

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4124 - L2 Version 3
Chandra X-Ray Center

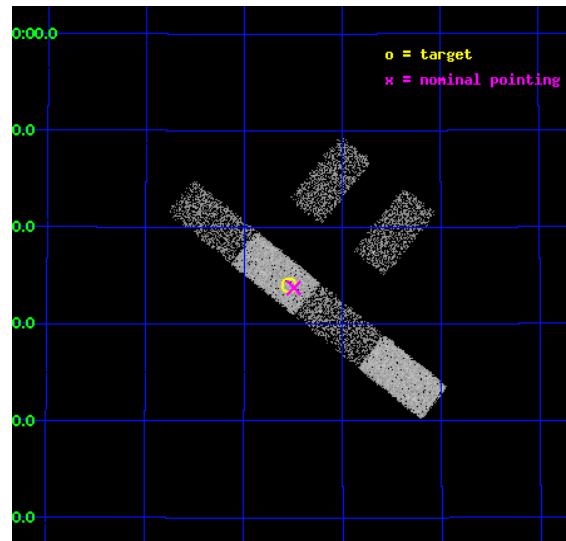
L2 Processing Date : Oct 28 2012

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

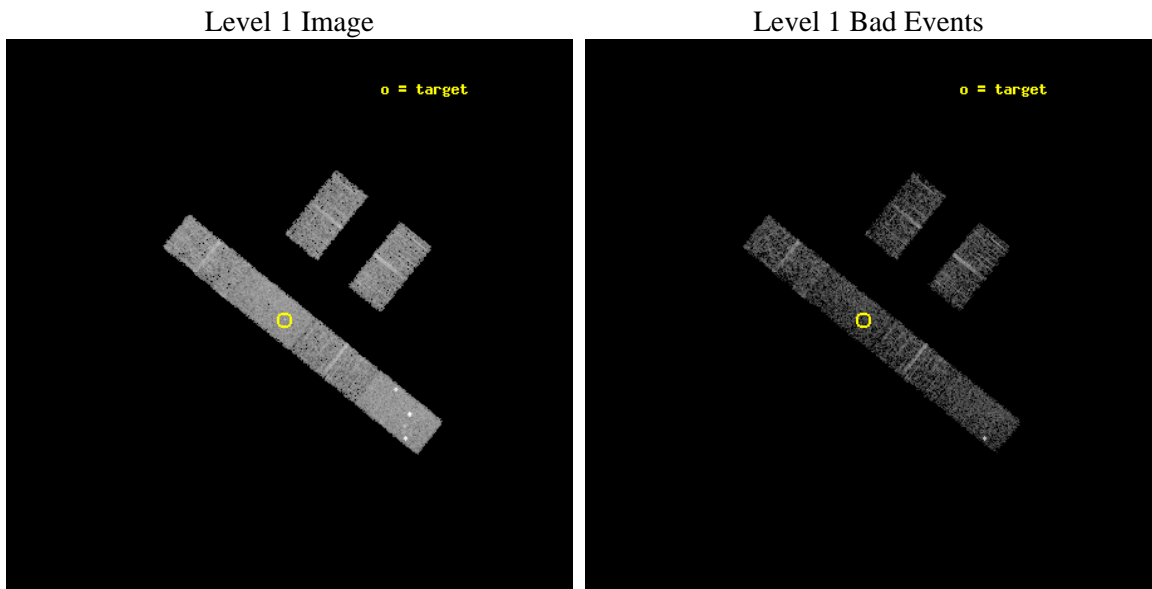
seq_num	700803	Sequence number
obs_id	4124	Observation id
title	WHAT KIND OF JETS DOES NATURE MAKE? X-RAY CHARACTERIZATION OF THE FIRST FLAT SPECTRUM SAMPLE	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	TXS 1259+468	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.385833	Observer's specified target RA [deg]
dec_targ	46.5675	Observer's specified target Dec [deg]
ra_nom	195.37336254	Nominal RA [deg]
dec_nom	46.562856739534	Nominal Dec [deg]
roll_nom	218.86920818783	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3834.0000253916	Sum of GTIs [s]
livetime	3748.5334624478	Livetime [s]
ontime2	3834.0000253916	Sum of GTIs [s]
ontime3	3834.0000253916	Sum of GTIs [s]
ontime5	3834.0000253916	Sum of GTIs [s]
ontime6	3834.0000253916	Sum of GTIs [s]
ontime7	3834.0000253916	Sum of GTIs [s]
ontime8	3834.0000253916	Sum of GTIs [s]
l2events	19920	Number of level 2 events



