

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16300 - L2 Version 2
Chandra X-Ray Center

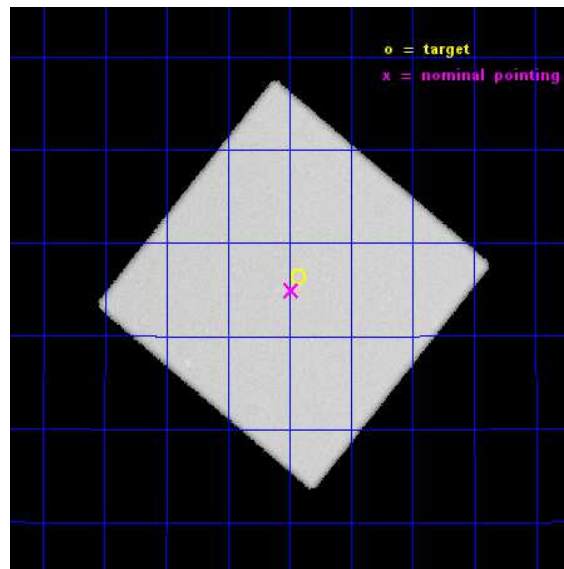
L2 Processing Date : Dec 10 2014

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1 Front

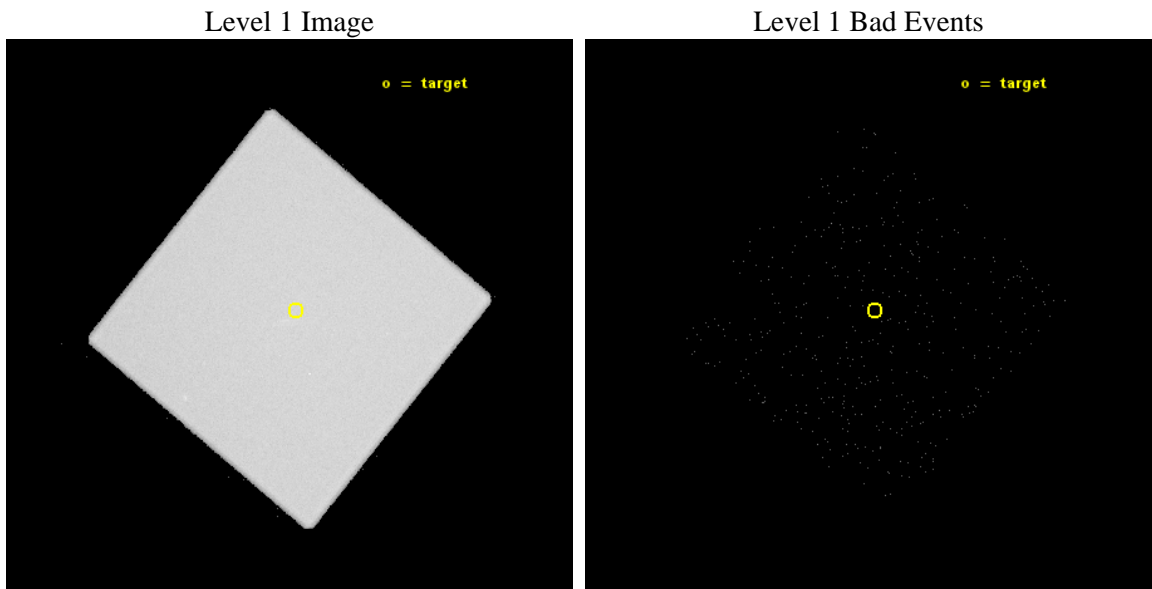
seq_num	100130	Sequence number
obs_id	16300	Observation id
title	A Multi-wavelength campaign to study the Jovian aurora and the Io plasma torus	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	Jupiter	Source name
ra_targ	104.1082	Observer's specified target RA [deg]
dec_targ	23.10675	Observer's specified target Dec [deg]
ra_nom	104.1210982321	Nominal RA [deg]
dec_nom	23.082246825133	Nominal Dec [deg]
roll_nom	264.45513025556	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39794.602195323	[s]
livetime	39456.30033289	Ontime multiplied by DTCOR
l2events	2350612	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	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	39794.602195323	[s]
caldbver	4.6.4	 	l1events	3170911	Number of level 1 events
date	2014-12-11T03:37:25	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

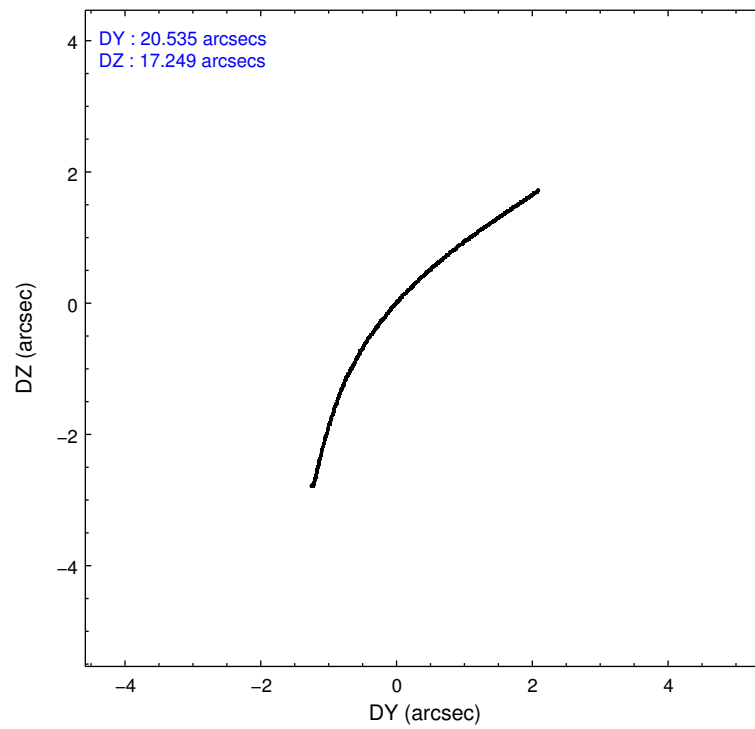
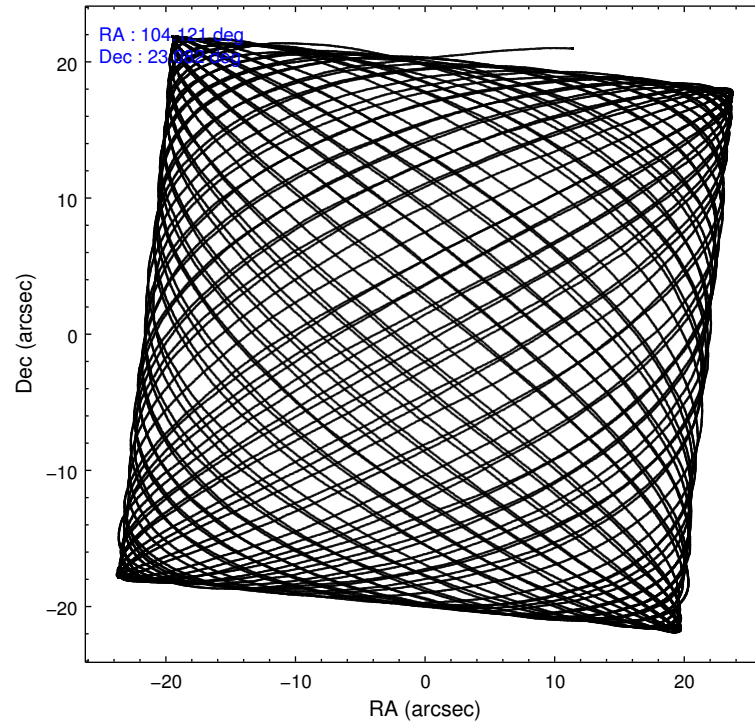
Level 1 Events

