

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16332 - L2 Version 2
Chandra X-Ray Center

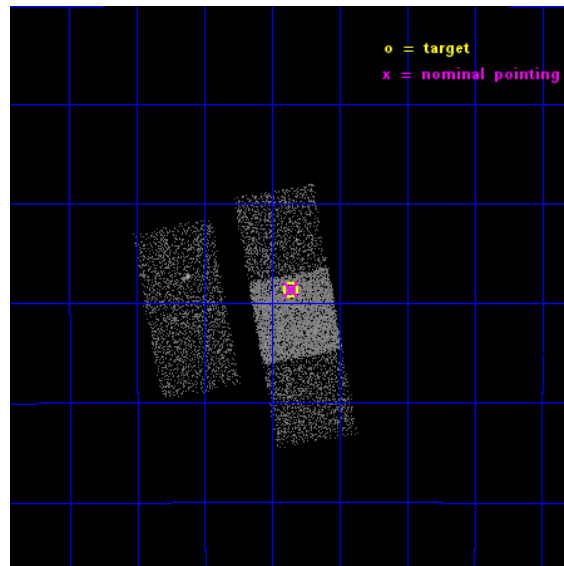
L2 Processing Date : Dec 10 2014

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1 Front

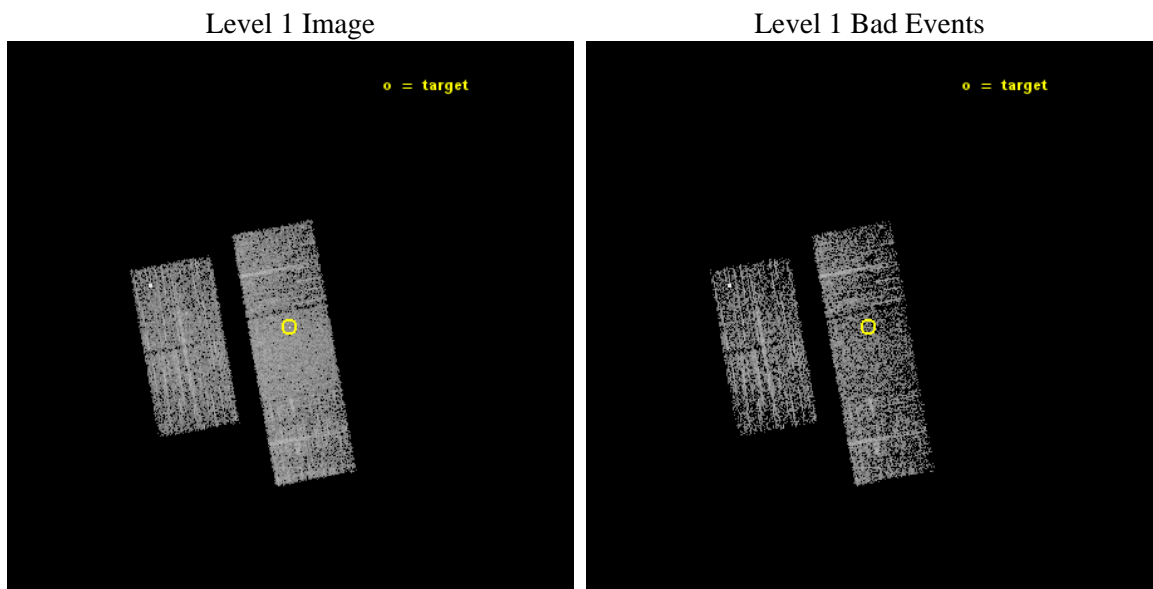
seq_num	200958	Sequence number
obs_id	16332	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	US 16062196-1928445	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.591667	Observer's specified target RA [deg]
dec_targ	-19.479028	Observer's specified target Dec [deg]
ra_nom	241.5894816447	Nominal RA [deg]
dec_nom	-19.477131777541	Nominal Dec [deg]
roll_nom	79.644284469177	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3065.9000235796	Sum of GTIs [s]
livetime	3025.8417826888	Livetime [s]
ontime2	3065.9000235796	Sum of GTIs [s]
ontime3	3065.9000235796	Sum of GTIs [s]
ontime6	3065.9000235796	Sum of GTIs [s]
ontime7	3065.9000235796	Sum of GTIs [s]
ontime8	3065.9000235796	Sum of GTIs [s]
l2events	14862	Number of level 2 events



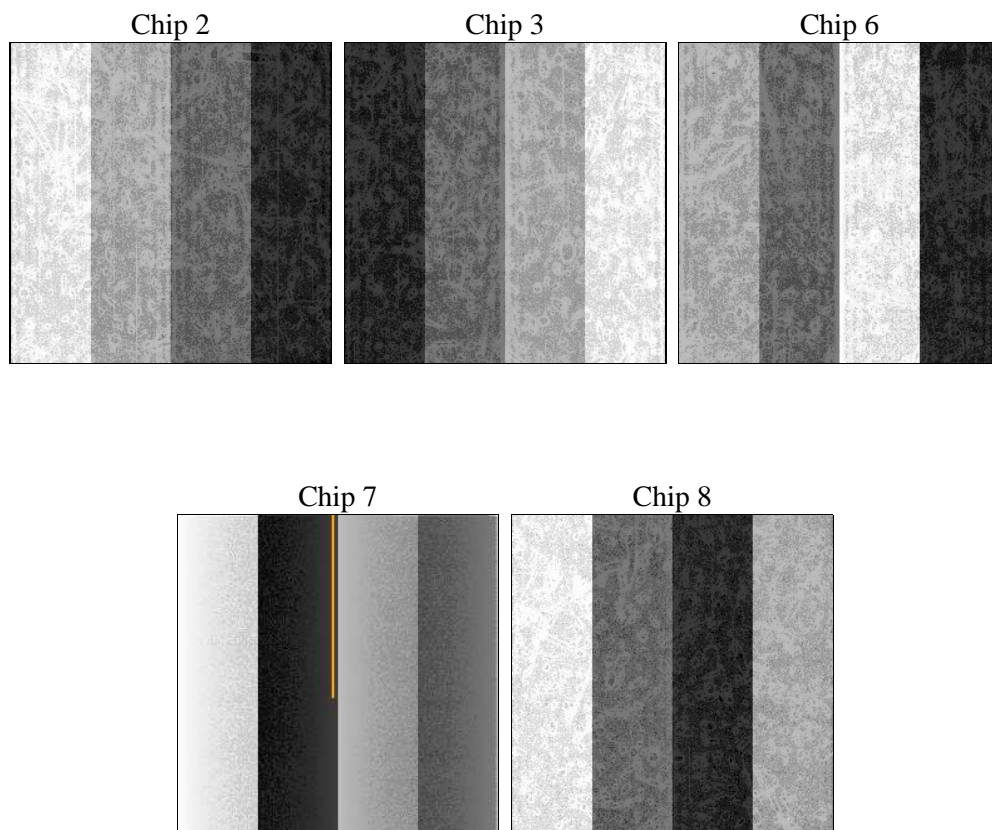
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3065.9000235796	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3065.9000235796	Sum of GTIs [s]
date	2014-12-10T16:29:01	Date and time of file creation	ontime3	3065.9000235796	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3065.9000235796	Sum of GTIs [s]
			ontime7	3065.9000235796	Sum of GTIs [s]
			ontime8	3065.9000235796	Sum of GTIs [s]
			l1events	84202	Number of level 1 events

