

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3324 - L2 Version 3
Chandra X-Ray Center

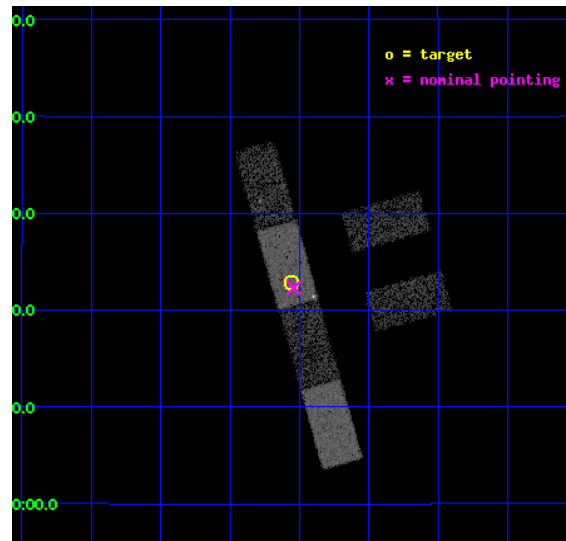
L2 Processing Date : Oct 11 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

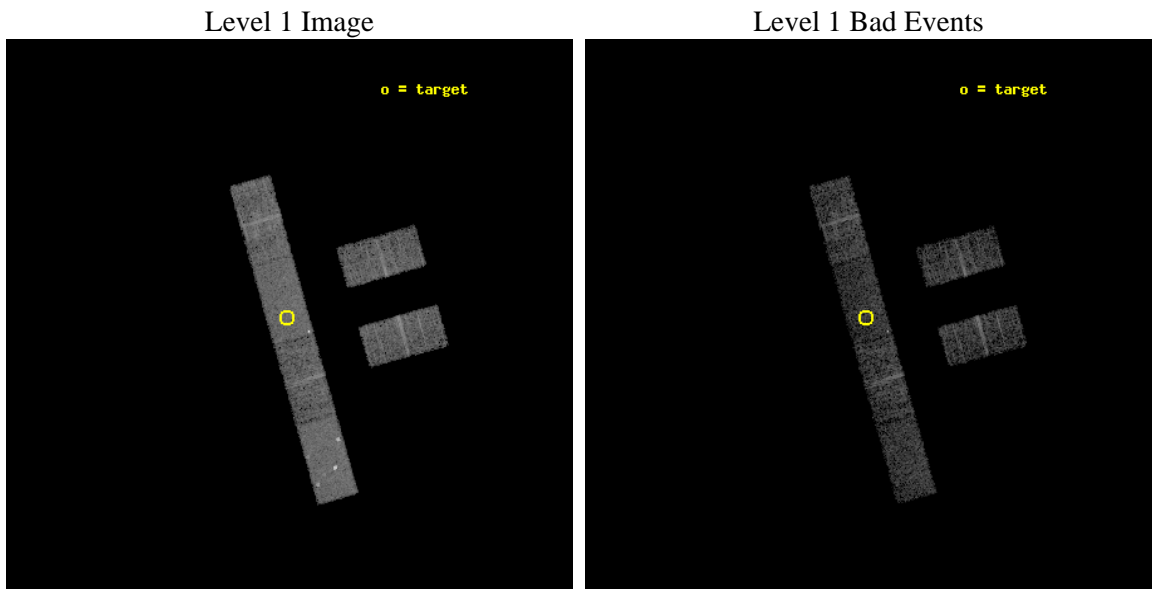
seq_num	900163	Sequence number
obs_id	3324	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1231.5+1422	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.889583	Observer's specified target RA [deg]
dec_targ	14.380556	Observer's specified target Dec [deg]
ra_nom	187.88515271407	Nominal RA [deg]
dec_nom	14.371815335596	Nominal Dec [deg]
roll_nom	254.27820848465	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4661.2156968713	Sum of GTIs [s]
livetime	4557.3090505195	Livetime [s]
ontime2	4661.2567368746	Sum of GTIs [s]
ontime3	4661.0925768614	Sum of GTIs [s]
ontime5	4661.174656868	Sum of GTIs [s]
ontime6	4661.1336168647	Sum of GTIs [s]
ontime7	4661.2156968713	Sum of GTIs [s]
ontime8	4661.0515368879	Sum of GTIs [s]
l2events	33248	Number of level 2 events



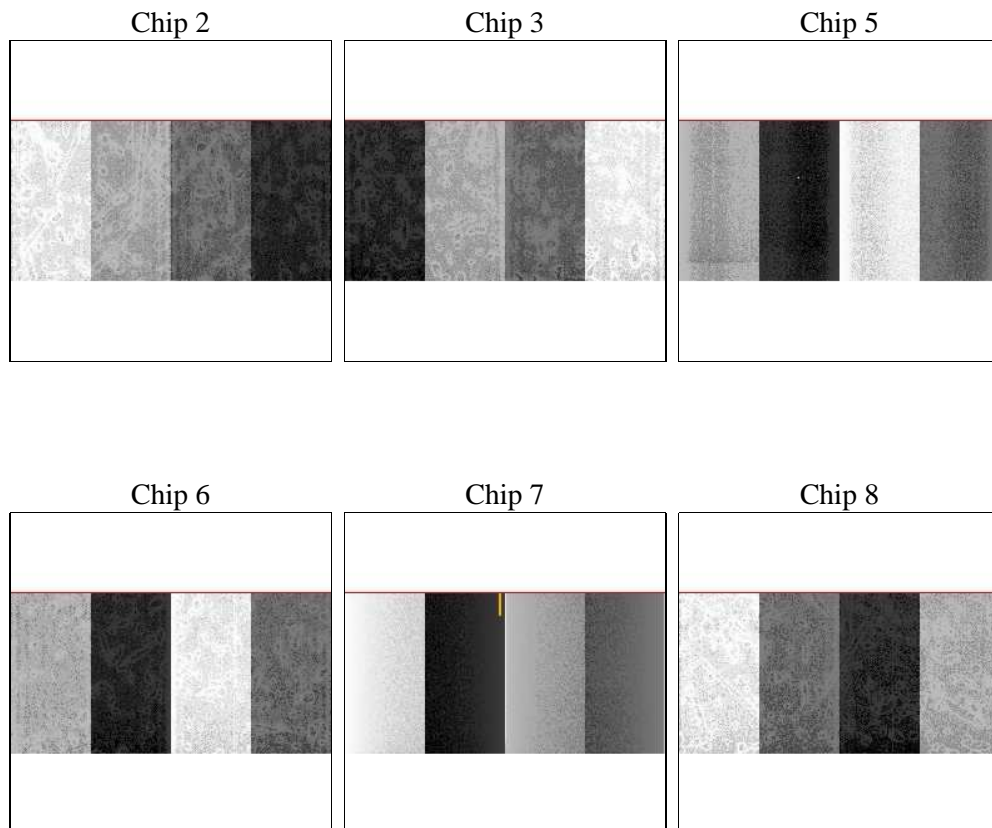
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4661.2156968713	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	4661.2567368746	Sum of GTIs [s]
date	2012-10-11T15:43:05	Date and time of file creation	ontime3	4661.0925768614	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4661.174656868	Sum of GTIs [s]
			ontime6	4661.1336168647	Sum of GTIs [s]
			ontime7	4661.2156968713	Sum of GTIs [s]
			ontime8	4661.0515368879	Sum of GTIs [s]
			l1events	127613	Number of level 1 events