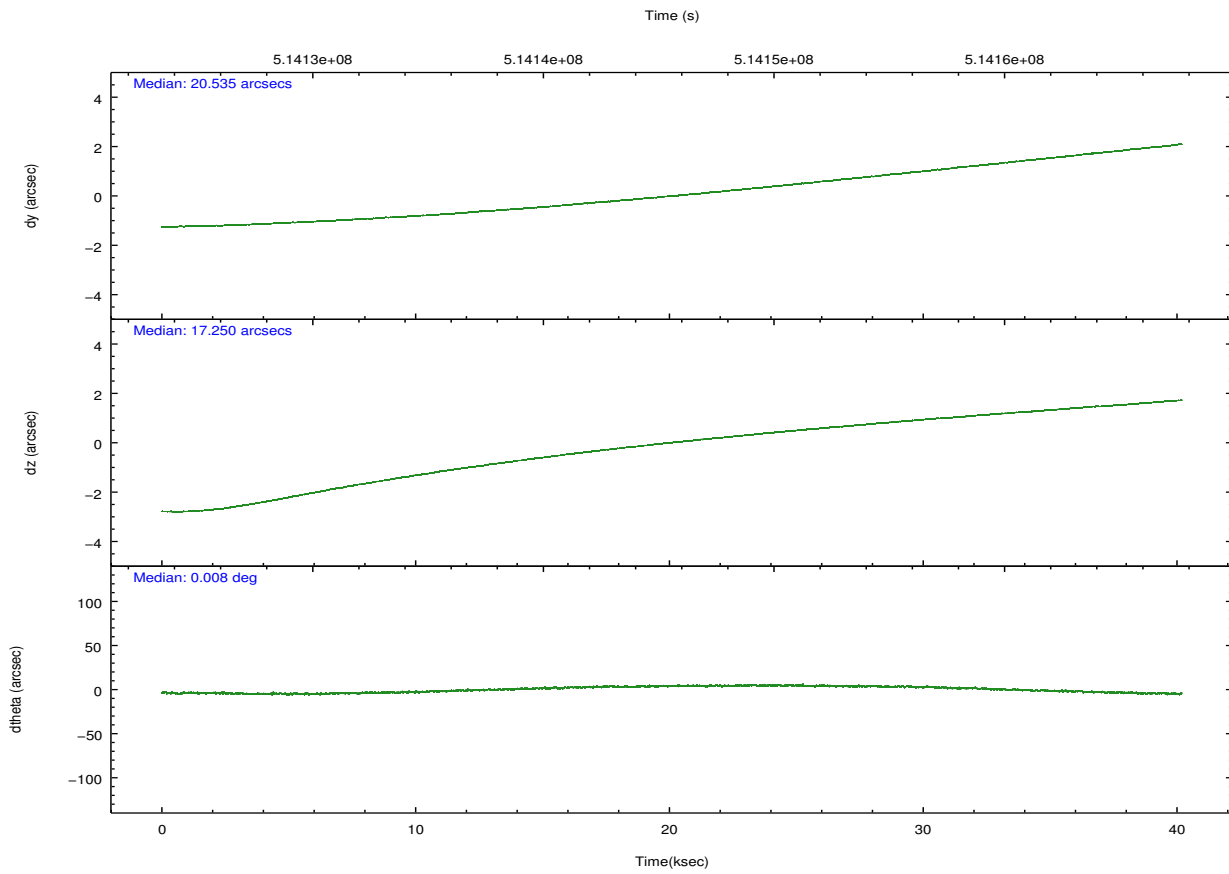
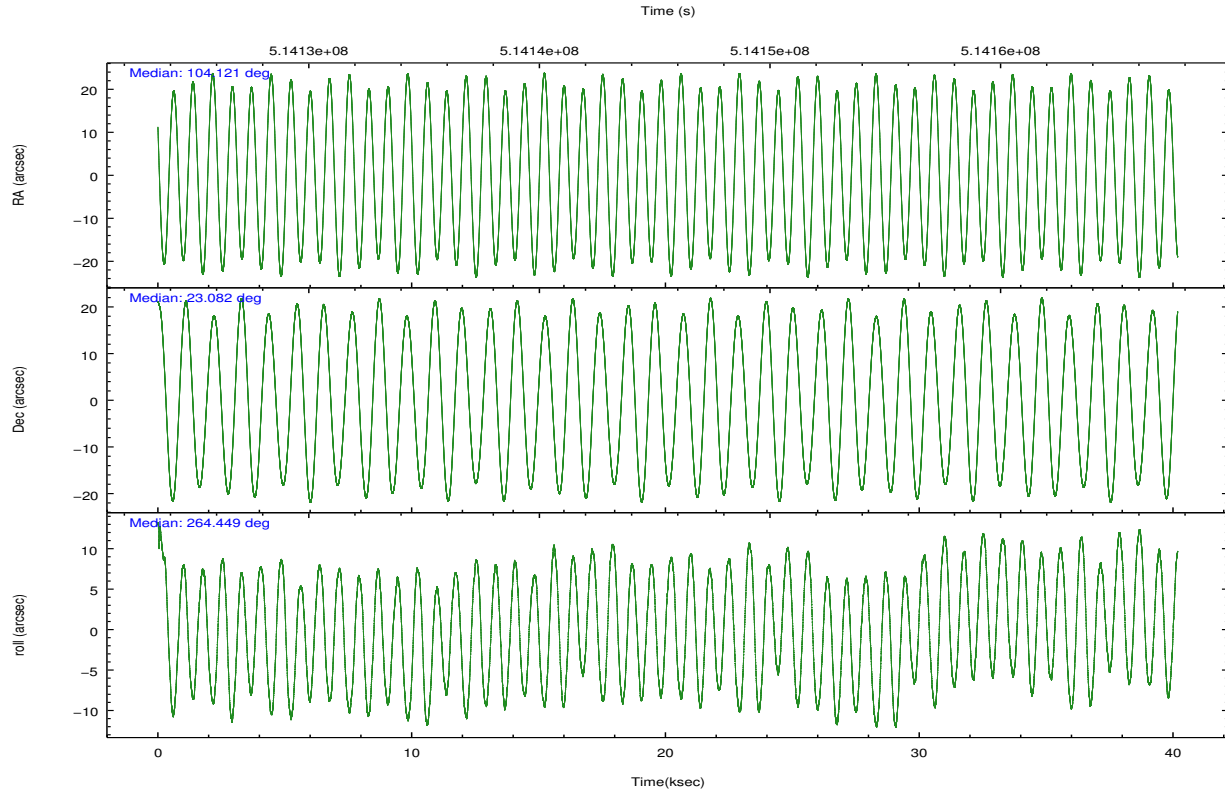
	segment 0
level 1 events	3170911
rejected events	6547
rejected %	0%

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	104.108254	104.1210982320977			
[deg] Pointing Dec	23.106750	23.0822468251329			
[deg] Pointing Roll	264.555656	264.4551302555614			
[s] Window start time (MET)	513216067.184000	513216067.184000			
[s] Window stop time (MET)	514339207.184000	514339207.184000			
[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)	514125657.184000	514124438.35067			
Observation start date	2014-04-17T12:39:50	2014-04-17T12:20:38			
[s] Observation end time (MET)	514165657.184000	514166538.17799			
Observation end date	2014-04-17T23:46:30	2014-04-18T00:02:18			