2.1.4 Events

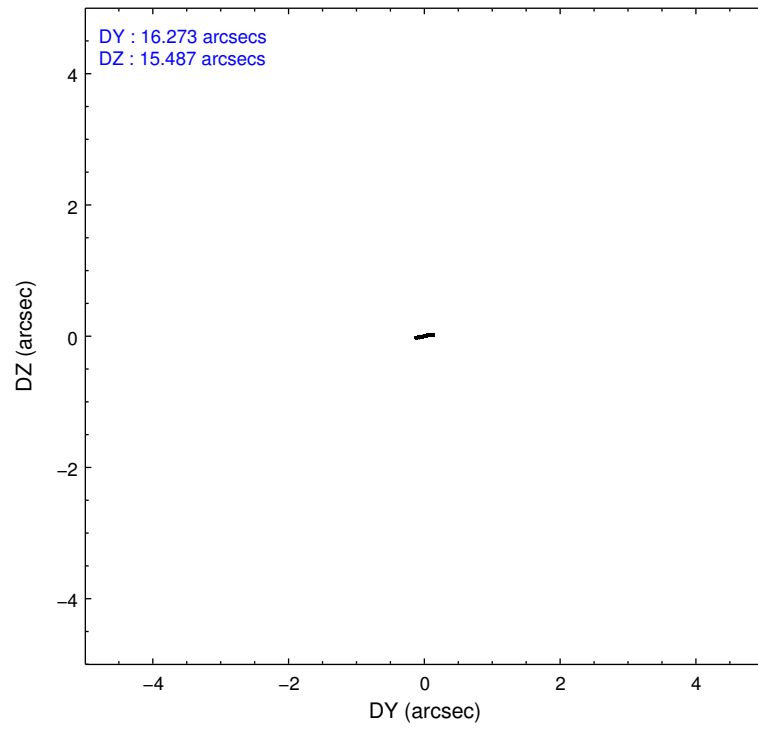
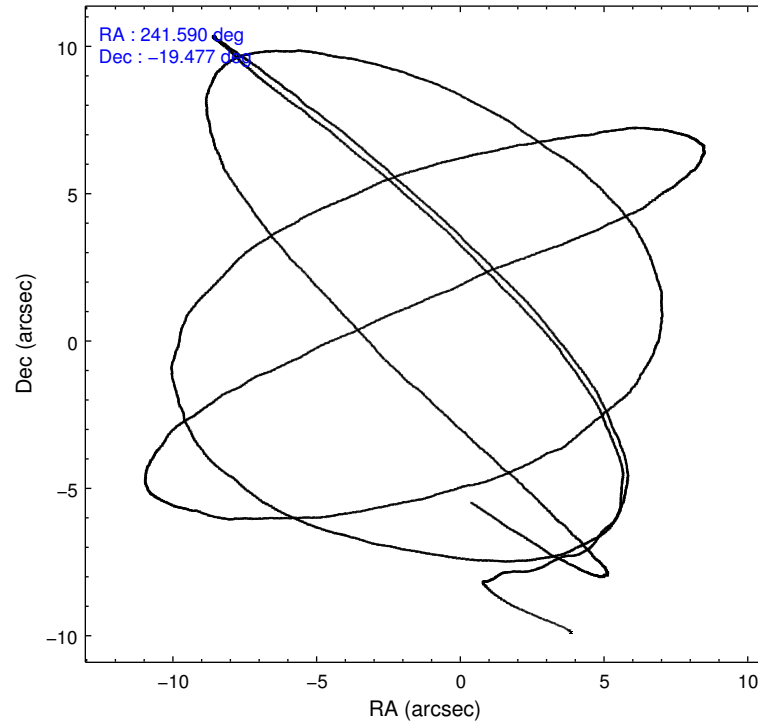
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14989	15314	14631	20735	18533
rejected events	13282	13740	12775	11778	14078
rejected %	88%	89%	87%	56%	75%

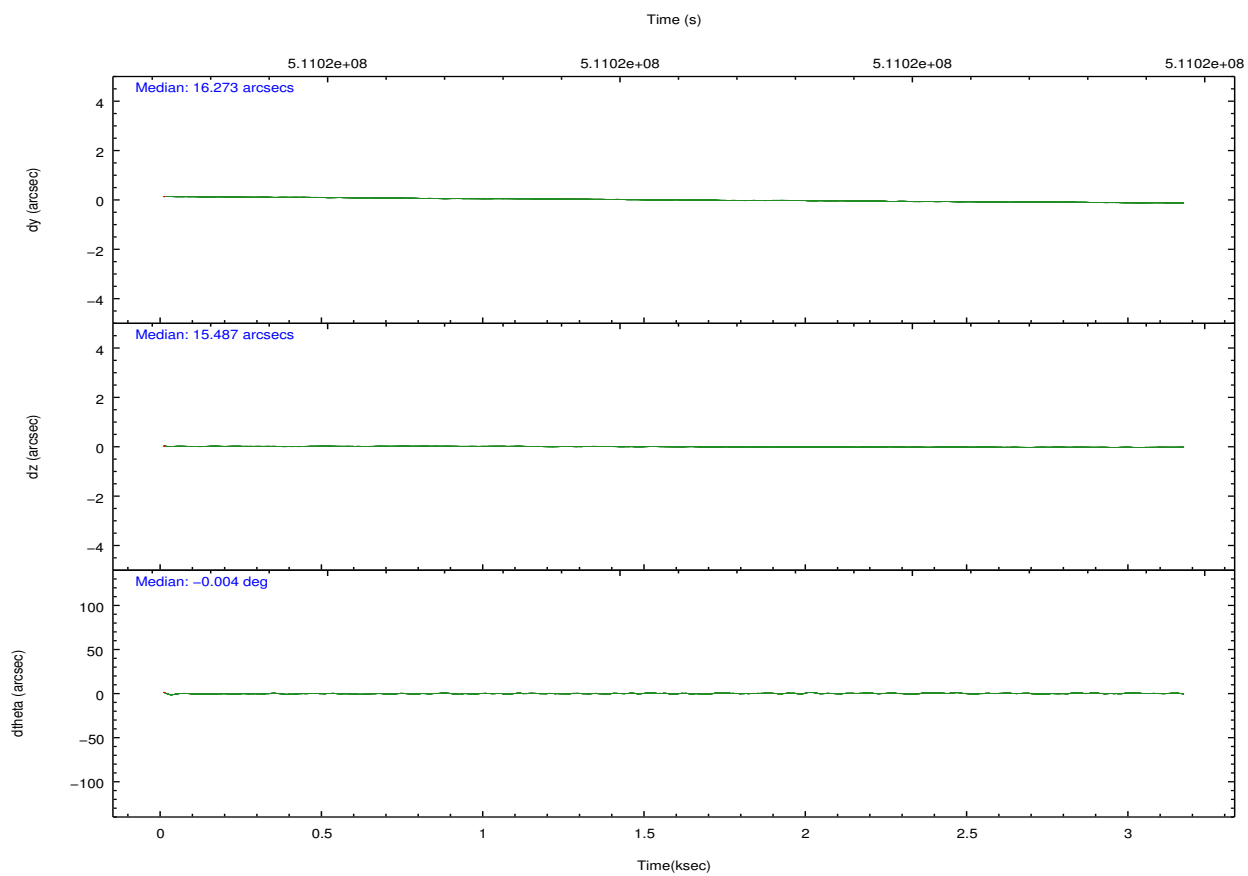
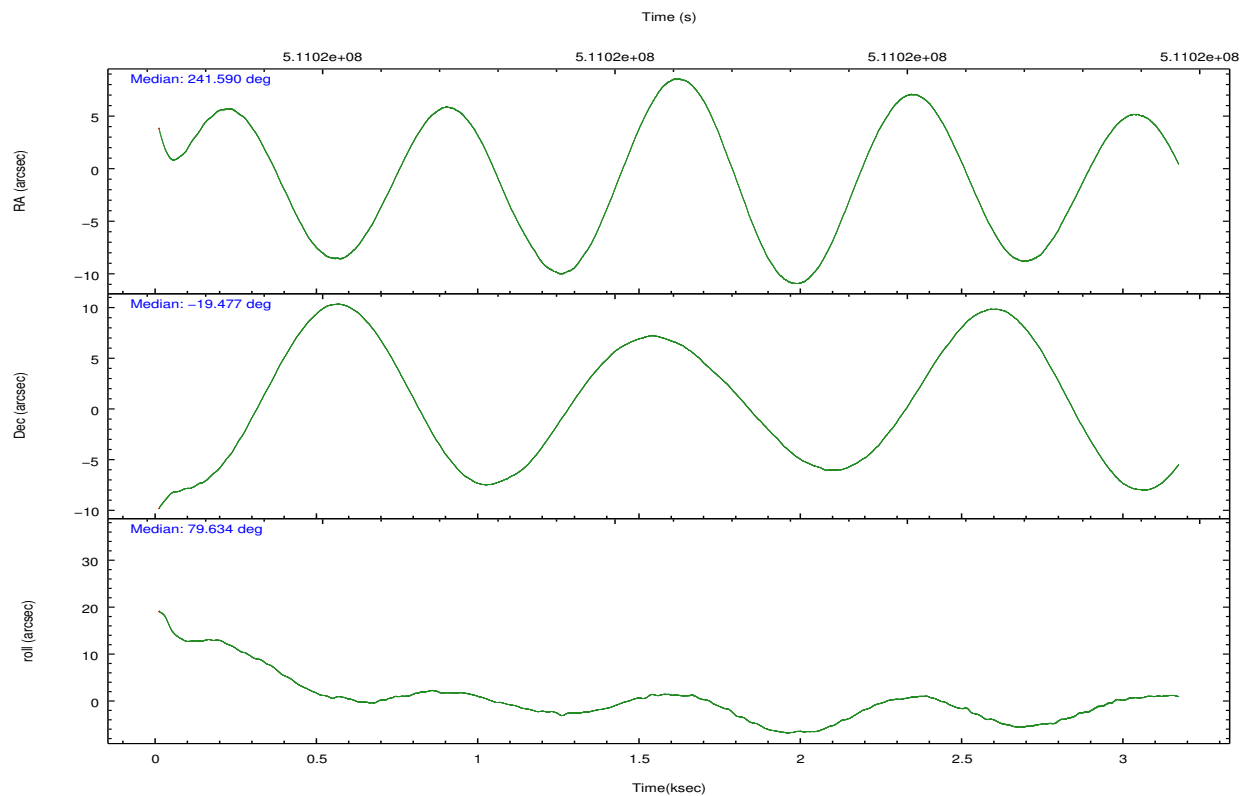
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	661	596	656	820	1291
	4%	3%	4%	3%	6%
grade 1 events	955	4	6	16	14
	6%	0%	0%	0%	0%
grade 2 events	369	326	427	1873	1156
	2%	2%	2%	9%	6%
grade 3 events	160	141	168	722	450
	1%	0%	1%	3%	2%
grade 4 events	172	177	166	721	371
	1%	1%	1%	3%	2%
grade 5 events	641	782	793	2034	1106
	4%	5%	5%	9%	5%
grade 6 events	346	335	441	4840	1191
	2%	2%	3%	23%	6%
grade 7 events	11685	12953	11974	9709	12954
	77%	84%	81%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	241.599435	241.5894816446998	Subarray requested	NONE	NONE
[deg] Pointing Dec	-19.502596	-19.47713177754135	Alternating exposures requested	N	N
[deg] Pointing Roll	79.490977	79.64428446917736	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	511017773.184000	511016828.82934			
Observation start date	2014-03-12T13:21:46	2014-03-12T13:07:08			
[s] Observation end time (MET)	511020773.184000	511021664.26711			
Observation end date	2014-03-12T14:11:46	2014-03-12T14:27:44			
Read mode	TIMED	TIMED			