2.1.4 Events

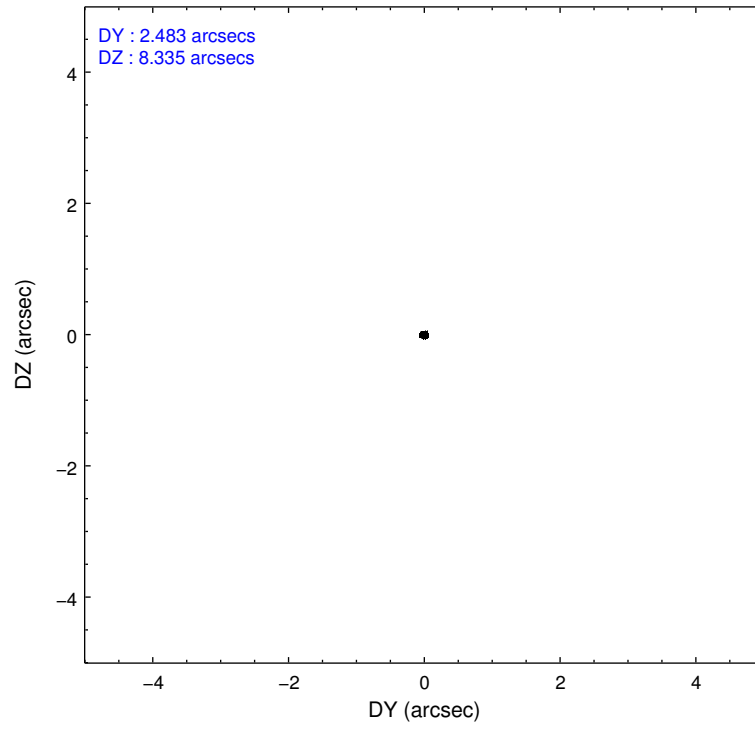
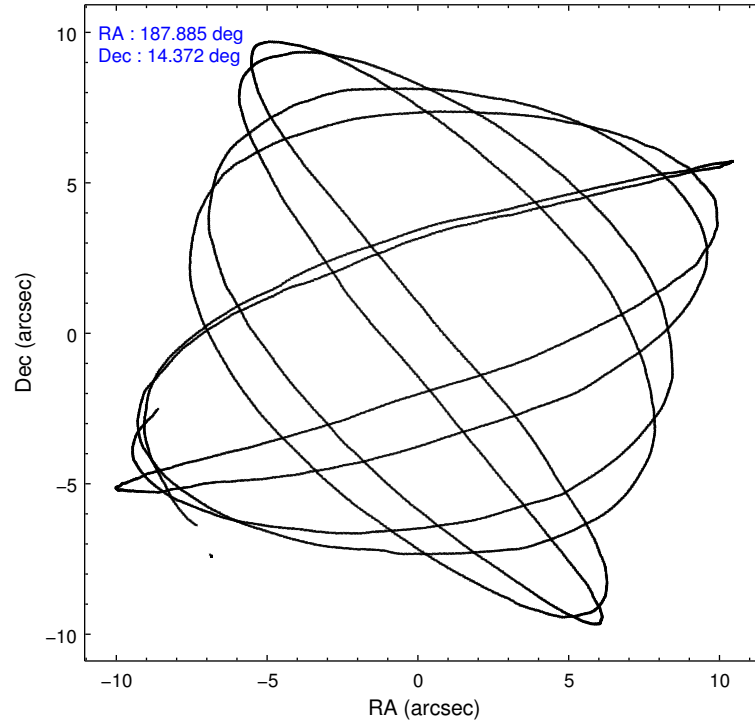
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17724	17084	27964	17598	24888	22355
rejected events	15248	14699	11876	15041	11905	16501
rejected %	86%	86%	42%	85%	47%	73%