2.3 Aspect



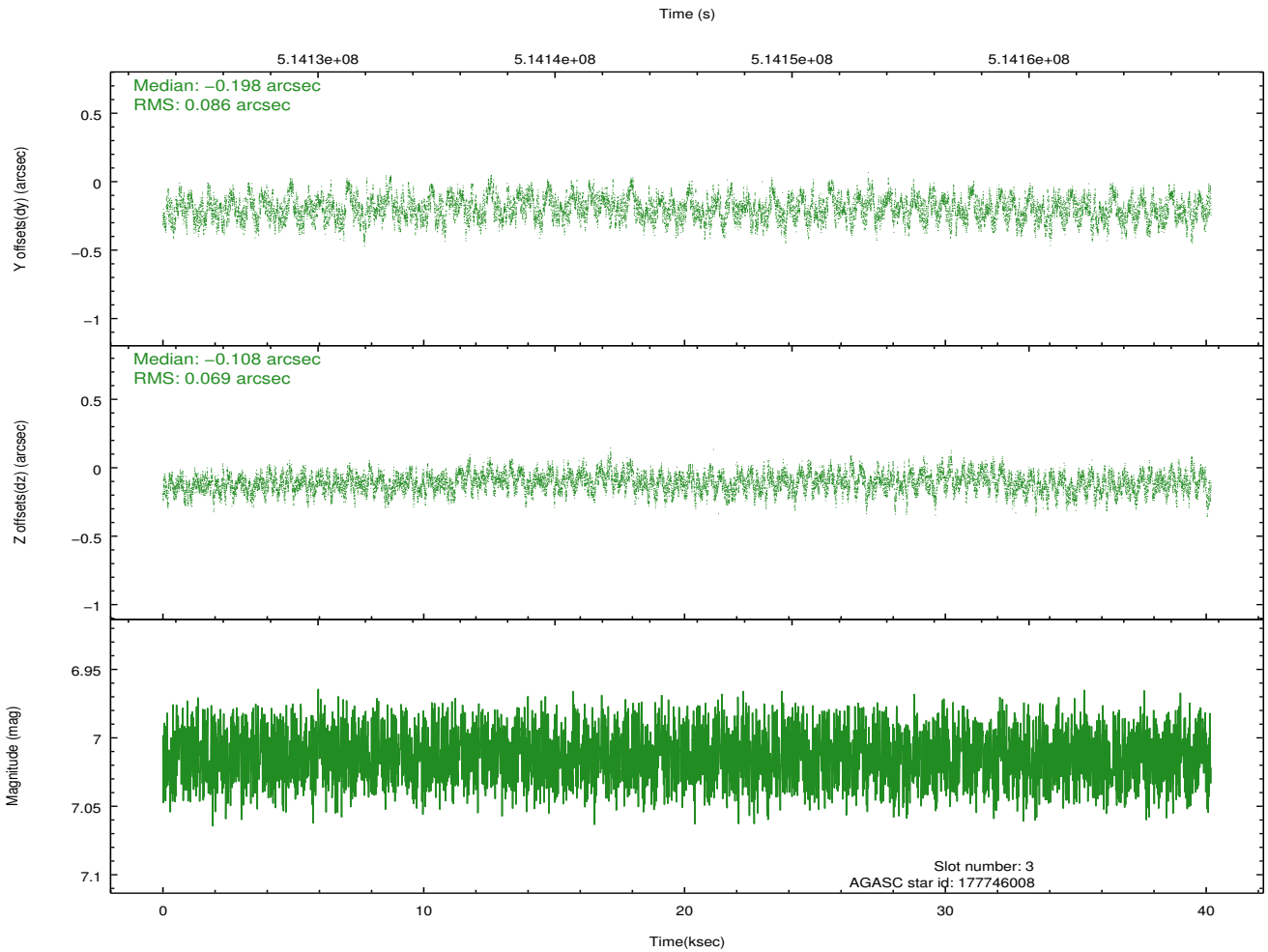
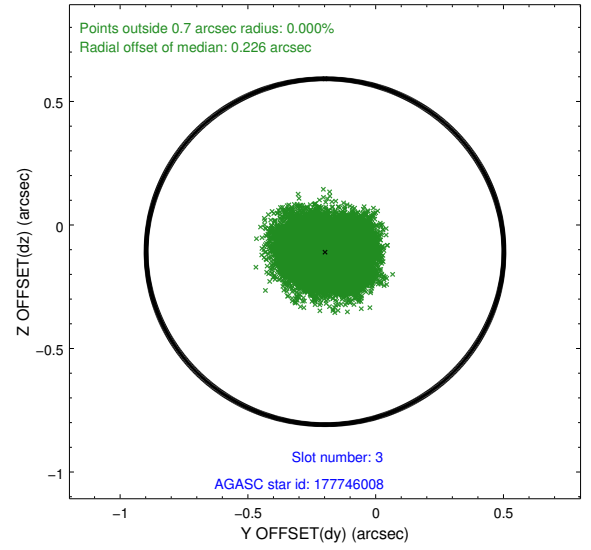
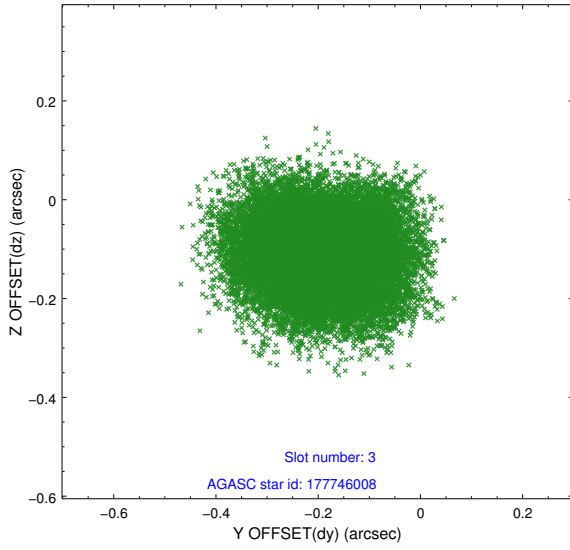