2.3 Aspect



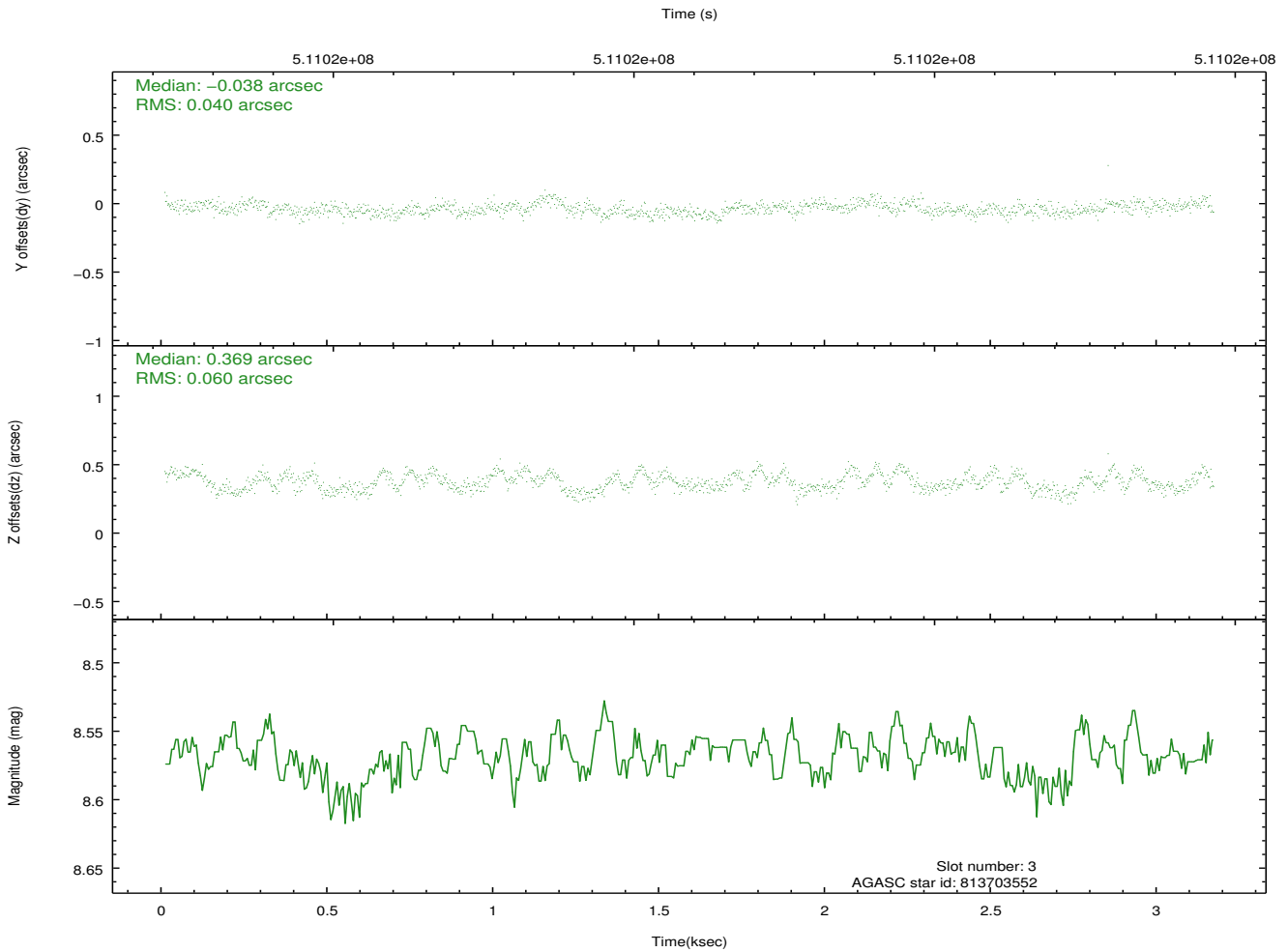
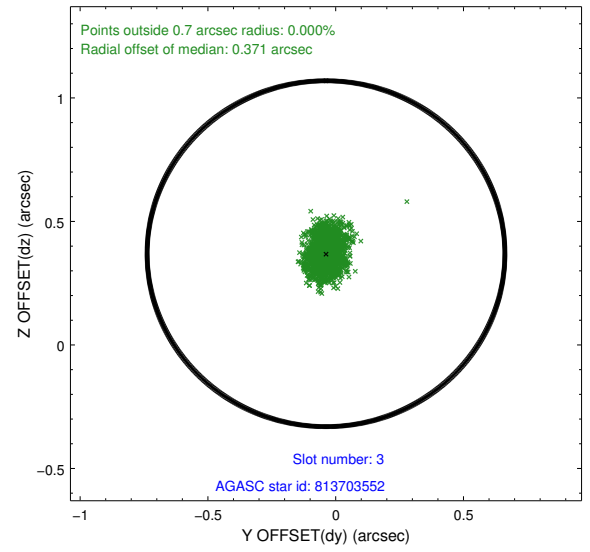
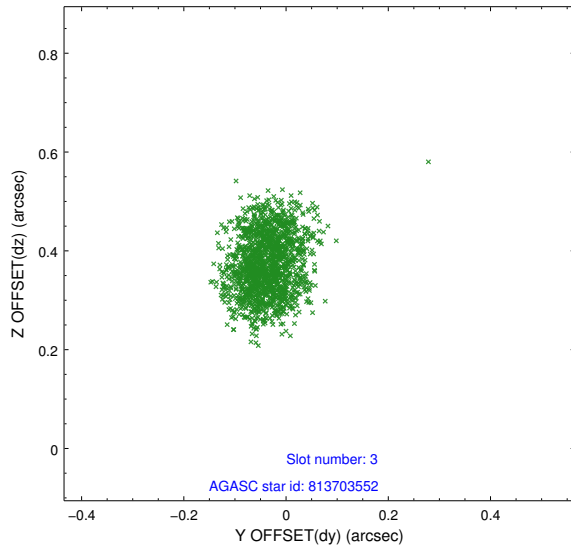