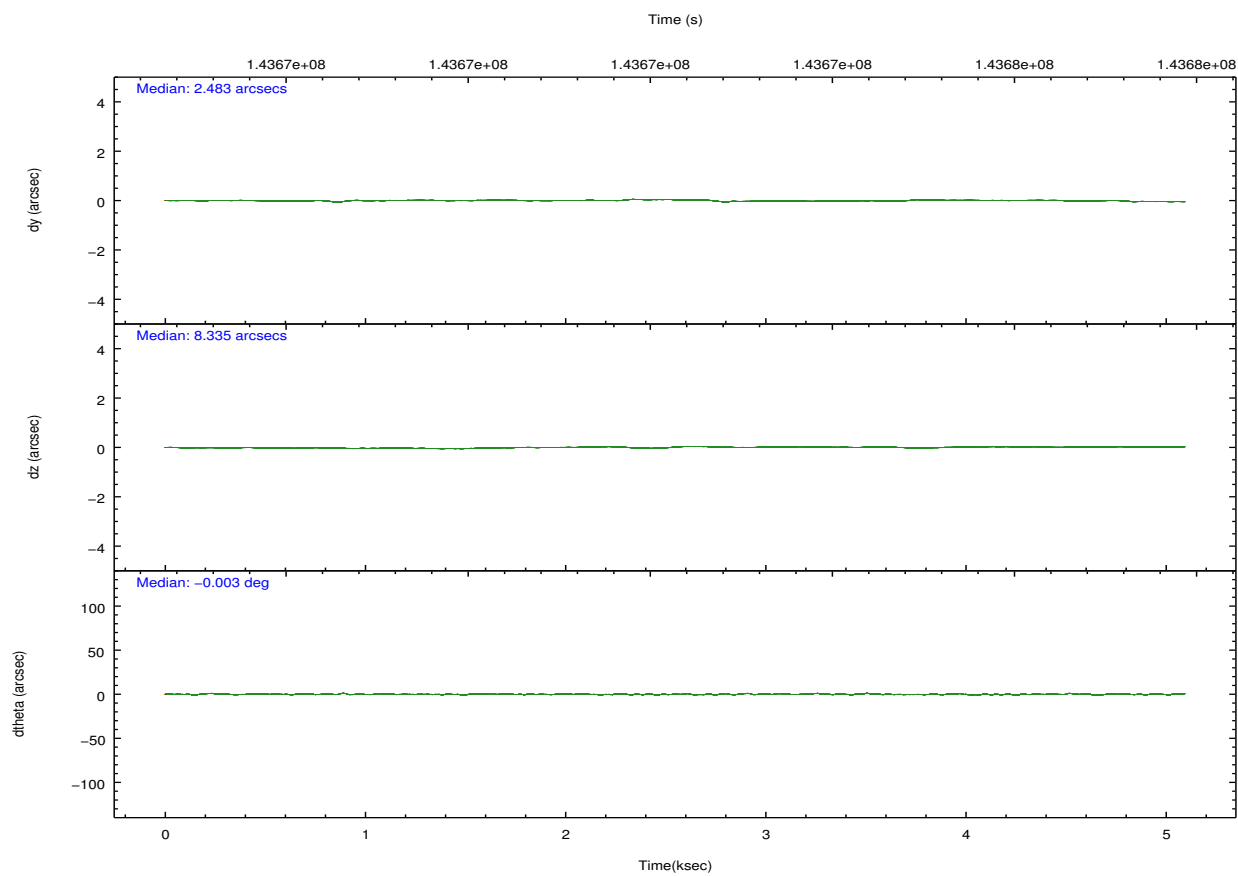
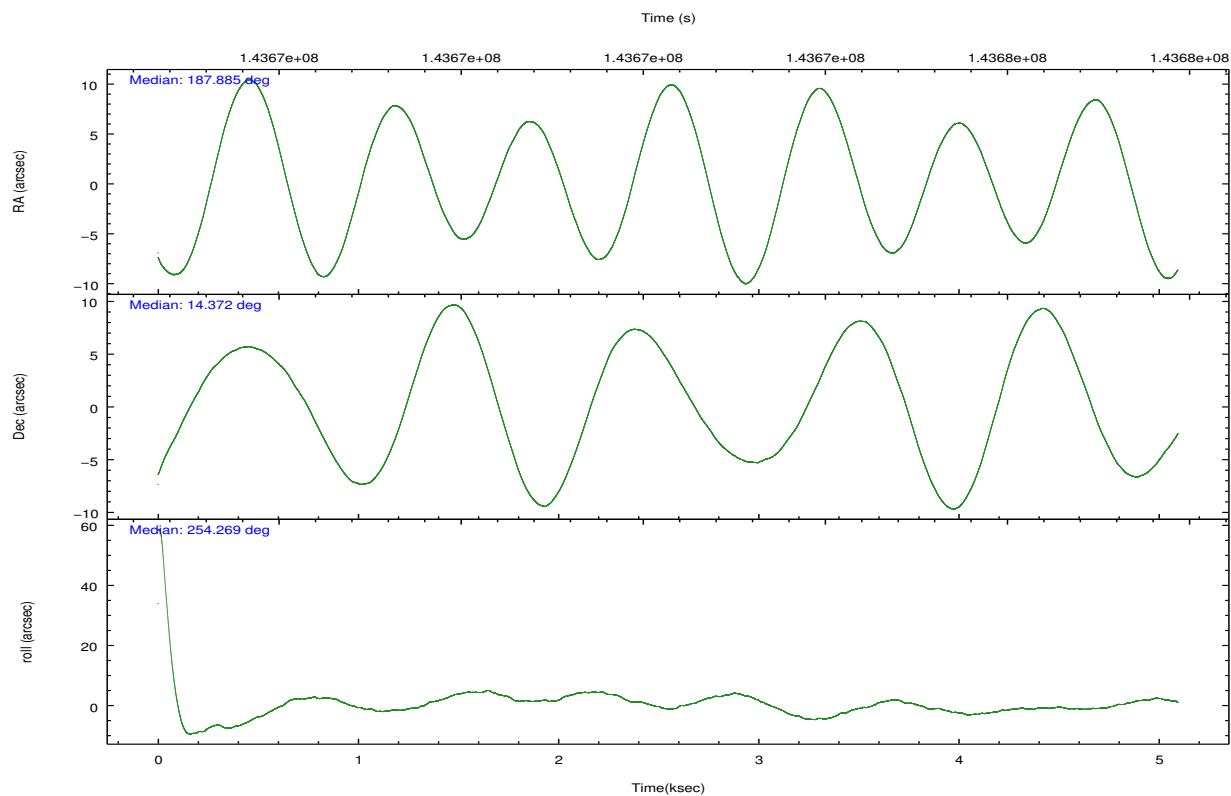
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1168	1122	5379	1186	1760	2180
	6%	6%	19%	6%	7%	9%
grade 1 events	6	8	67	7	94	15
	0%	0%	0%	0%	0%	0%
grade 2 events	466	451	3597	460	2733	1031
	2%	2%	12%	2%	10%	4%
grade 3 events	203	227	690	226	1307	722
	1%	1%	2%	1%	5%	3%
grade 4 events	208	226	686	260	1283	650
	1%	1%	2%	1%	5%	2%
grade 5 events	554	571	1805	642	2128	835
	3%	3%	6%	3%	8%	3%
grade 6 events	432	359	5743	425	5903	1271
	2%	2%	20%	2%	23%	5%
grade 7 events	14687	14120	9997	14392	9680	15651
	82%	82%	35%	81%	38%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.877929	187.8851527140669	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	14.398151	14.37181533559557	Subarray start row	257	257
[deg] Pointing Roll	254.123196	254.2782084846509	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	143670785.184000	143670404.80793			
Observation start date	2002-07-21T20:32:01	2002-07-21T20:26:44			
[s] Observation end time (MET)	143675685.184000	143676177.09567			
Observation end date	2002-07-21T21:53:41	2002-07-21T22:02:57			
Read mode	TIMED	TIMED			