Slot Statistics

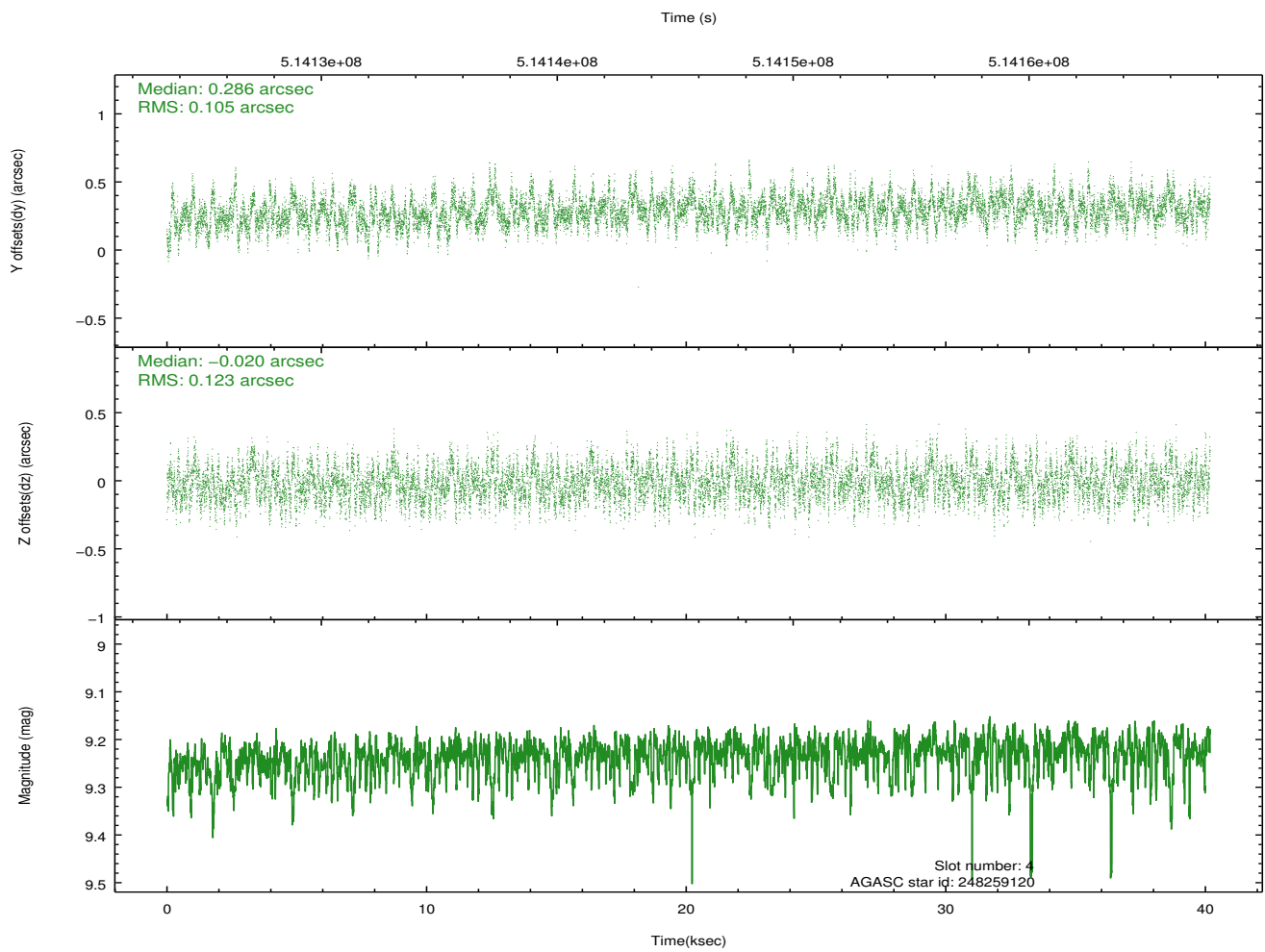
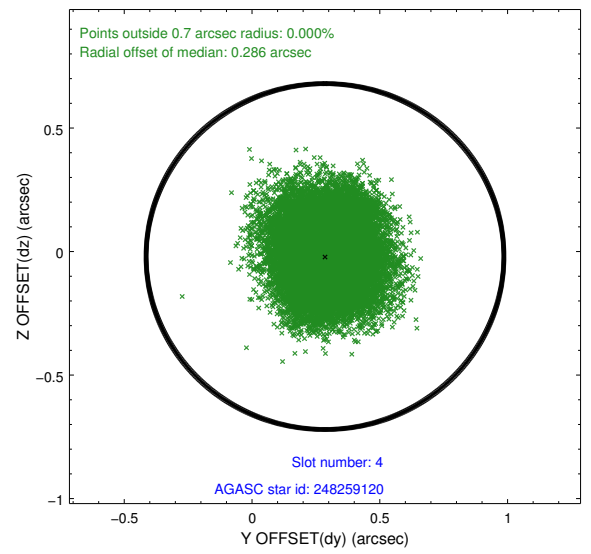
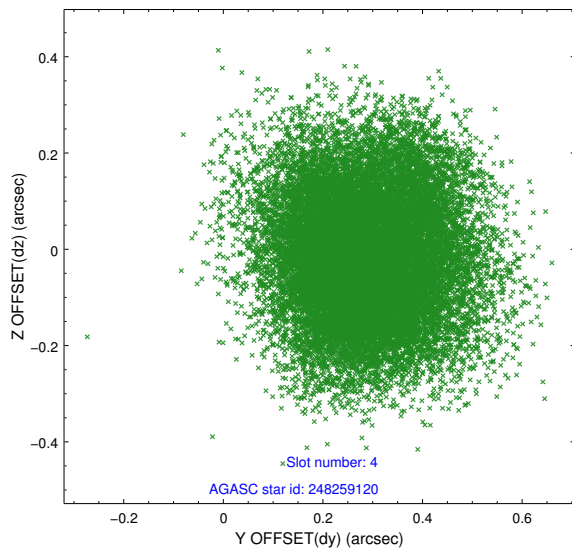
lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-I-1	6.95	9801	-0.097	0.049	0.025	0.037	0.000000	0.000000	-776.71	-1305.11
1	FID		HRC-I-2	6.98	9801	0.223	-0.101	0.020	0.030	0.000000	0.000000	836.16	-1306.91
2	FID		HRC-I-3	7.03	9801	-0.009	-0.034	0.020	0.030	0.000000	0.000000	-1205.05	999.21
3	GUIDE	used	177746008	7.01	19603	-0.198	-0.108	0.120	0.187	104.548959	22.475883	2118.14	1675.71
4	GUIDE	used	248259120	9.23	19592	0.286	-0.020	0.172	0.279	103.429787	22.893707	972.80	-2167.11
5	GUIDE	used	248263160	9.30	19587	0.145	0.170	0.170	0.273	103.915522	23.699104	-2062.30	-834.81
6	GUIDE	used	248263744	8.69	19597	0.153	0.002	0.134	0.217	103.469515	22.947340	768.24	-2053.51
7	BAD	used	248253864	10.03	17559	-0.423	-0.064	0.330	0.546	103.490673	23.249226	-320.12	-2081.31

2.4 Star Slots

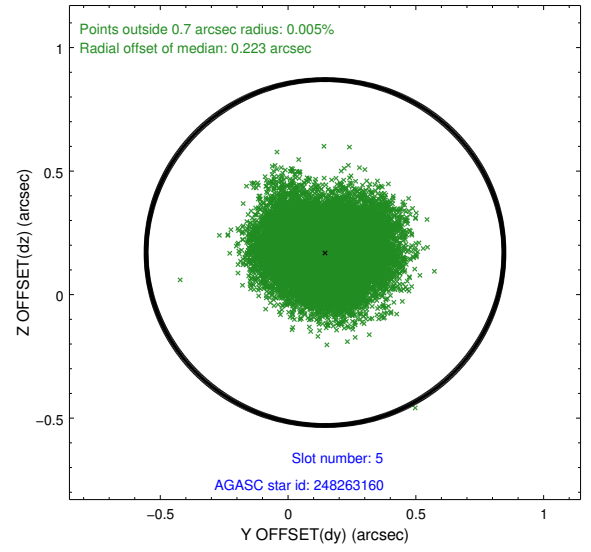
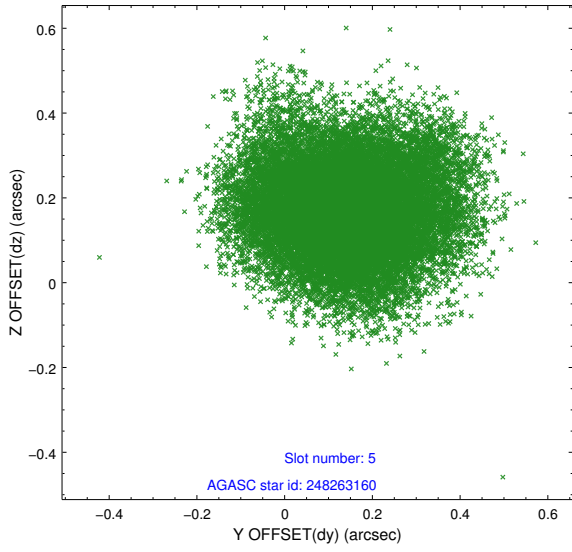
2.4.1 Slot 3