Slot Statistics

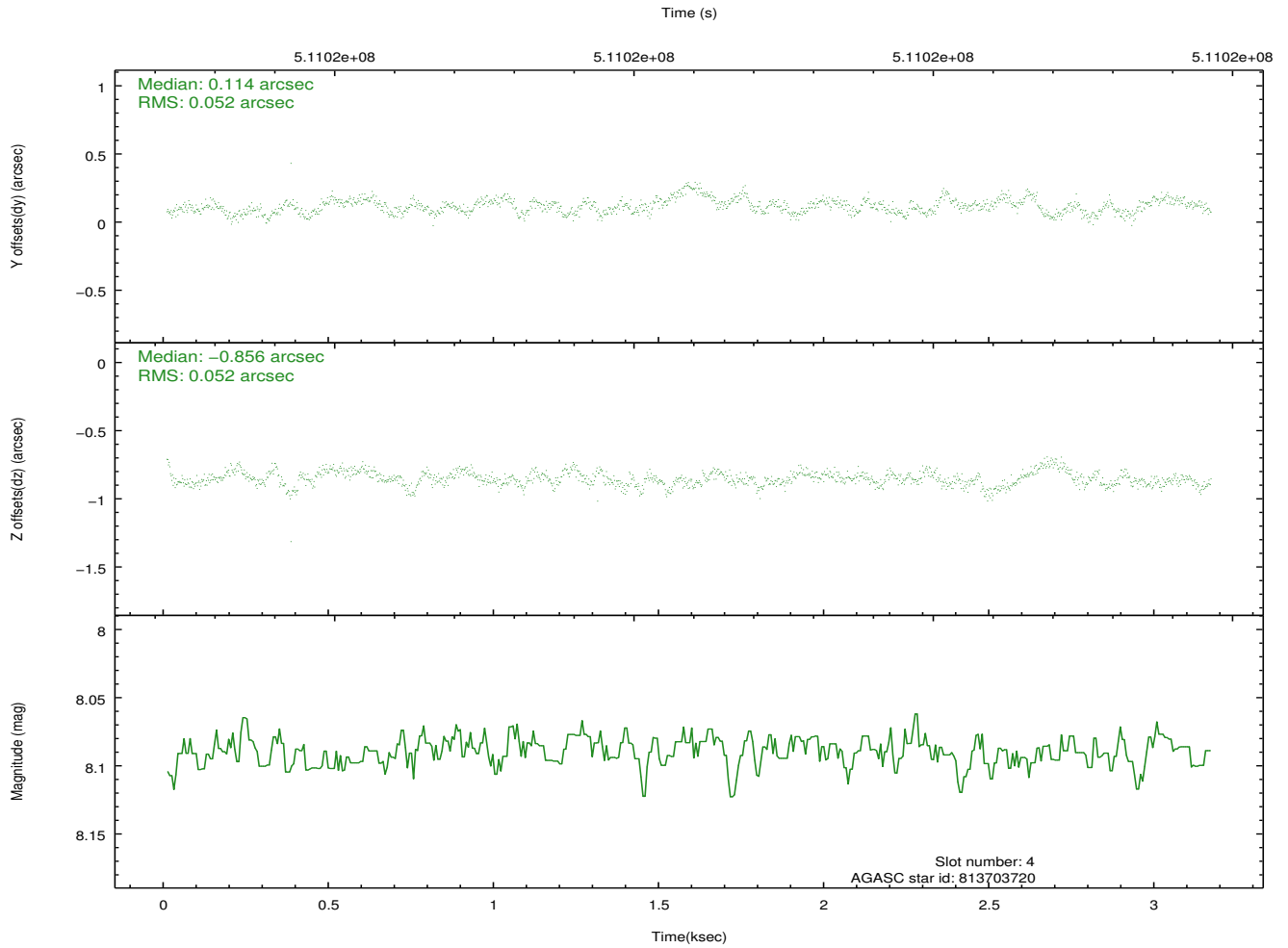
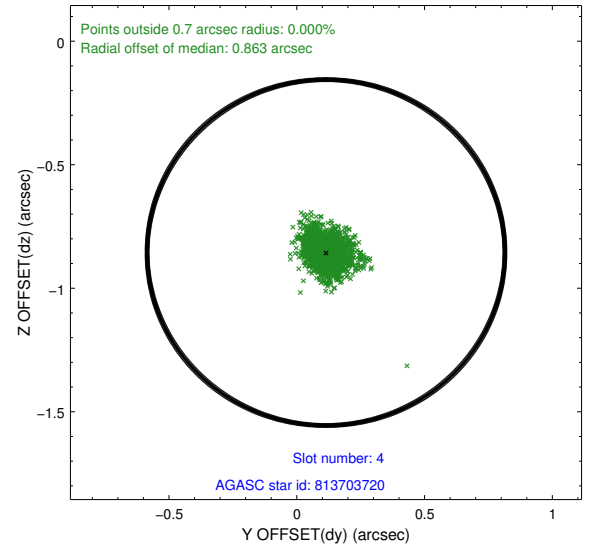
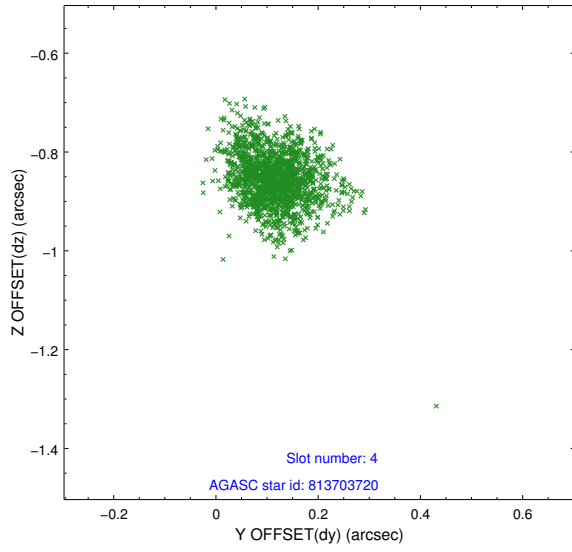
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	772	-0.132	-0.023	0.007	0.011	0.000000	0.000000	-769.40	-1736.86
1	FID		ACIS-S-4	7.18	772	0.261	0.070	0.005	0.009	0.000000	0.000000	2143.33	169.65
2	FID		ACIS-S-5	7.21	771	-0.160	-0.038	0.007	0.011	0.000000	0.000000	-1819.70	165.48
3	GUIDE	used	813703552	8.57	1543	-0.038	0.369	0.078	0.121	241.959292	-19.989482	-1501.76	-1516.01
4	GUIDE	used	813703720	8.09	1543	0.114	-0.856	0.077	0.129	240.932508	-19.575204	-674.53	2174.65
5	GUIDE	used	813836488	8.11	1543	-0.125	0.253	0.084	0.147	242.260837	-18.995570	2201.19	-1878.64
6	GUIDE	used	813706888	8.14	1543	0.163	-0.225	0.097	0.156	241.000992	-19.767478	-1309.26	1818.17
7	GUIDE	used	813832720	8.40	1542	-0.126	0.446	0.083	0.138	242.337034	-19.457210	611.81	-2430.24

