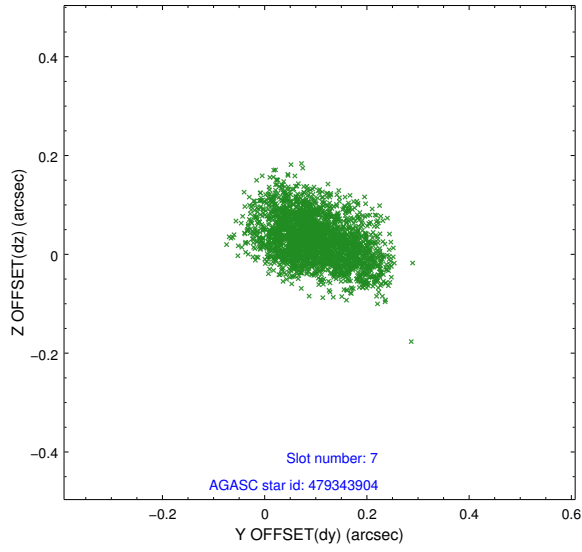
2.4.3 Slot 5



2.4.4 Slot 6

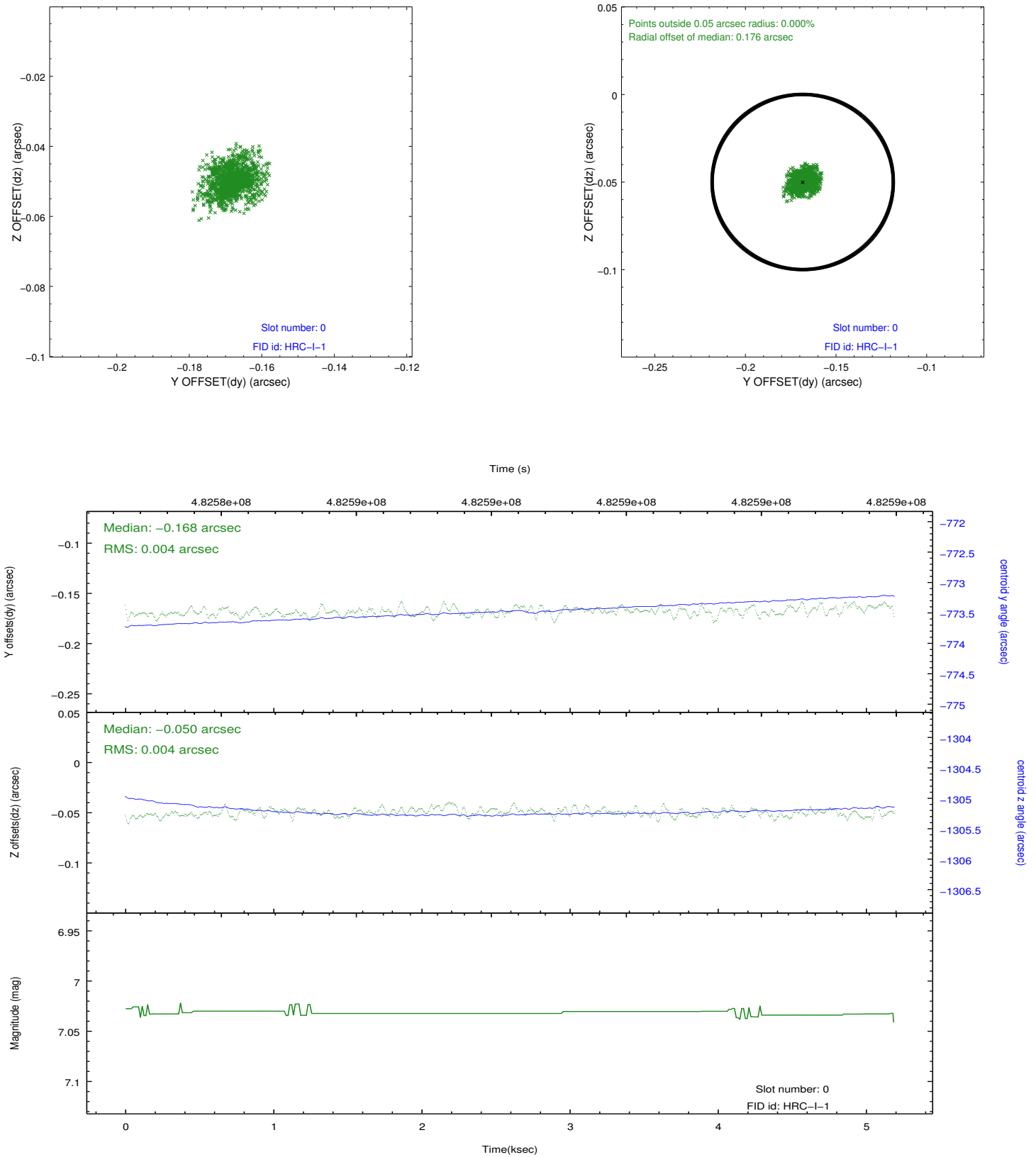


2.4.5 Slot 7

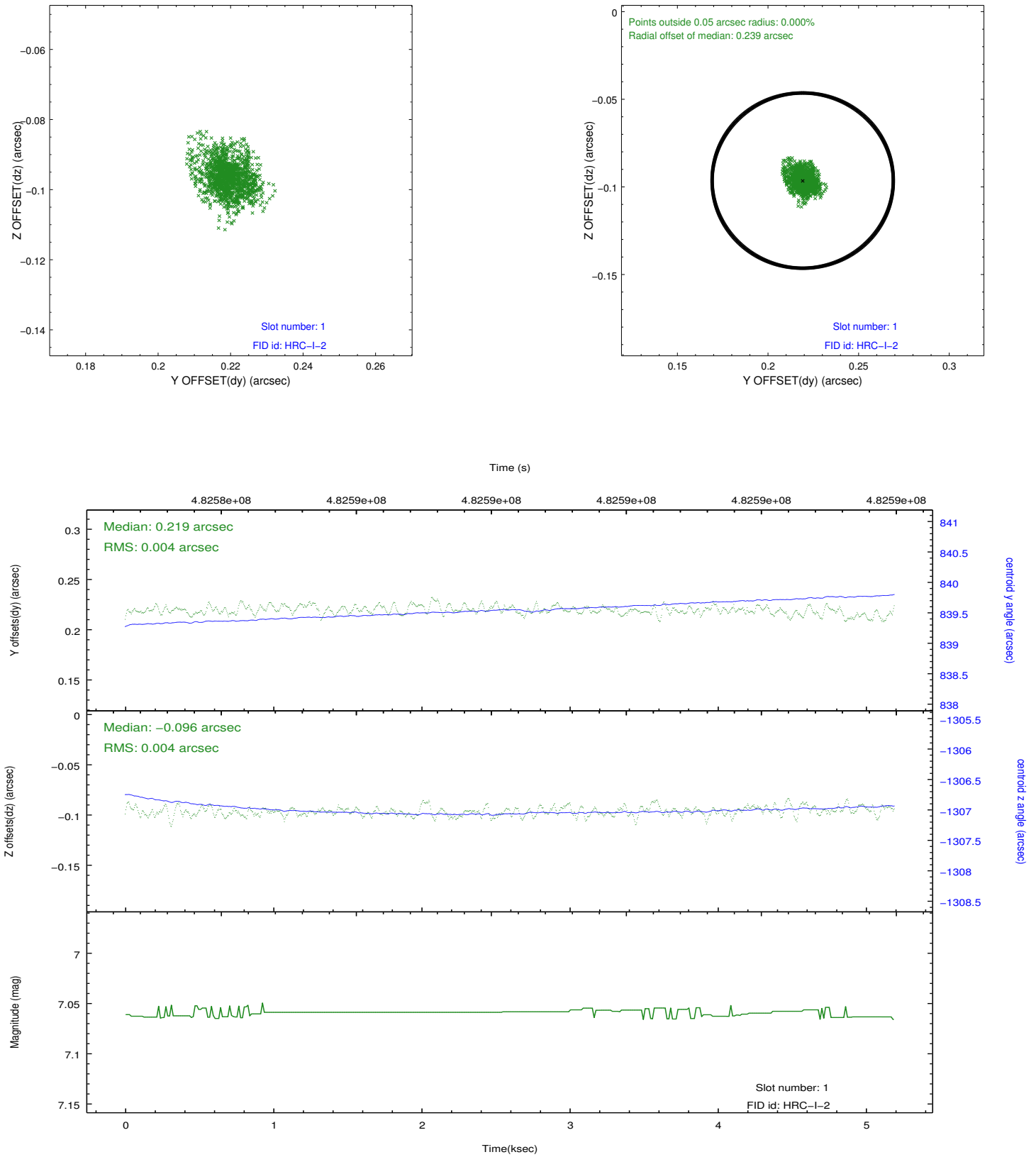