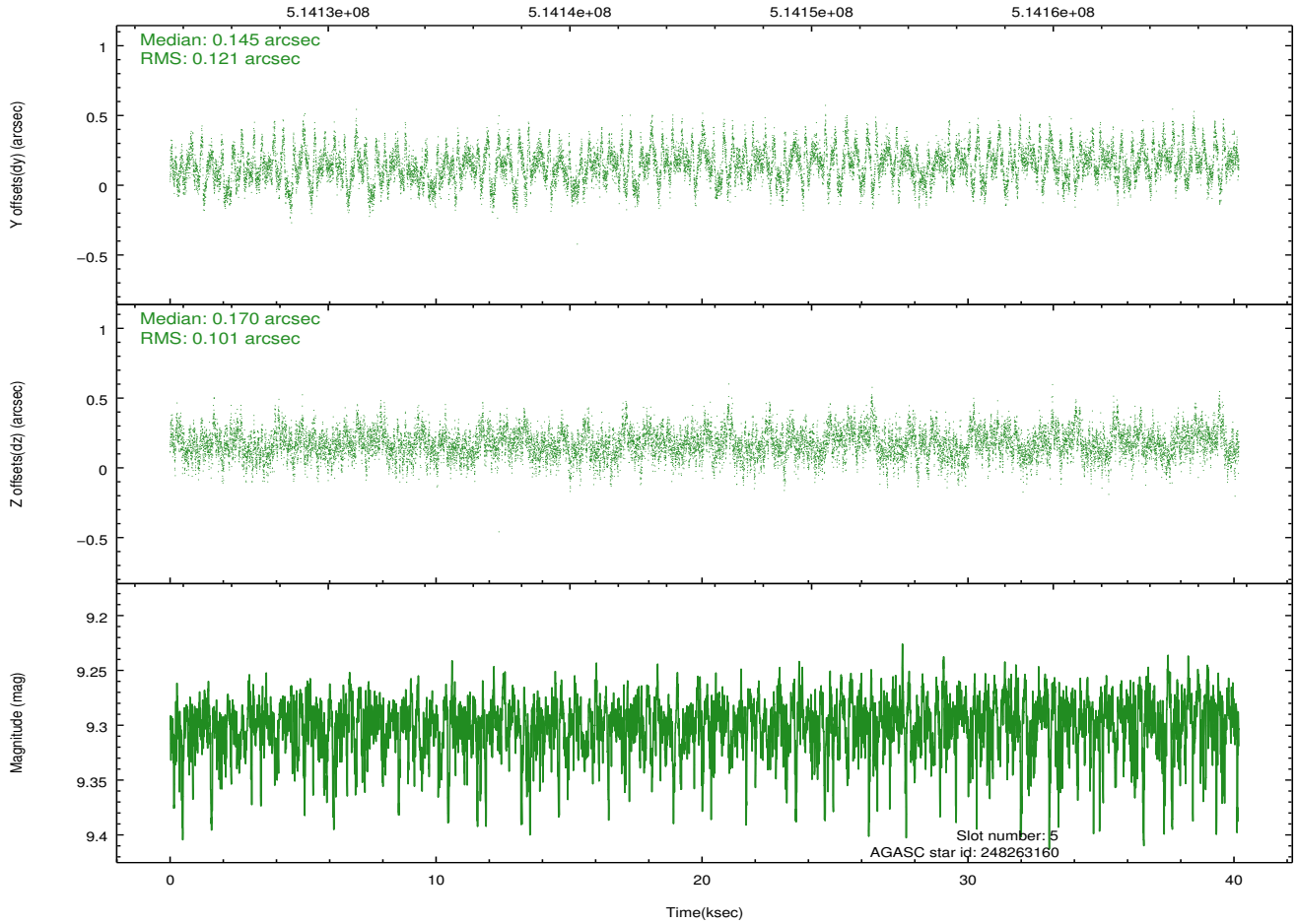
2.4.2 Slot 4



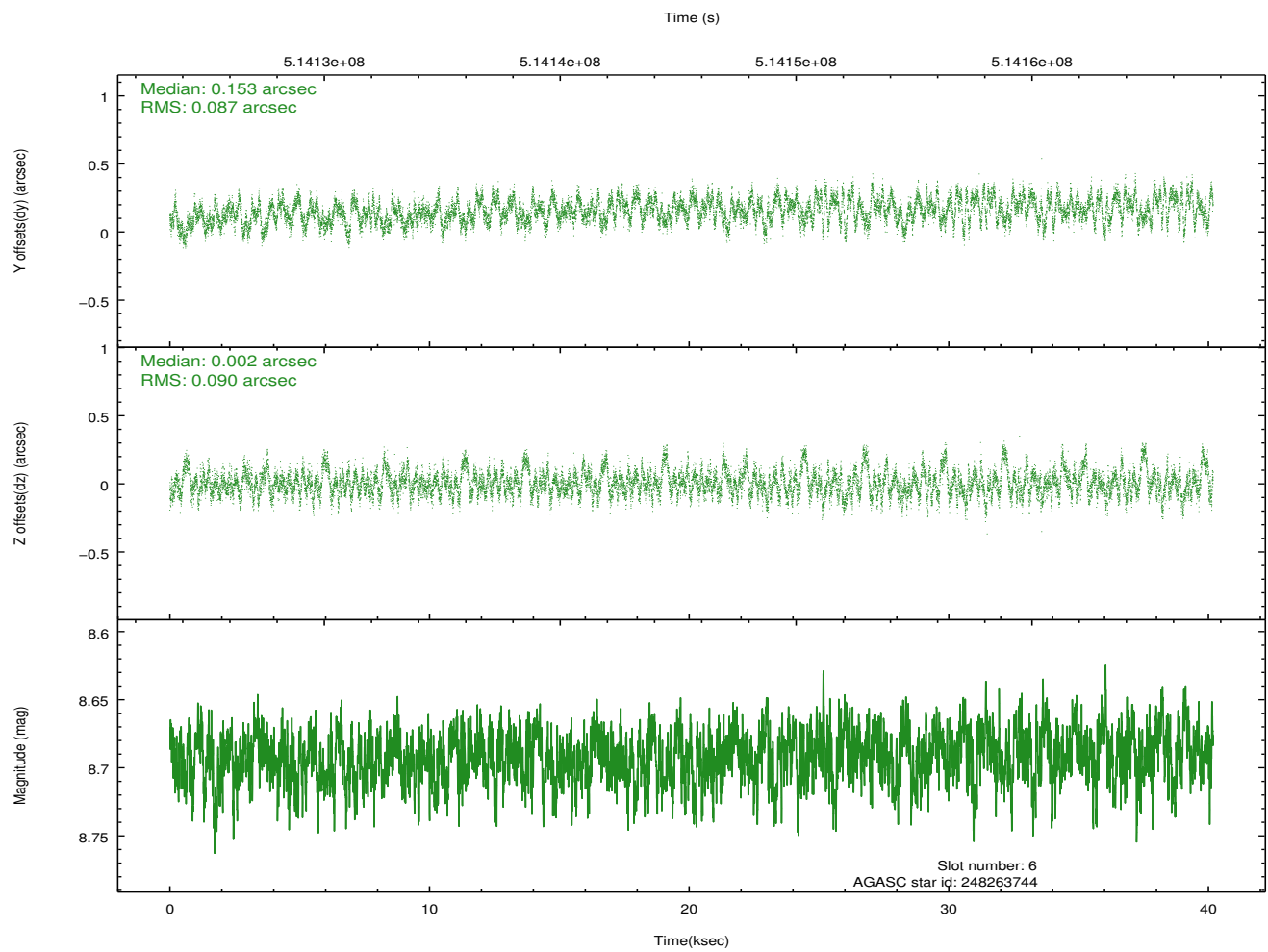
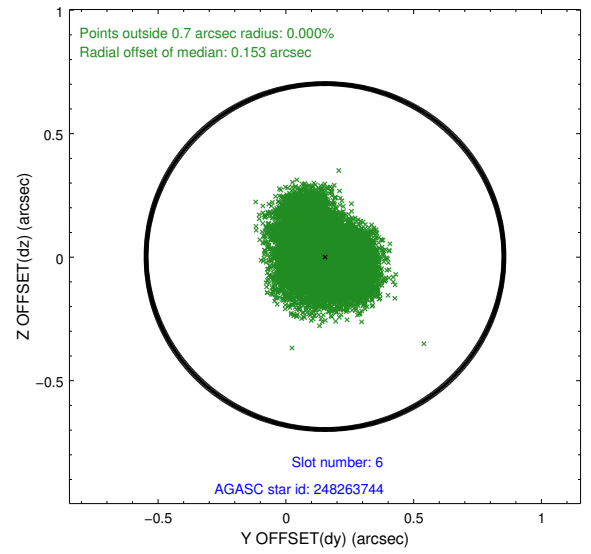
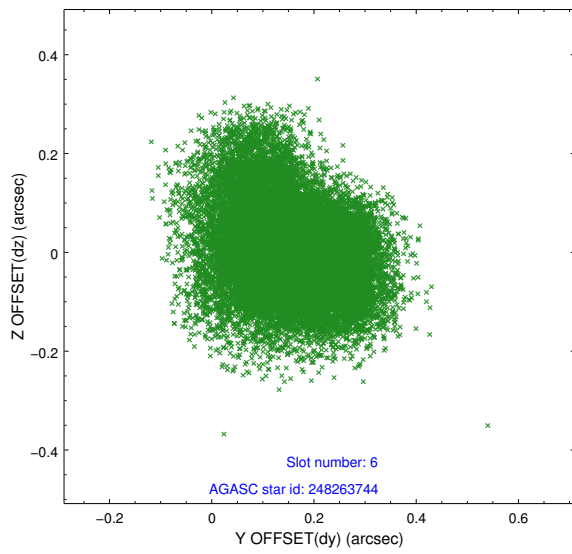
2.4.3 Slot 5