2.4 Star Slots

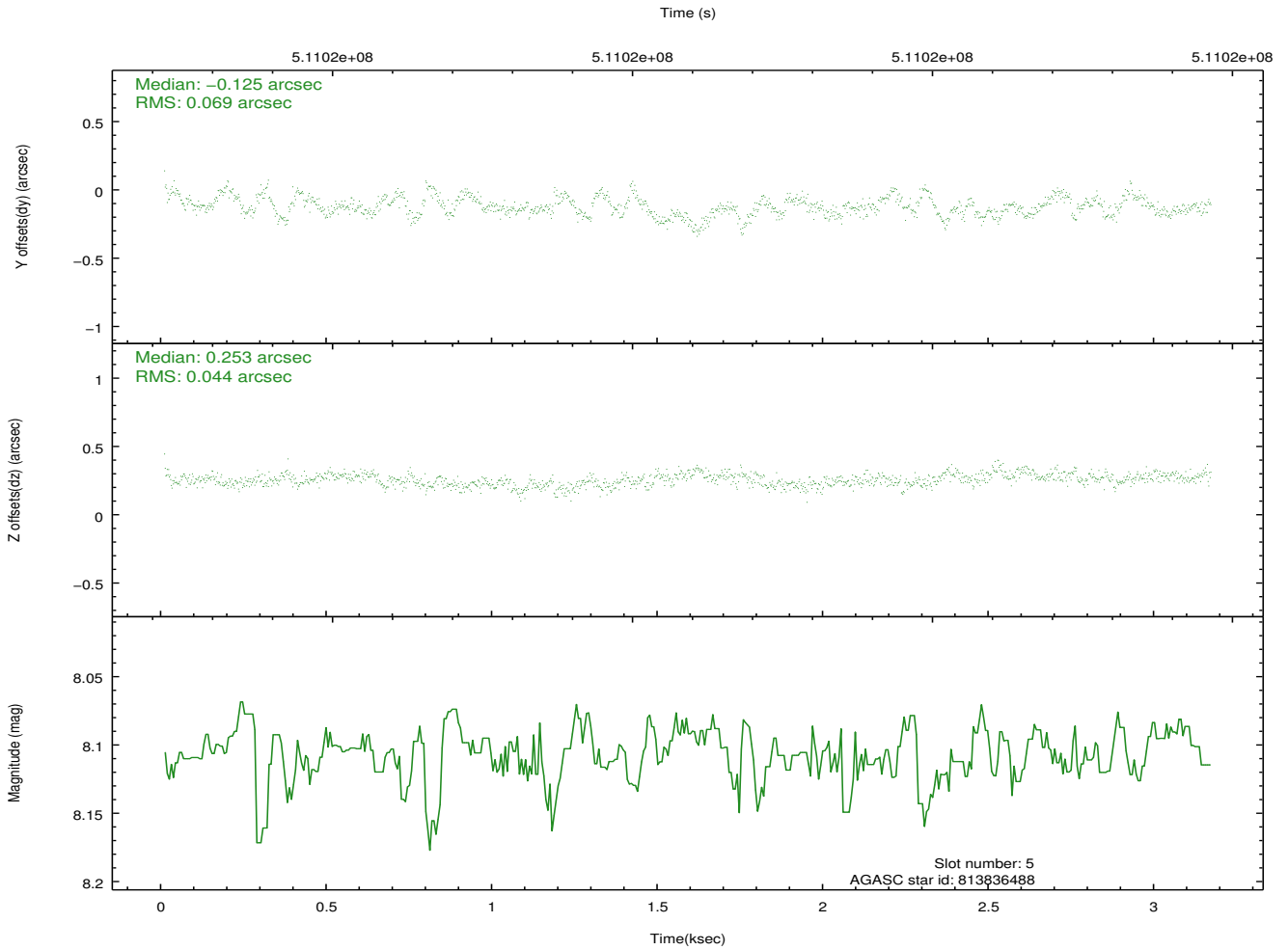
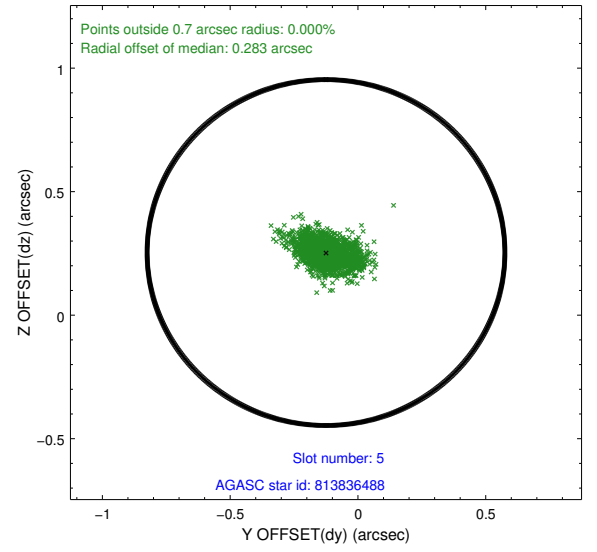
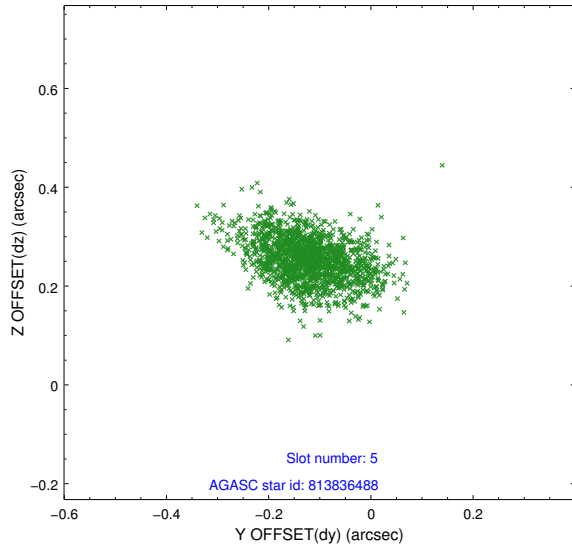
2.4.1 Slot 3