2.3 Aspect



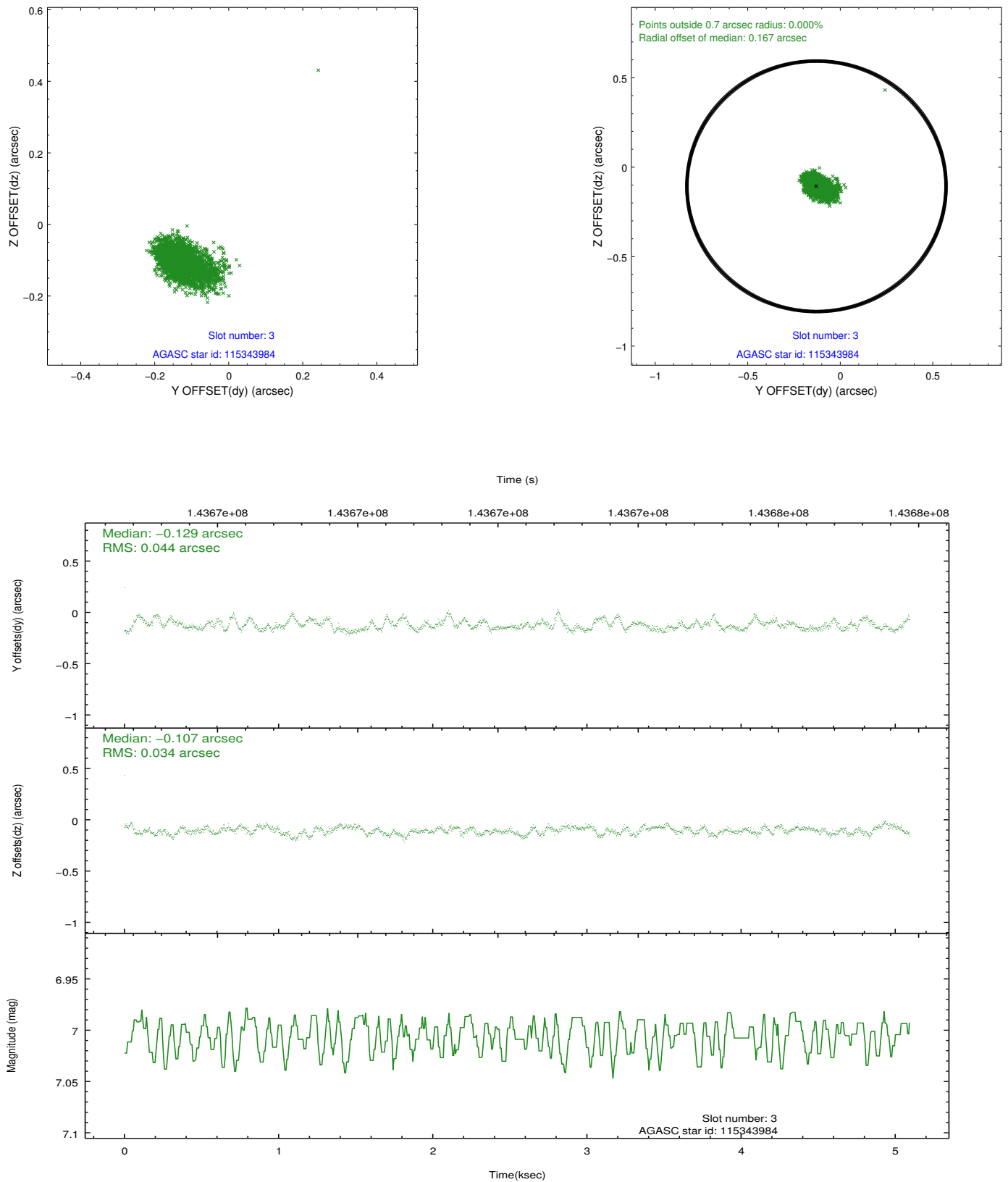


Slot Statistics

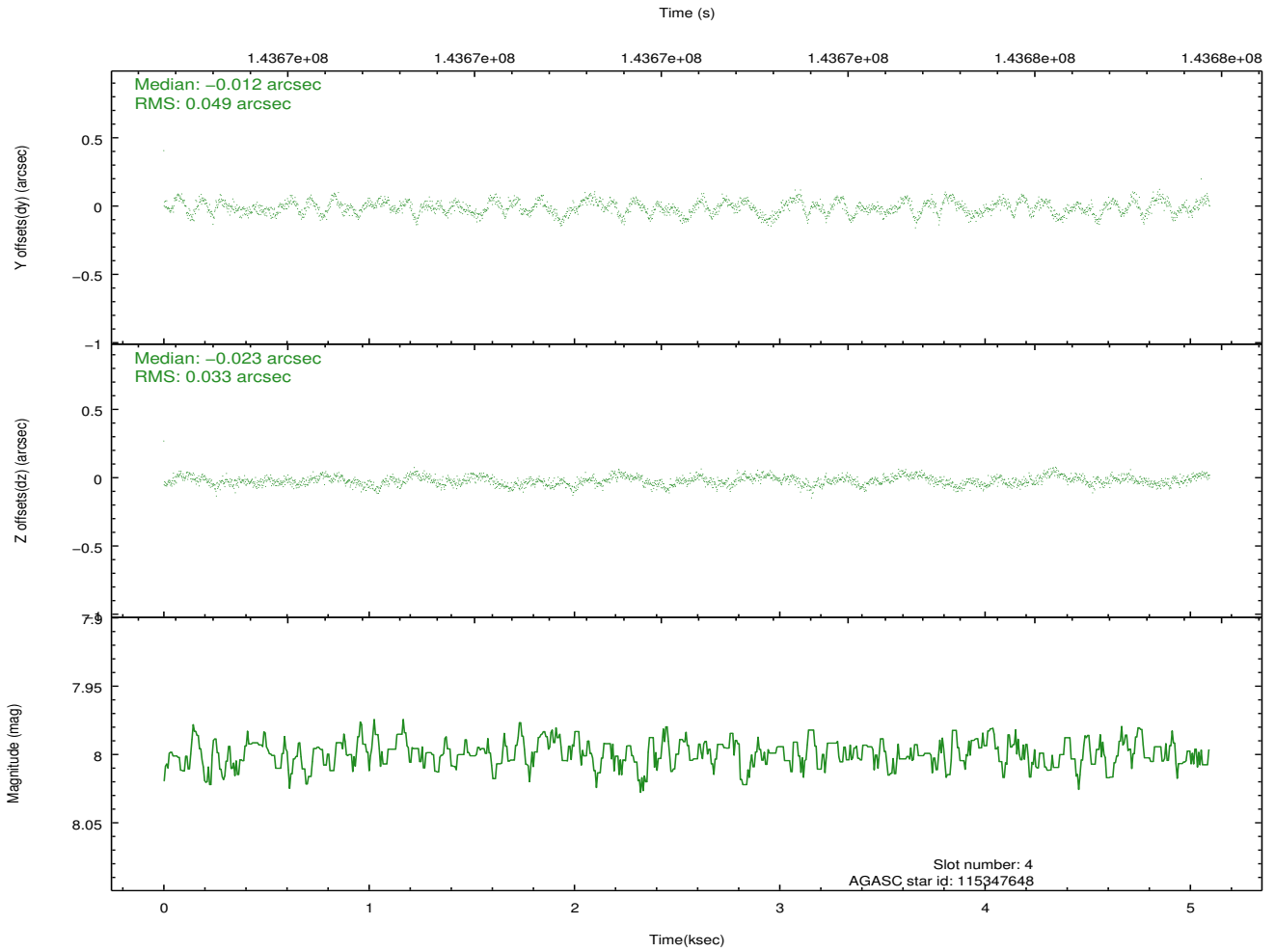
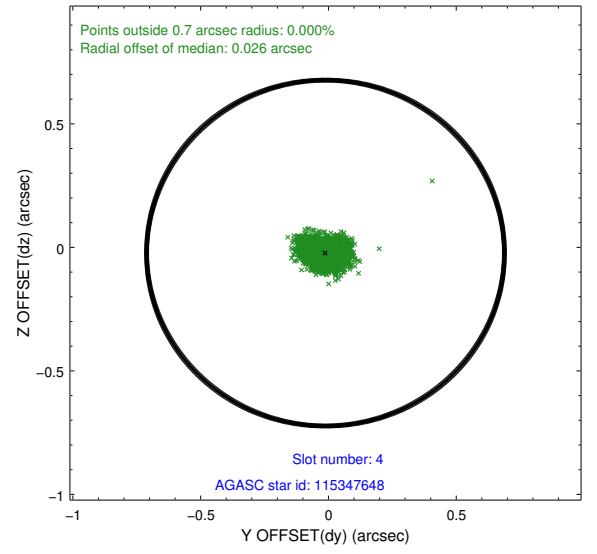
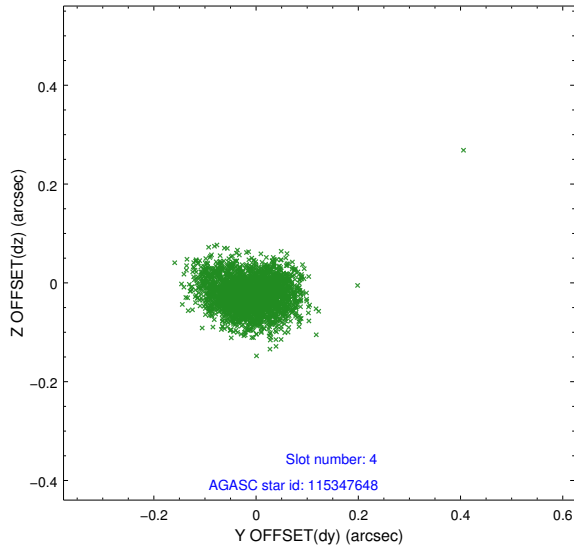
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1243	-0.007	0.003	0.007	0.011	0.000000	0.000000	-755.13	-1729.47
1	FID	ACIS-S-4	7.19	1243	-0.042	0.003	0.005	0.011	0.000000	0.000000	2157.59	177.75
2	FID	ACIS-S-5	7.24	1243	0.018	0.003	0.006	0.011	0.000000	0.000000	-1806.40	172.82
3	GUIDE	115343984	7.01	2486	-0.129	-0.107	0.056	0.097	187.445111	14.650185	-460.61	-1699.08
4	GUIDE	115347648	8.00	2485	-0.012	-0.023	0.063	0.100	187.273687	13.950334	2126.55	-1590.94
5	GUIDE	115350296	9.11	2485	0.201	-0.130	0.084	0.141	187.140806	13.950701	2252.37	-2038.27
6	GUIDE	115343960	8.74	2485	-0.037	0.116	0.086	0.135	188.590007	14.643744	-1531.24	2141.51
7	GUIDE	115347720	9.49	2485	-0.018	0.140	0.113	0.181	188.304790	13.999135	972.50	1827.75