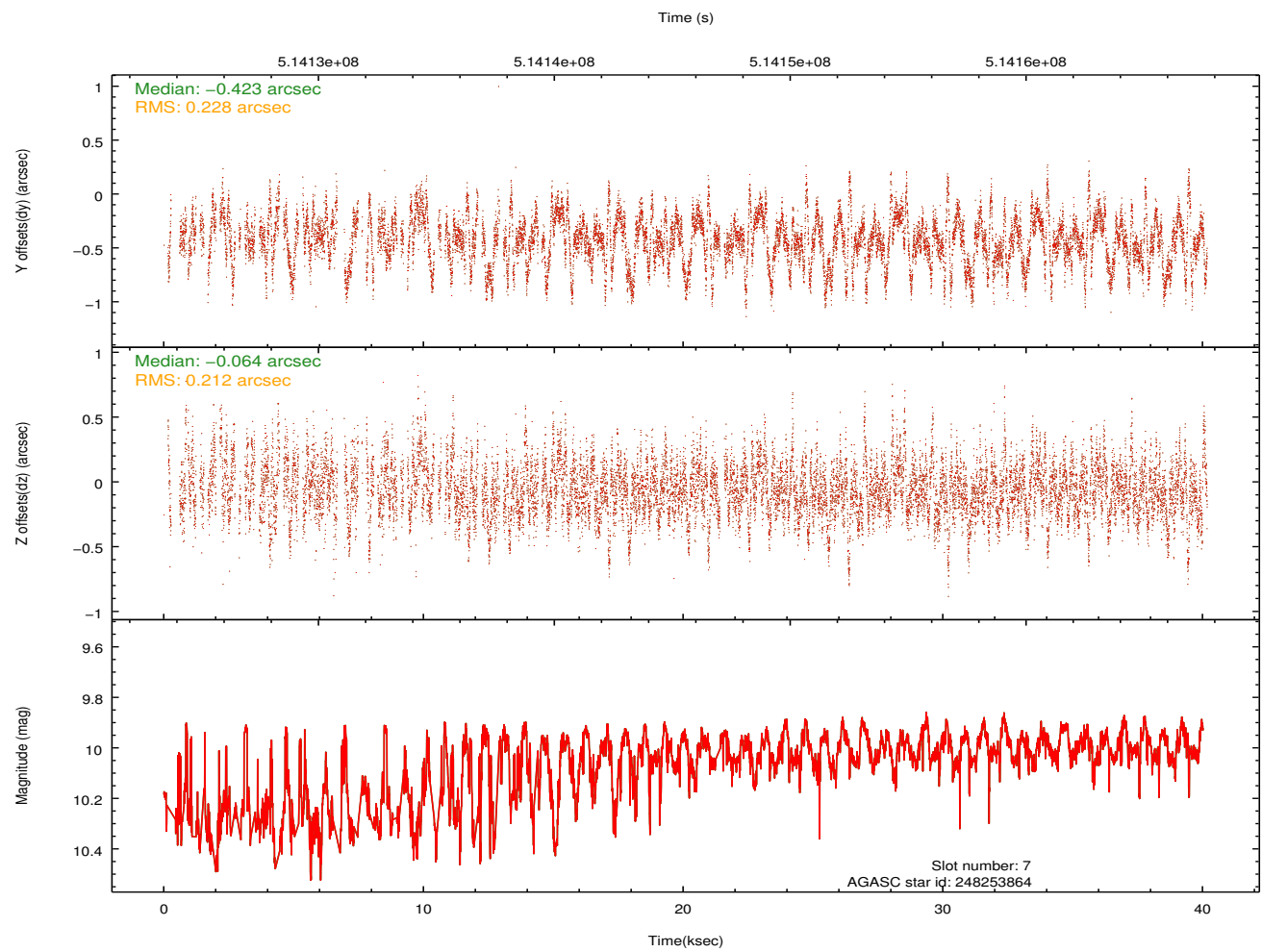
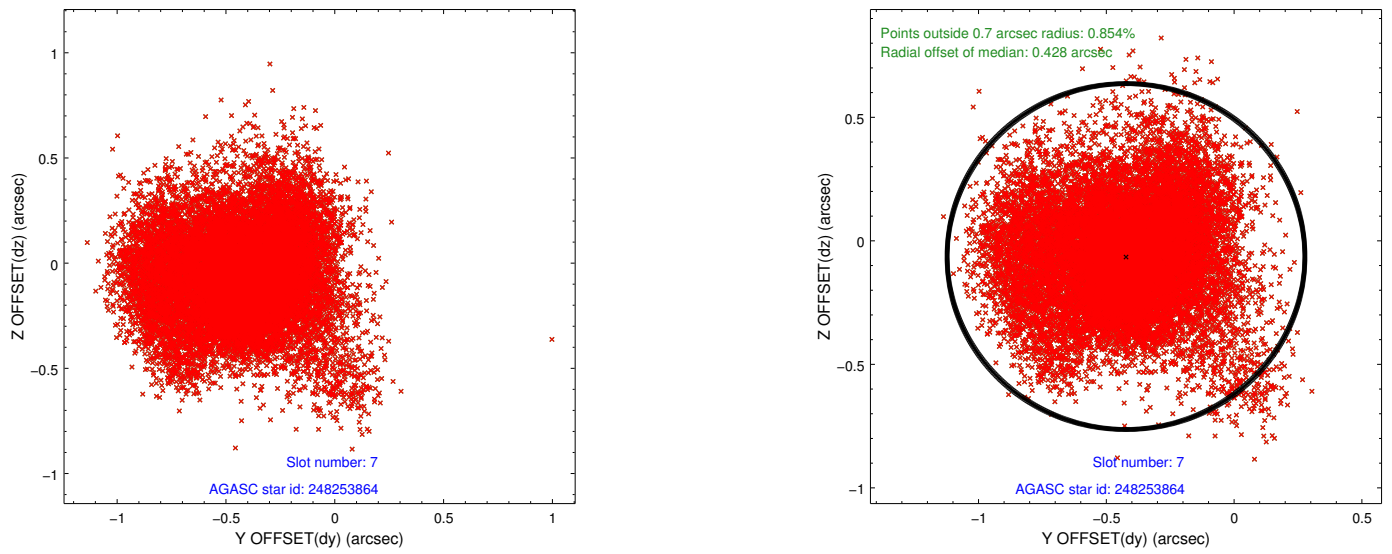
Time (s)