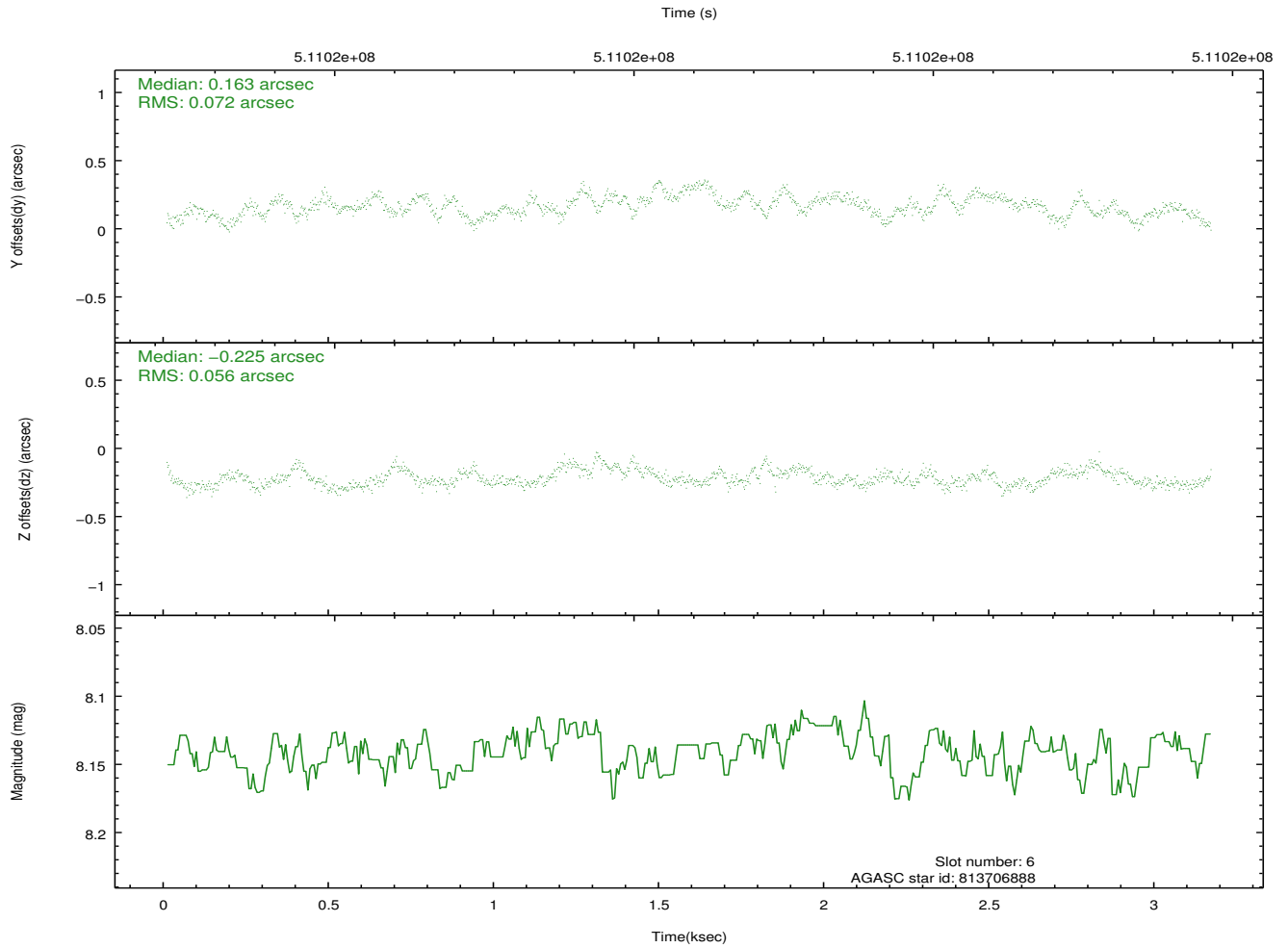
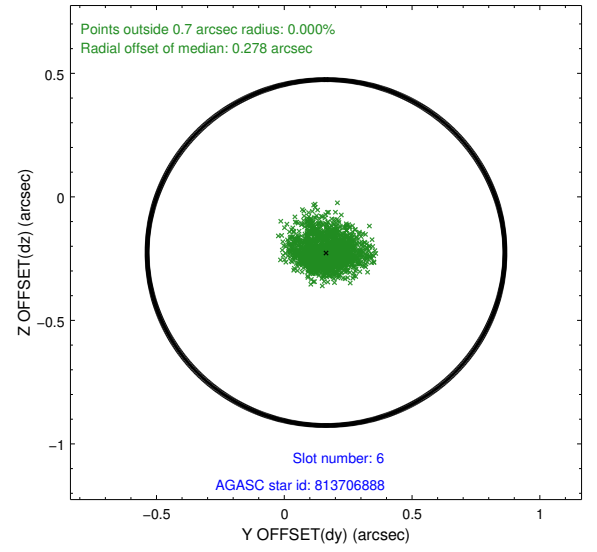
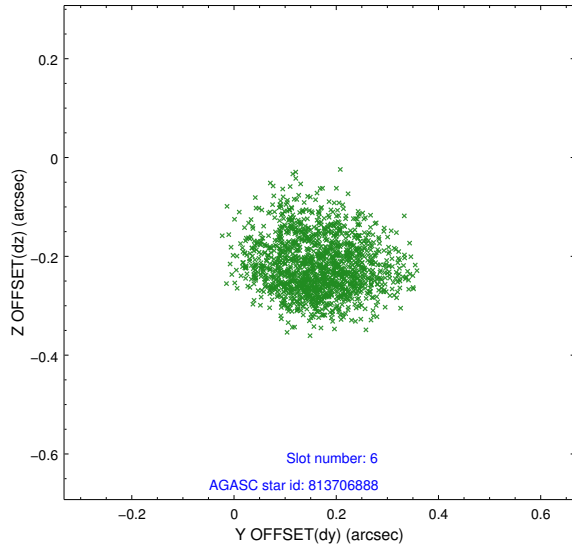
2.4.2 Slot 4