2.4 Star Slots

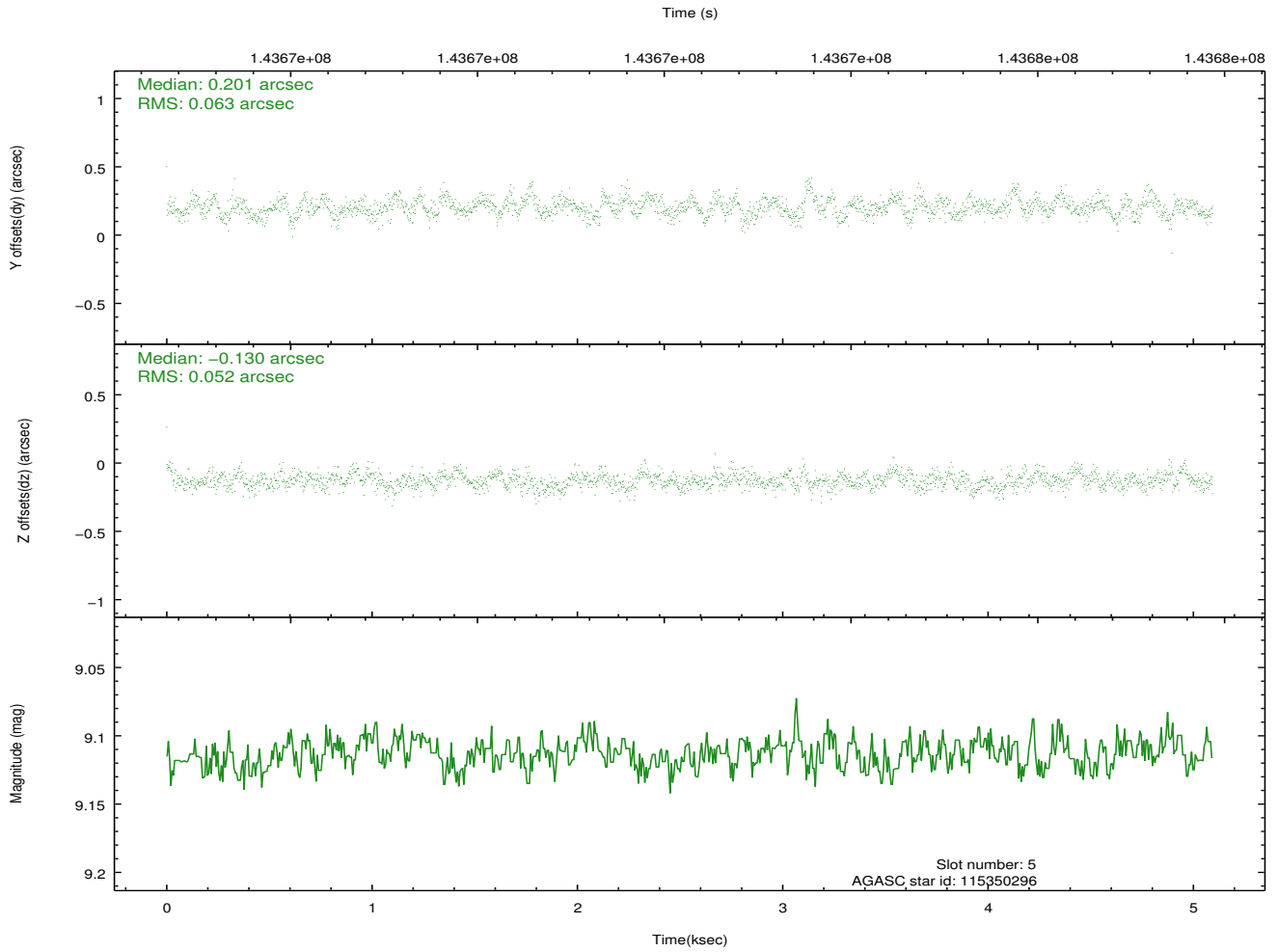
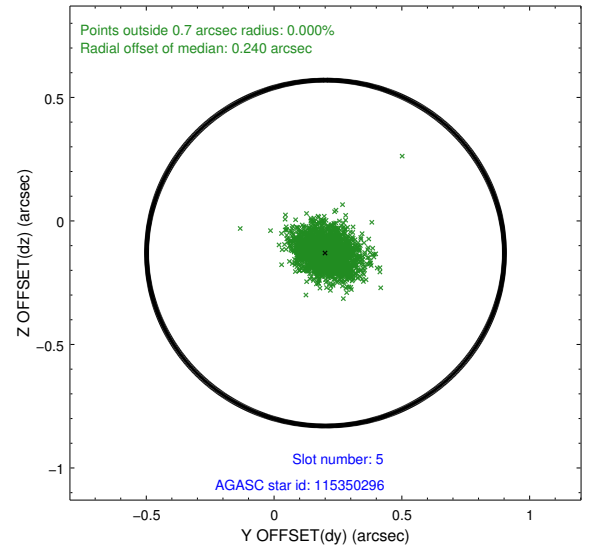
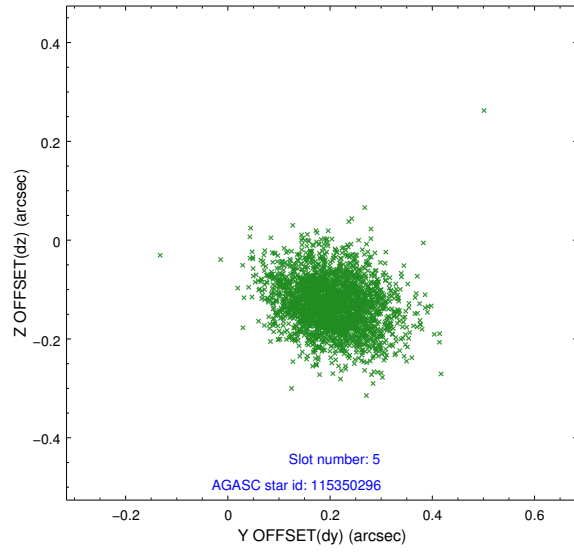
2.4.1 Slot 3