2.4.4 Slot 6

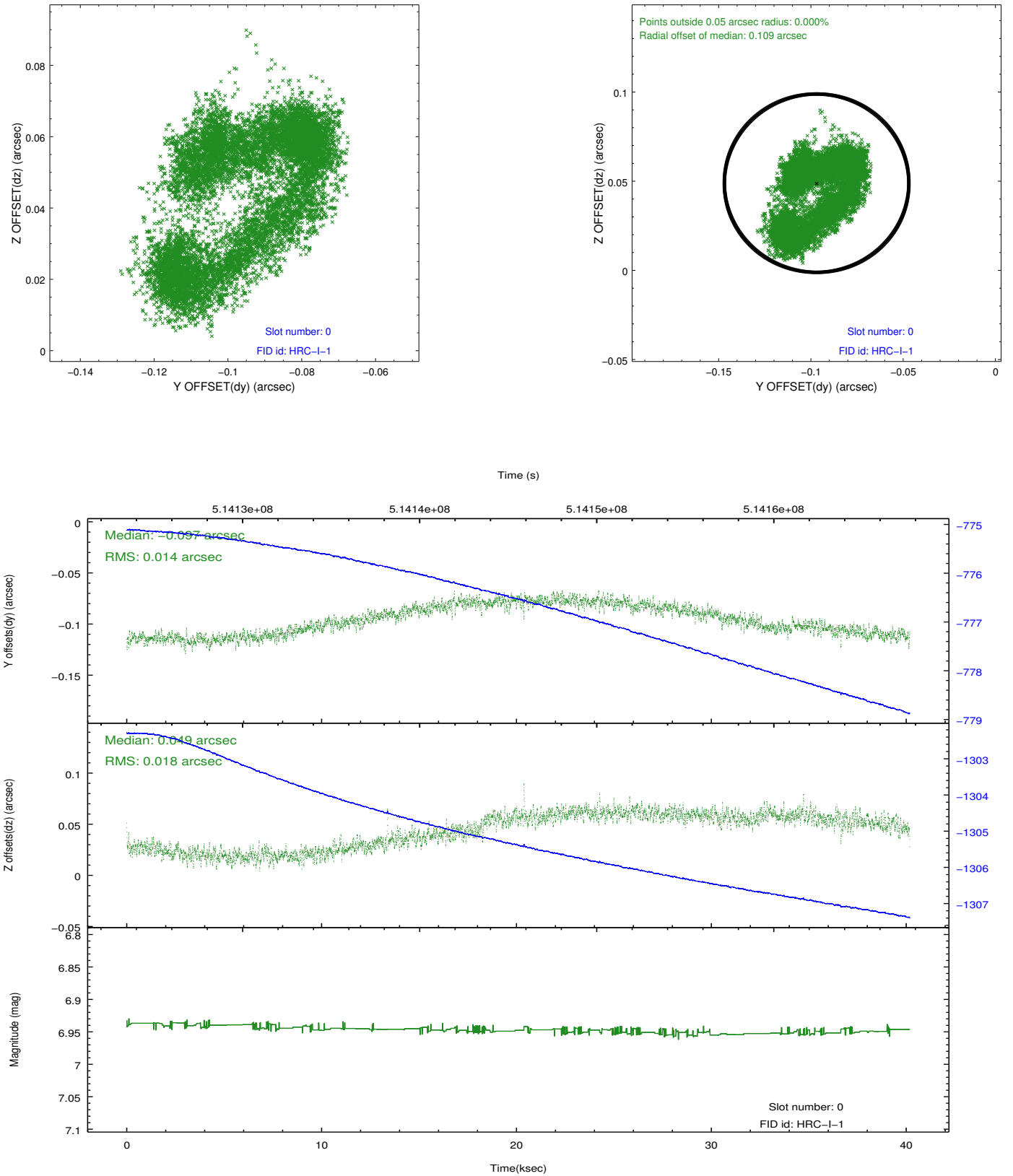


2.4.5 Slot 7

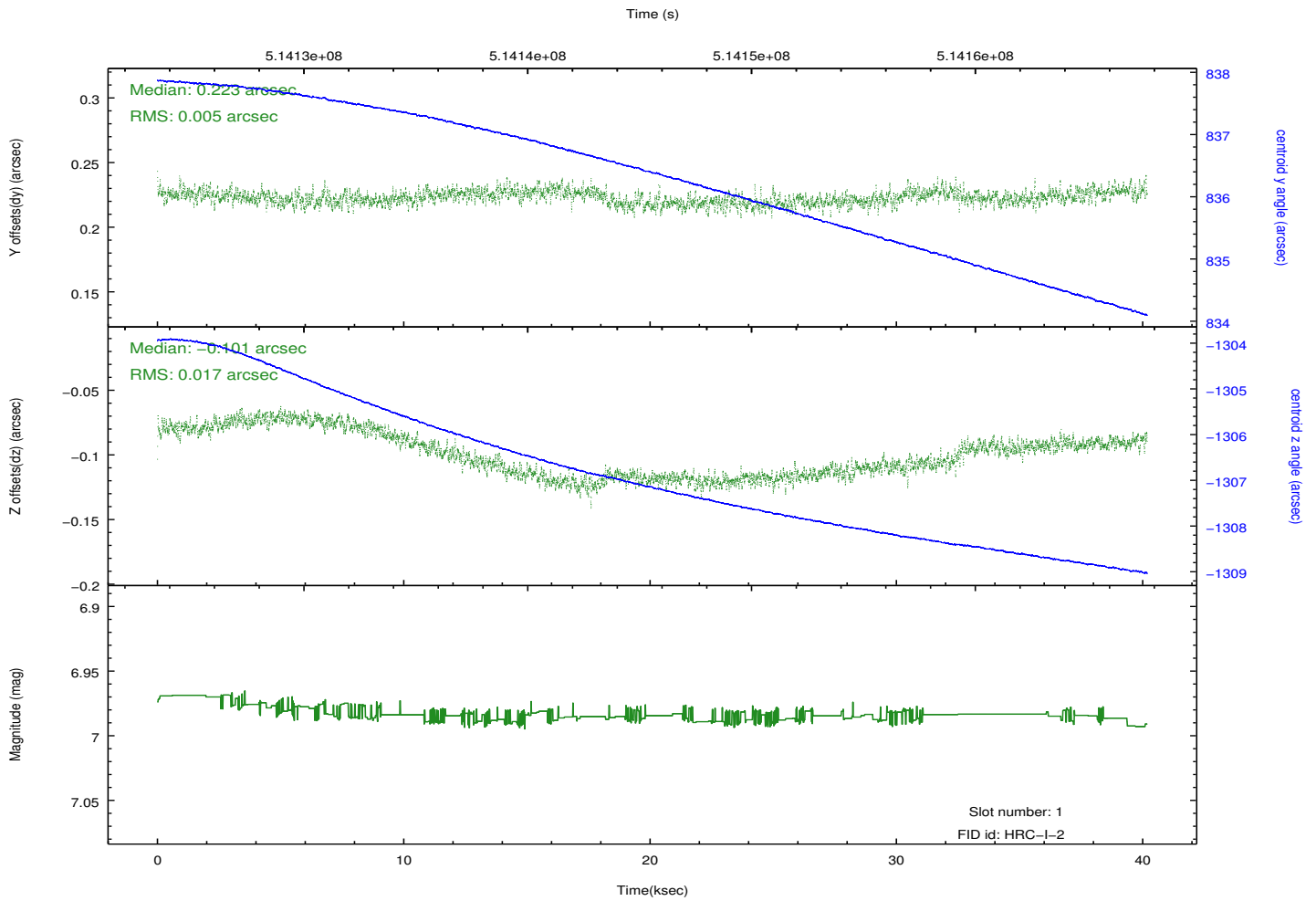
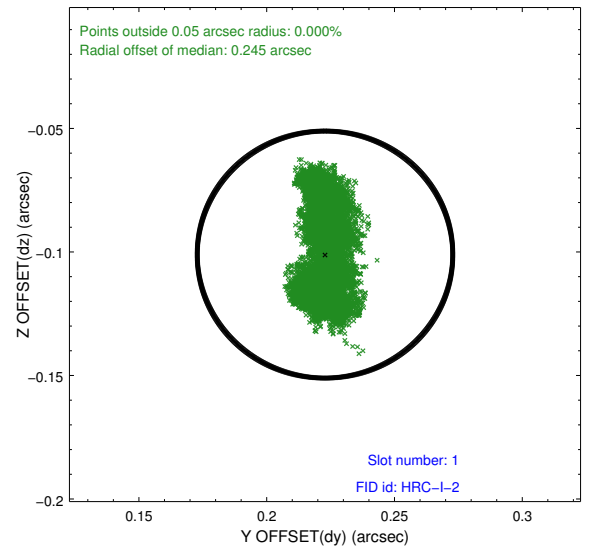
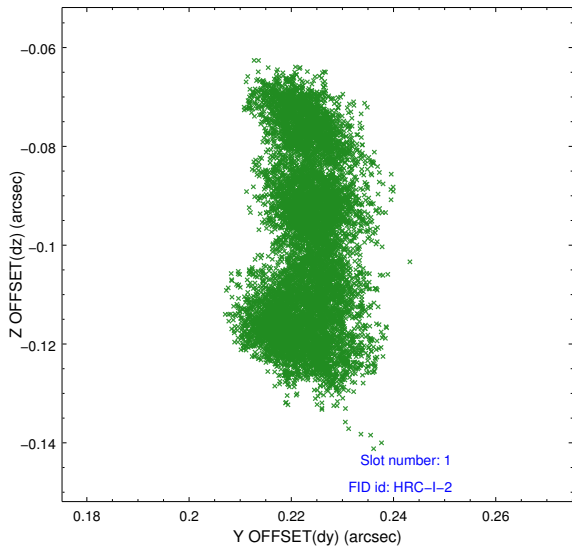