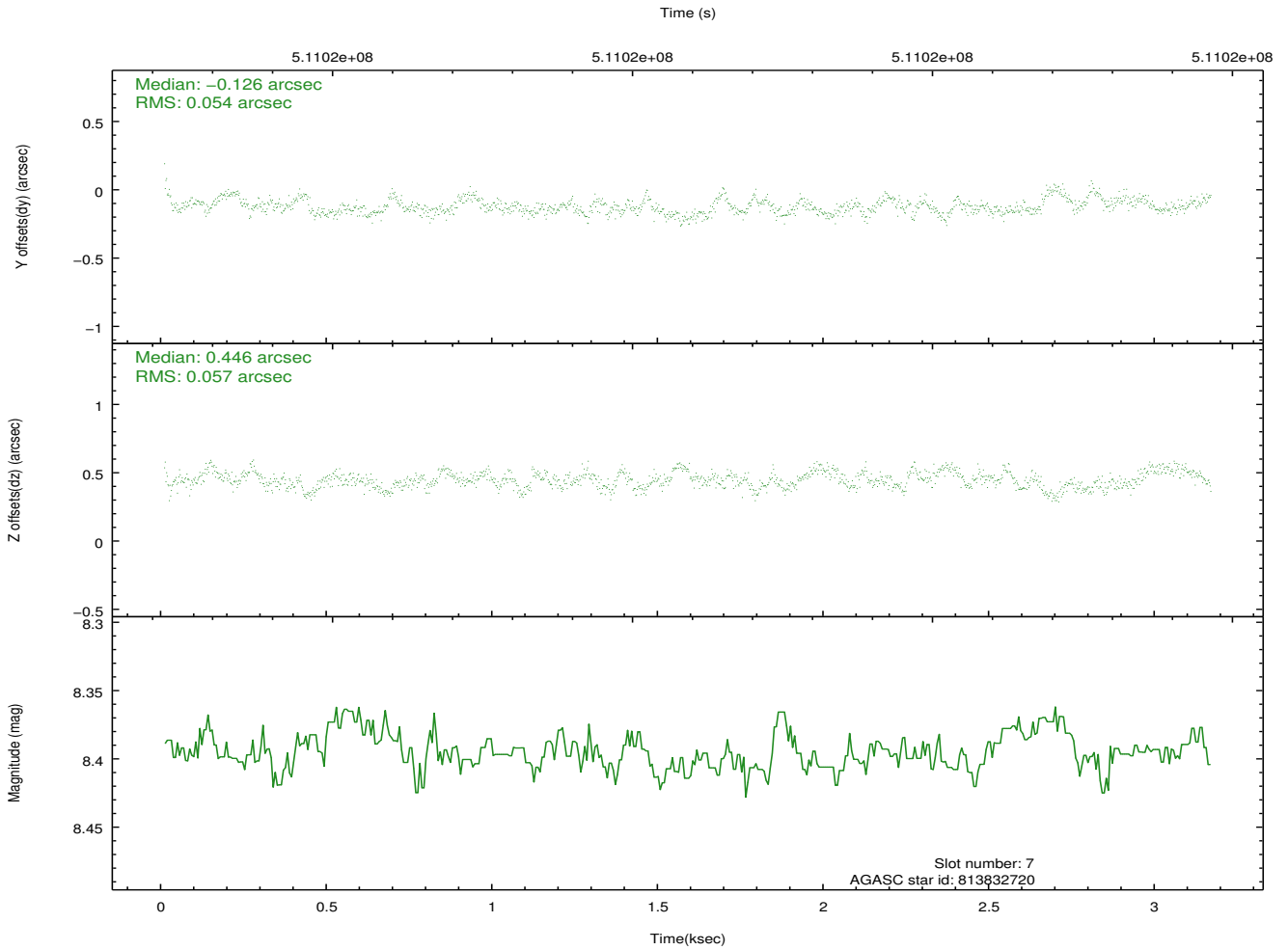
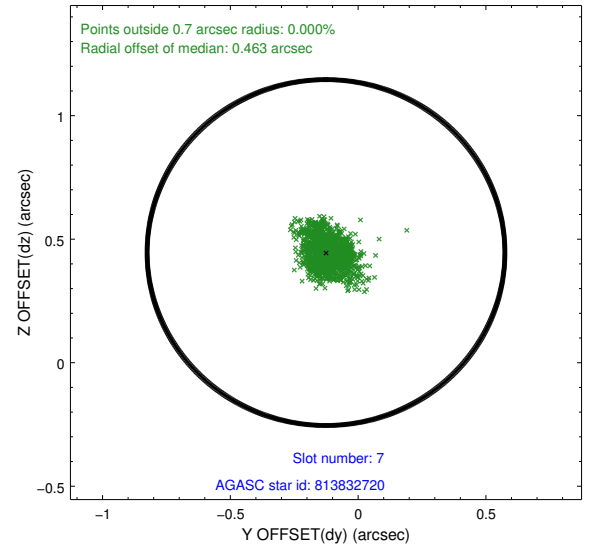
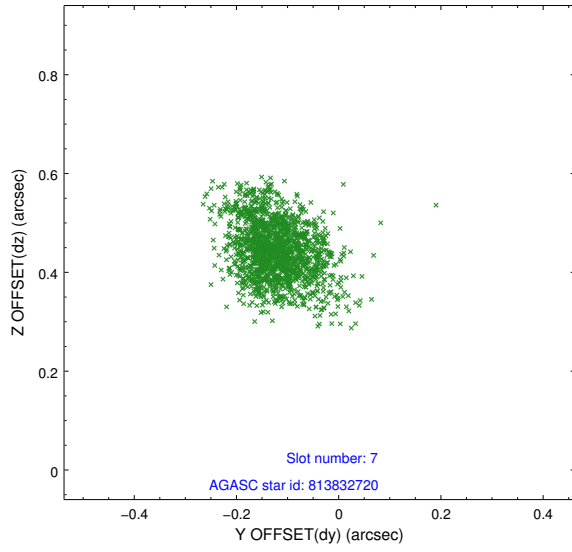
2.4.3 Slot 5