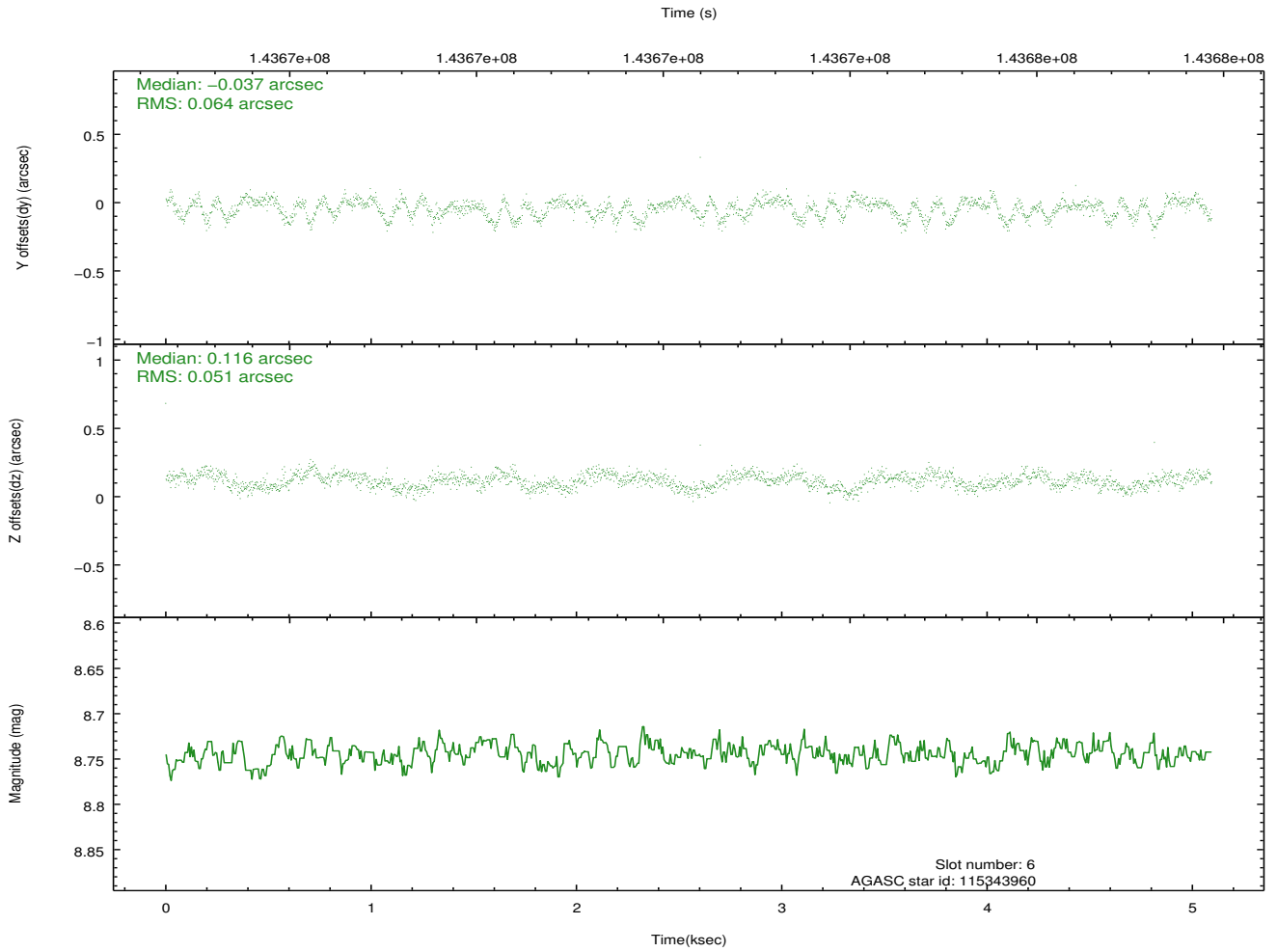
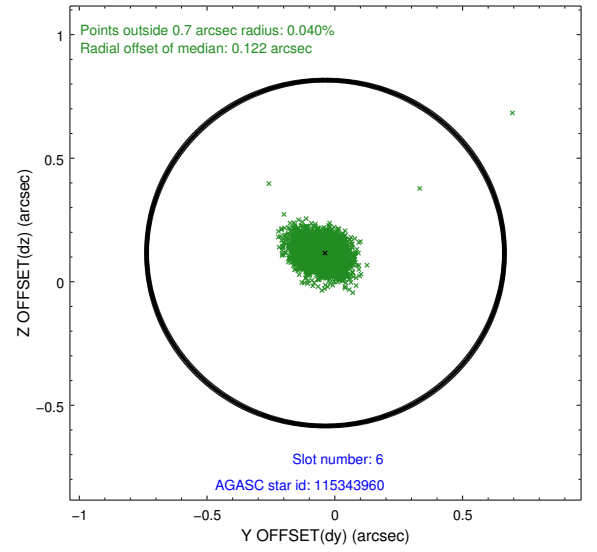
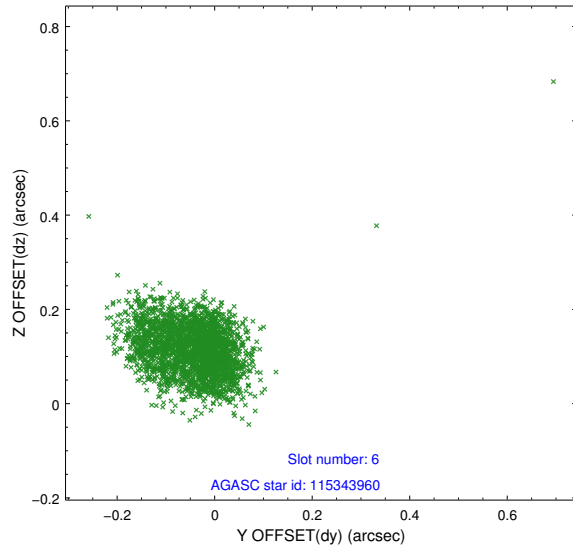
2.4.2 Slot 4