2.5 FID Slots

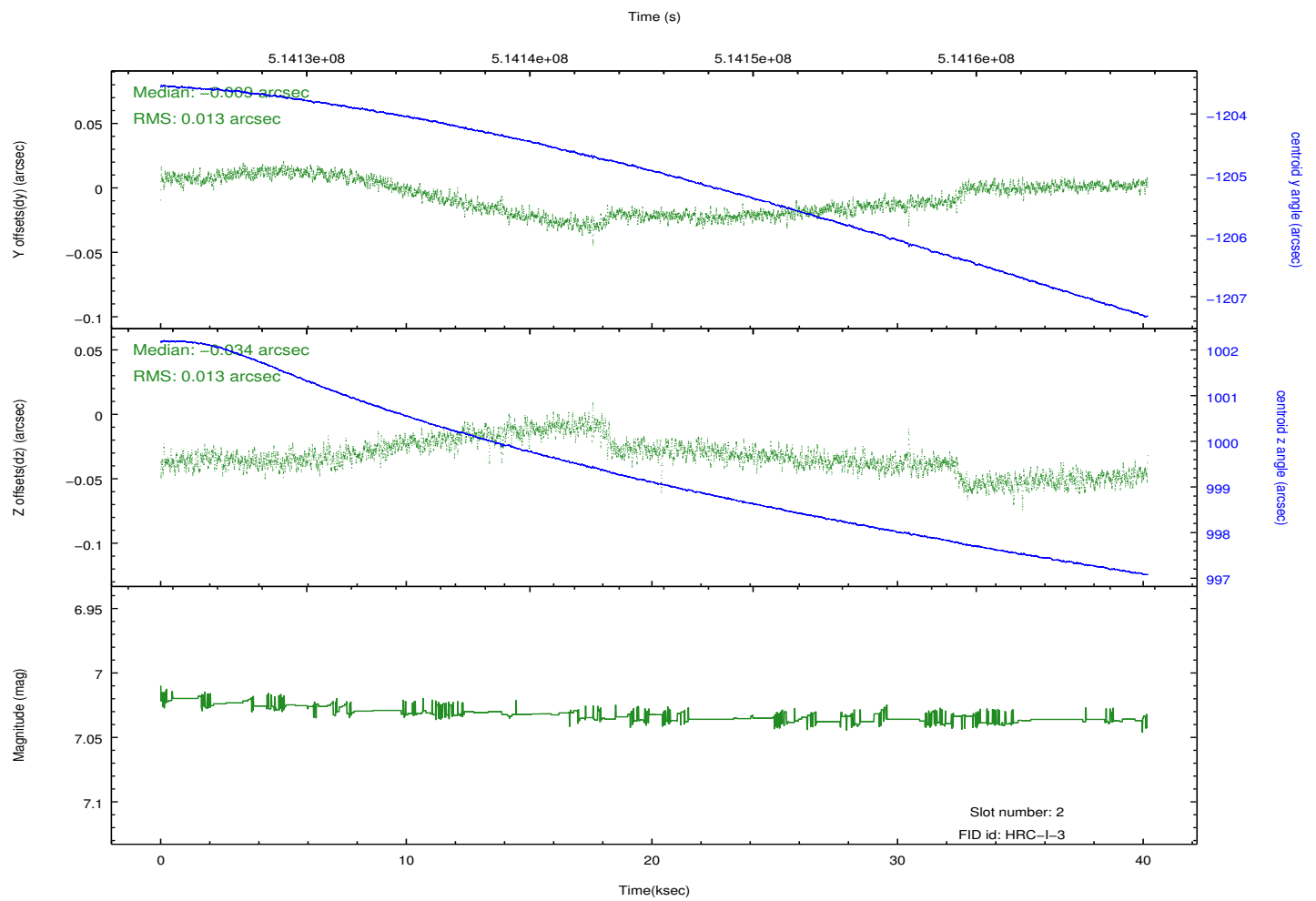
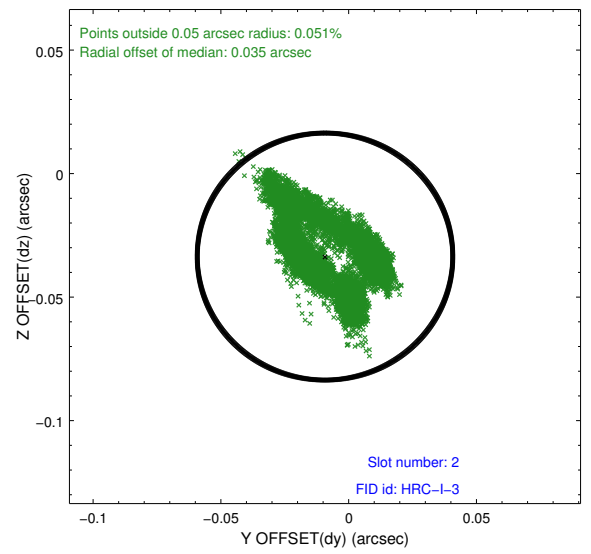
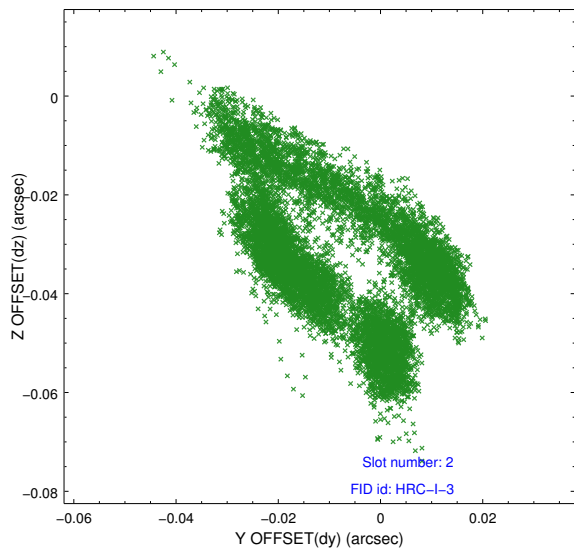
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.794602195323

A.2 Comments

Window preference met.

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.