2.5 FID Slots

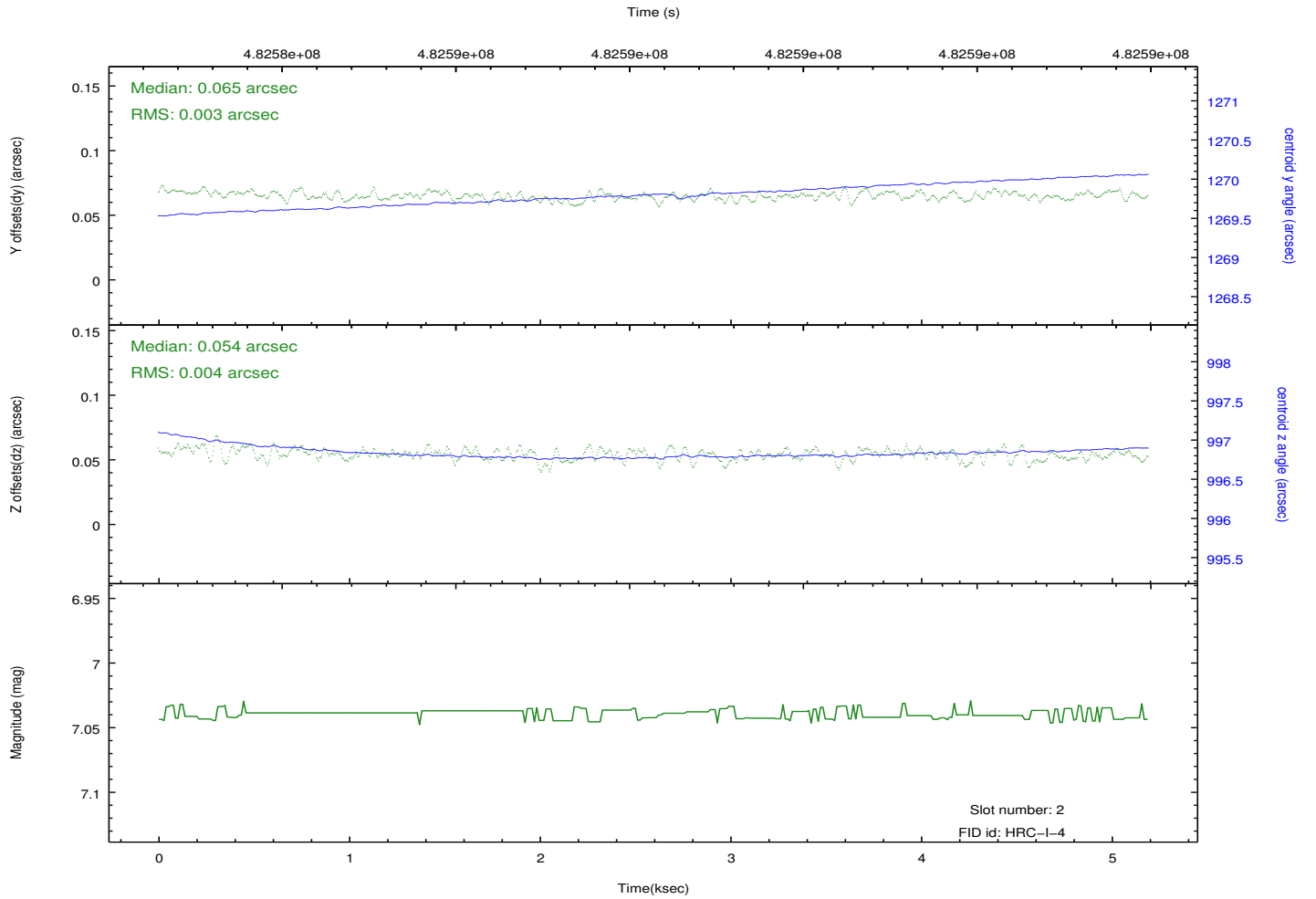
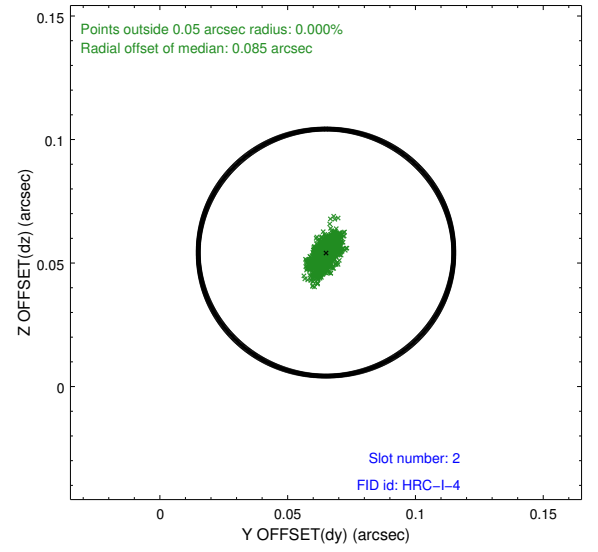
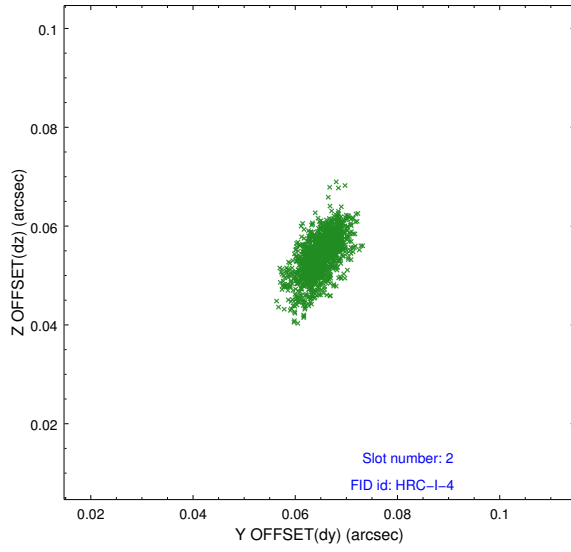
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1898315

A.2 Comments

This is an observation of a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.

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.