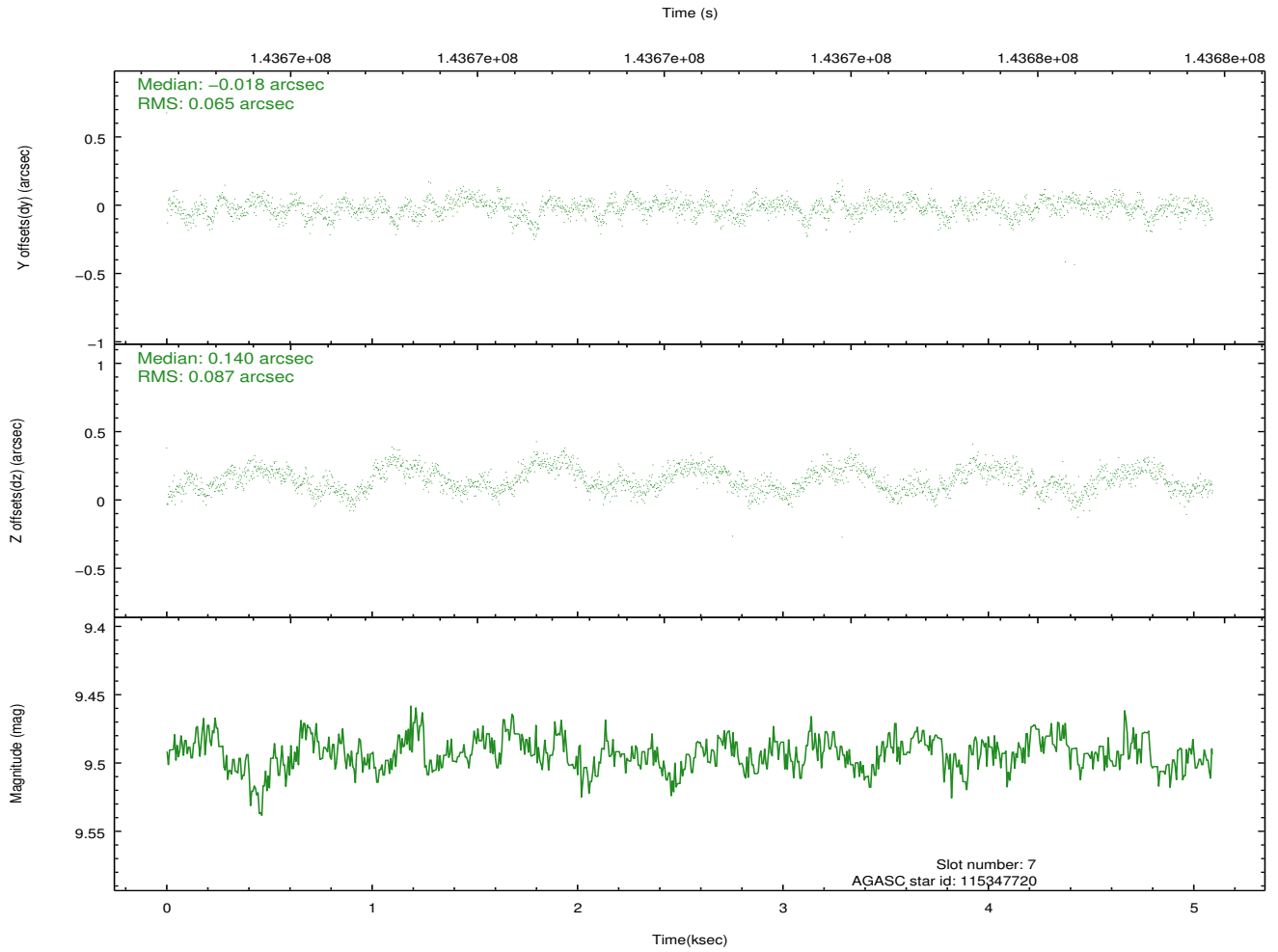
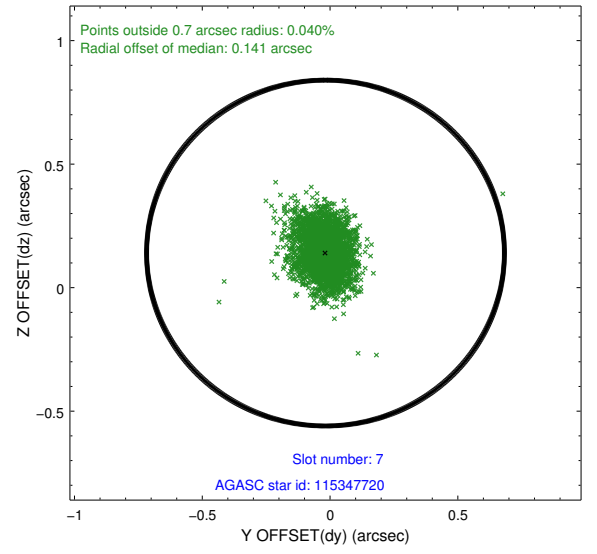
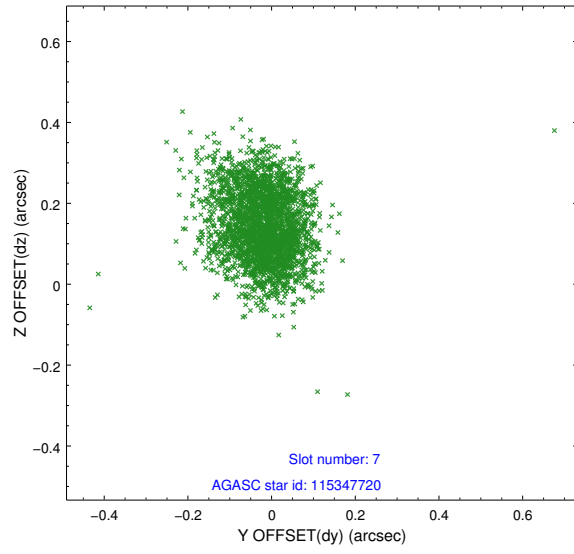
2.4.3 Slot 5