2.4.4 Slot 6

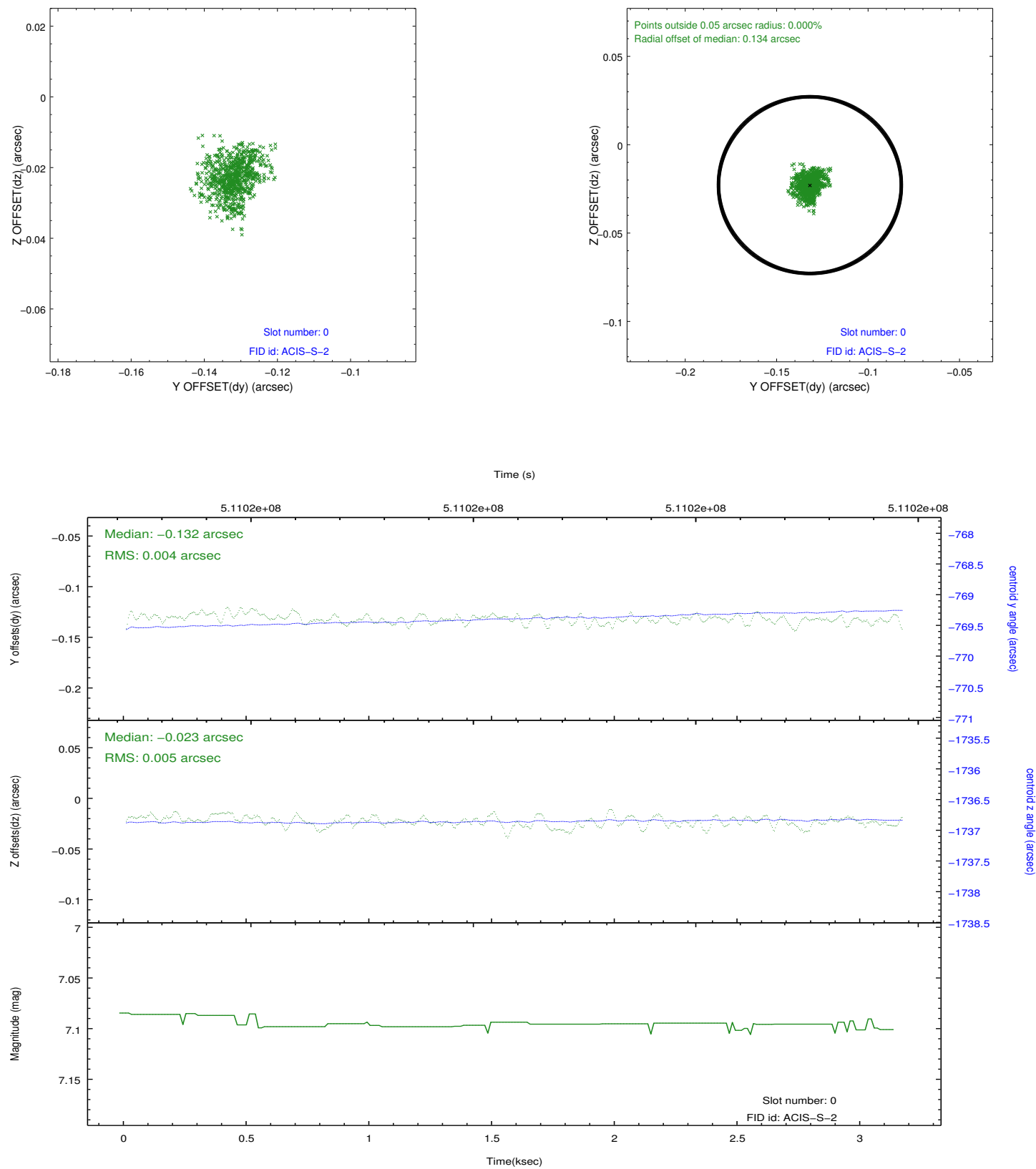


2.4.5 Slot 7

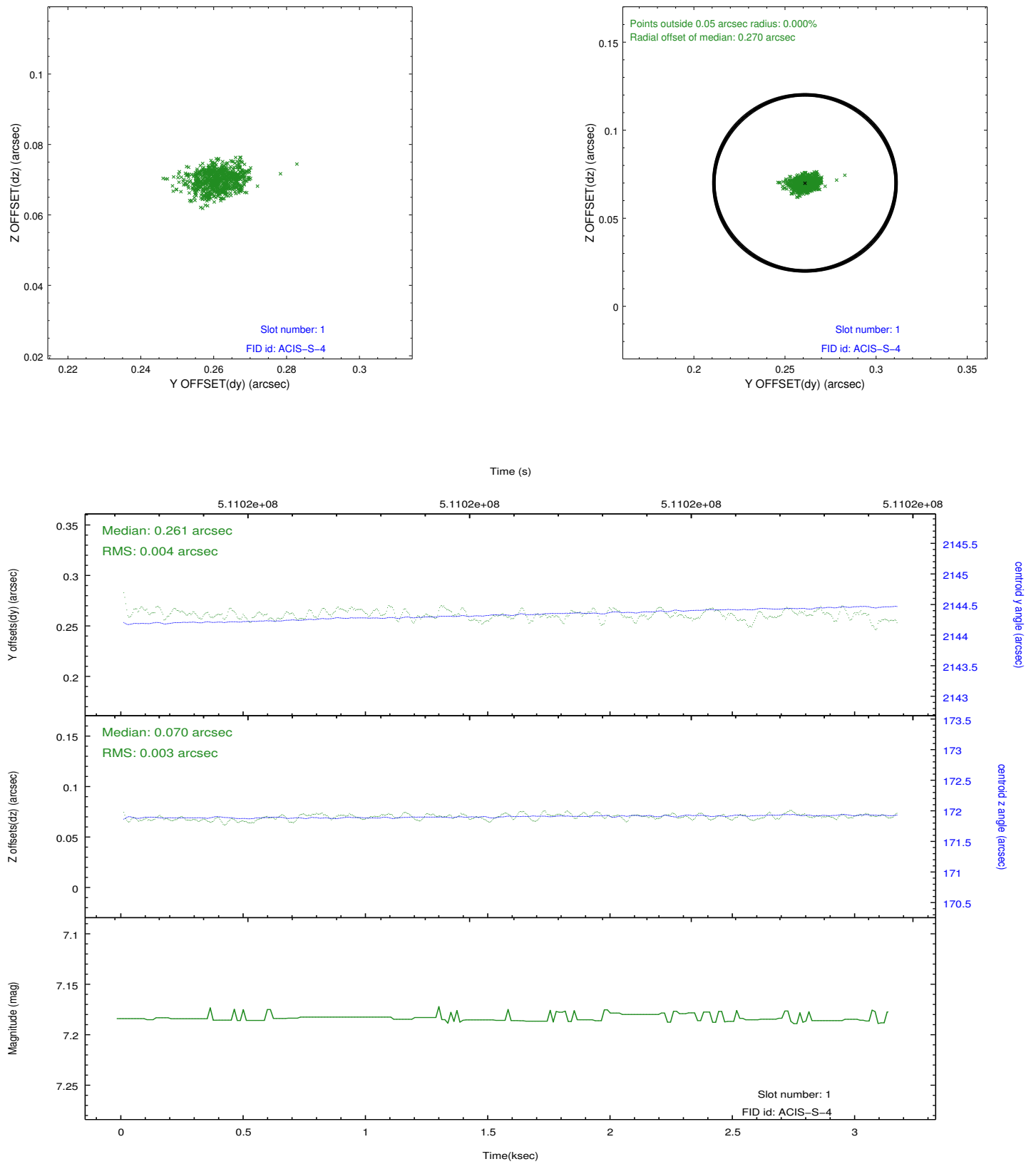


2.5 FID Slots

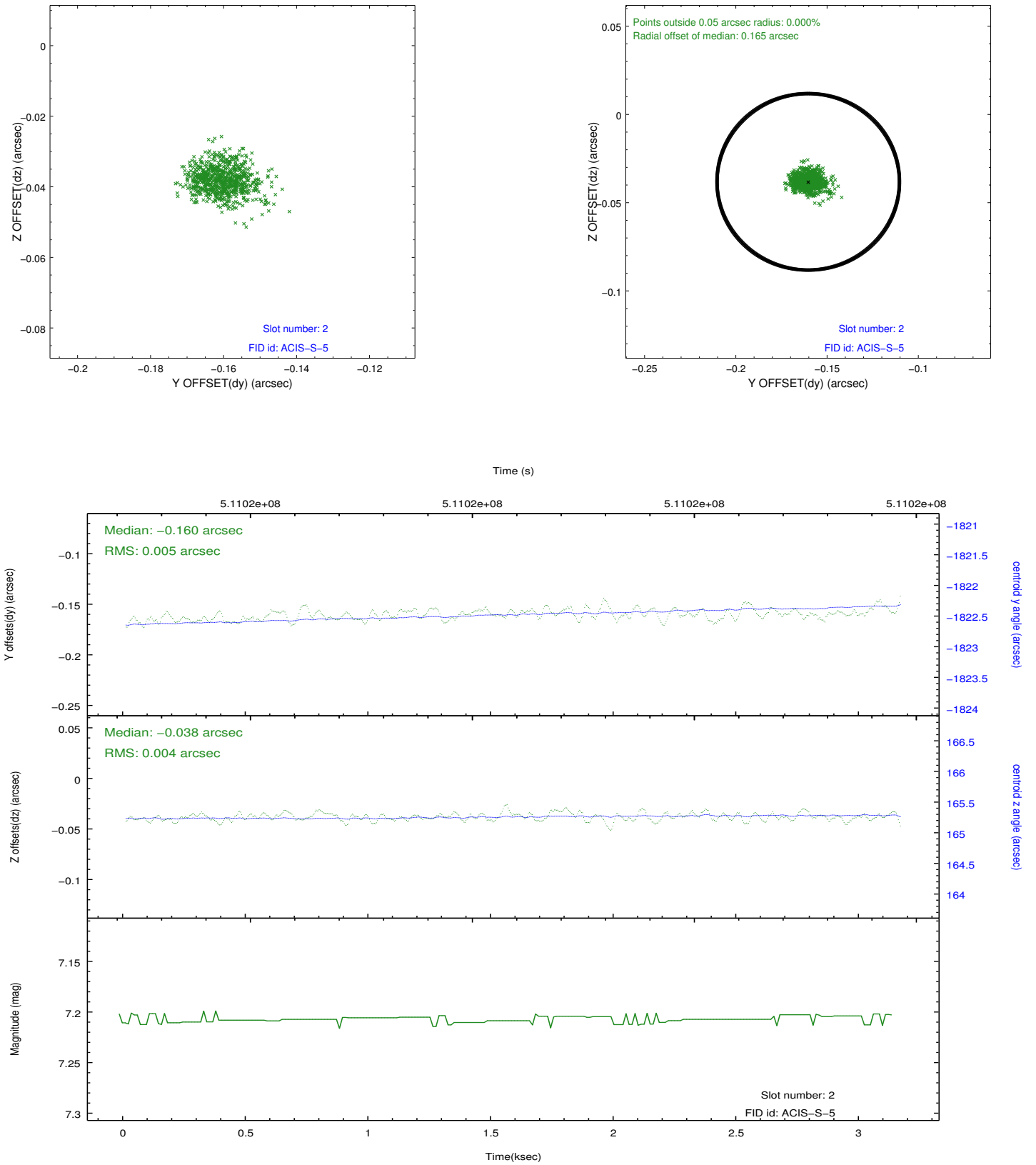
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0659000235796

A.2 Comments

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.