2.4.4 Slot 6

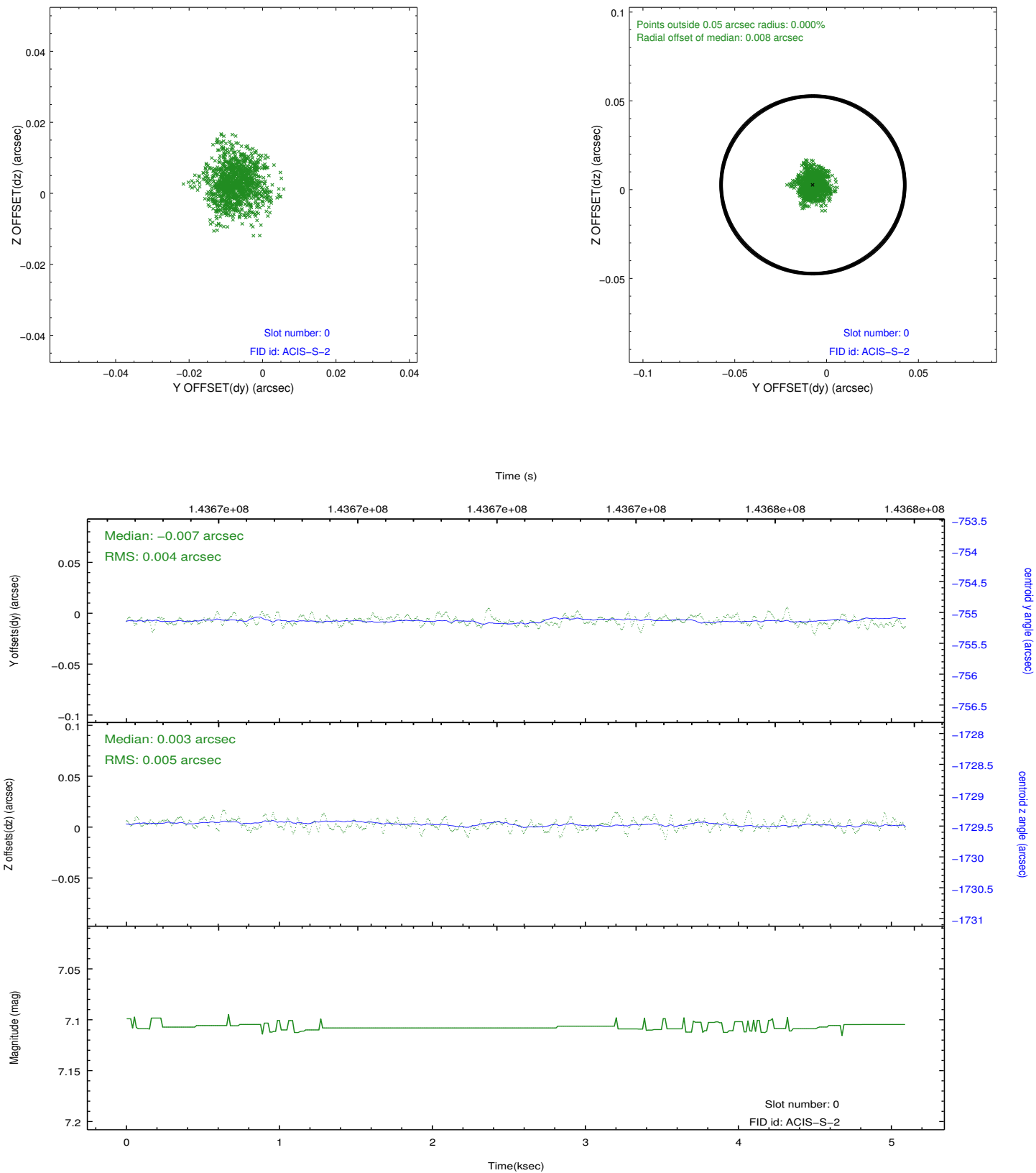


2.4.5 Slot 7

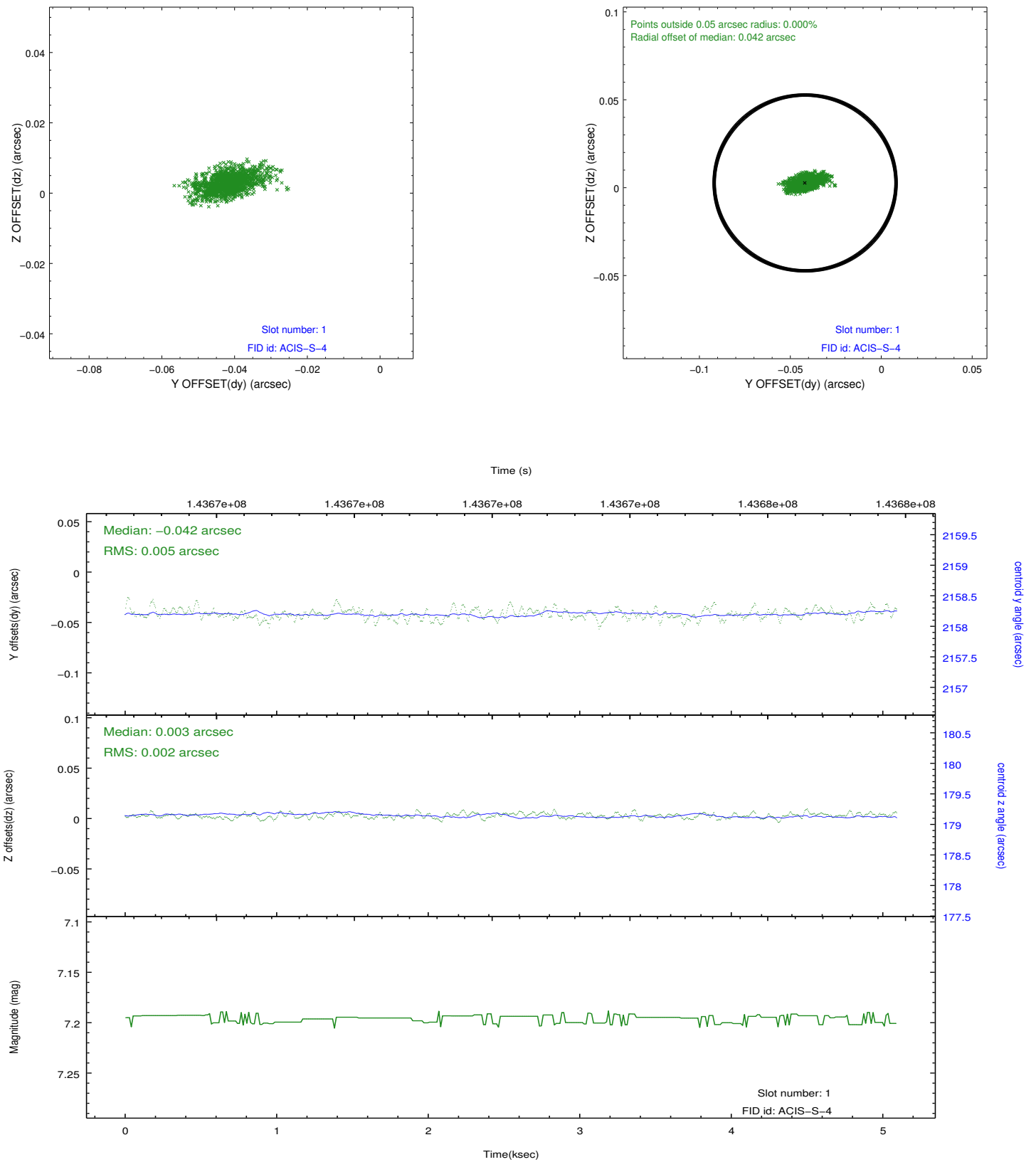


2.5 FID Slots

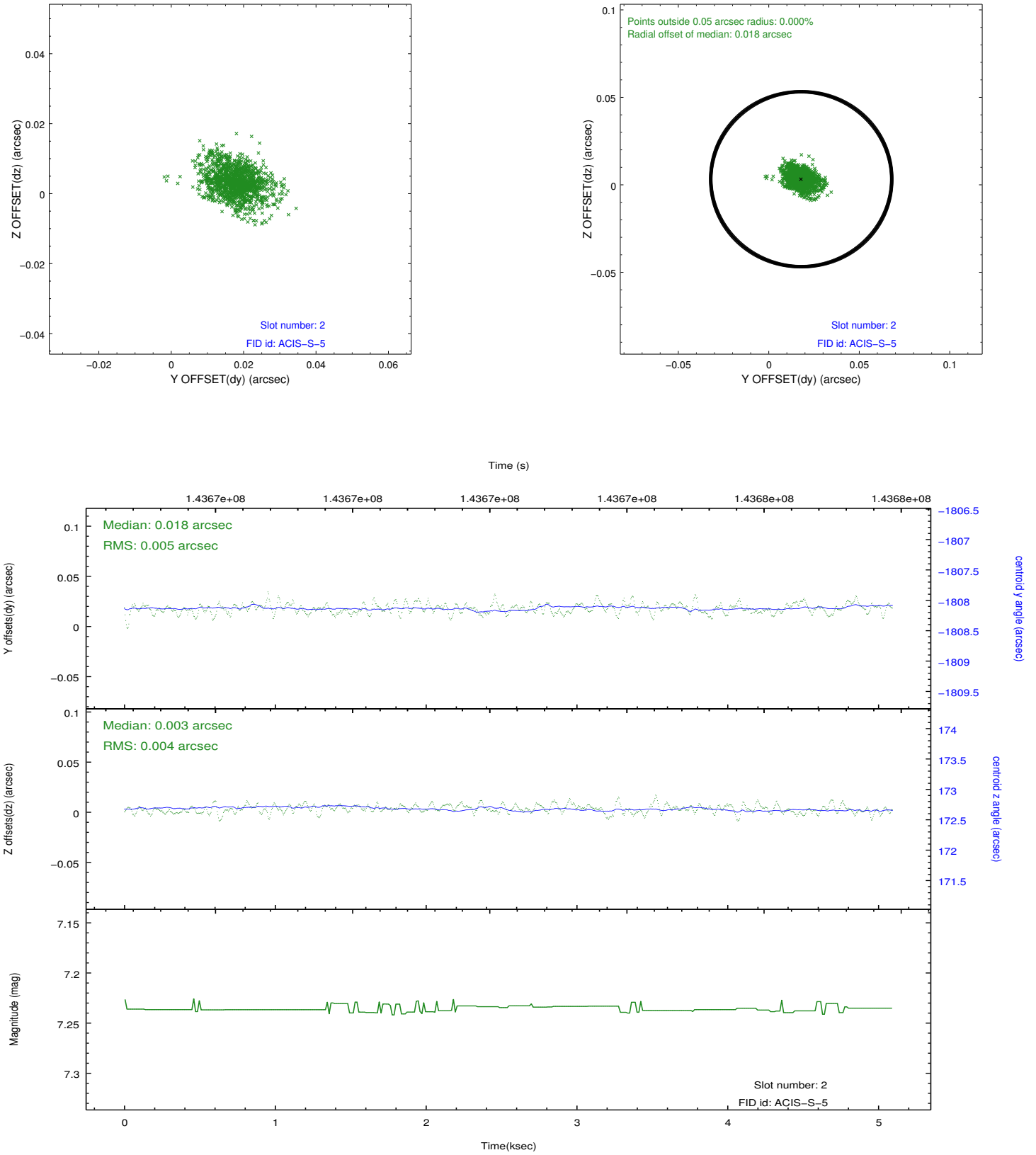
2.5.1 Slot 0



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)	2012.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.662

A.2 Comments

Joint proposal with NOAO.