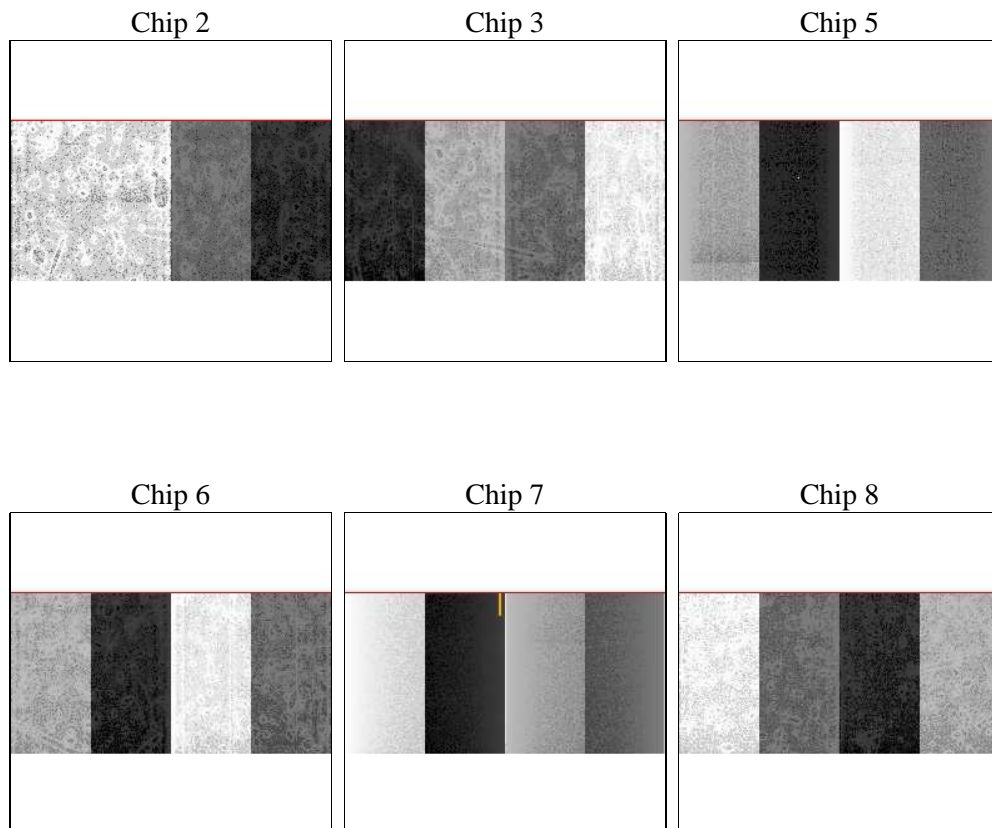
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3432.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3834.0000253916	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	3834.0000253916	Sum of GTIs [s]
date	2012-10-28T13:28:14	Date and time of file creation	ontime3	3834.0000253916	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3834.0000253916	Sum of GTIs [s]
			ontime6	3834.0000253916	Sum of GTIs [s]
			ontime7	3834.0000253916	Sum of GTIs [s]
			ontime8	3834.0000253916	Sum of GTIs [s]
			l1events	94655	Number of level 1 events

2.1.4 Events

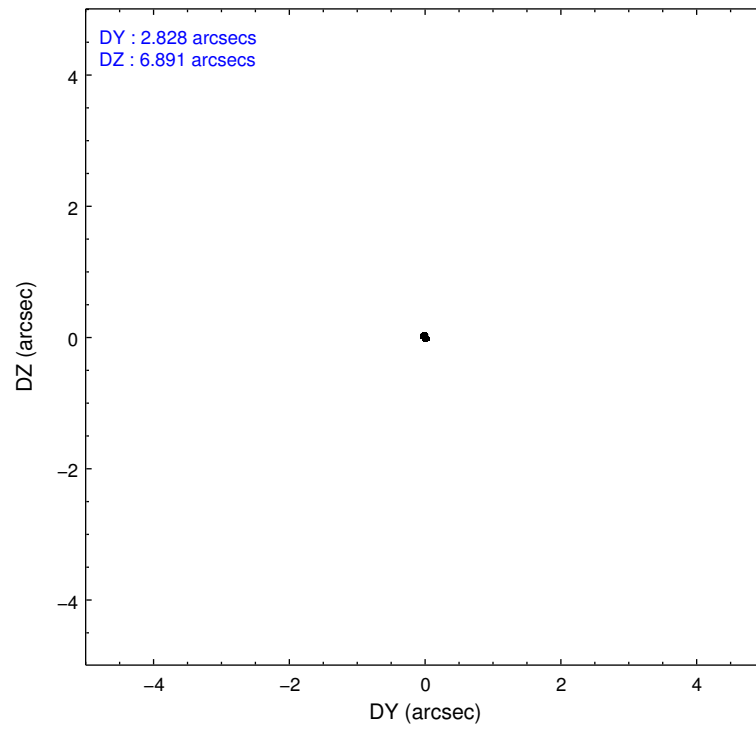
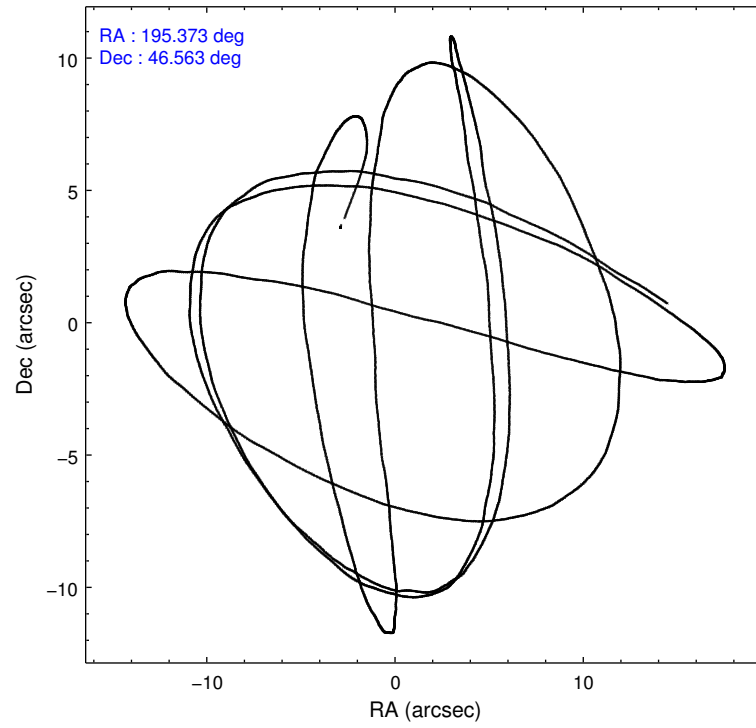
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13915	12105	22372	13081	16658	16524
rejected events	12339	10657	10299	11471	9585	13117
rejected %	88%	88%	46%	87%	57%	79%

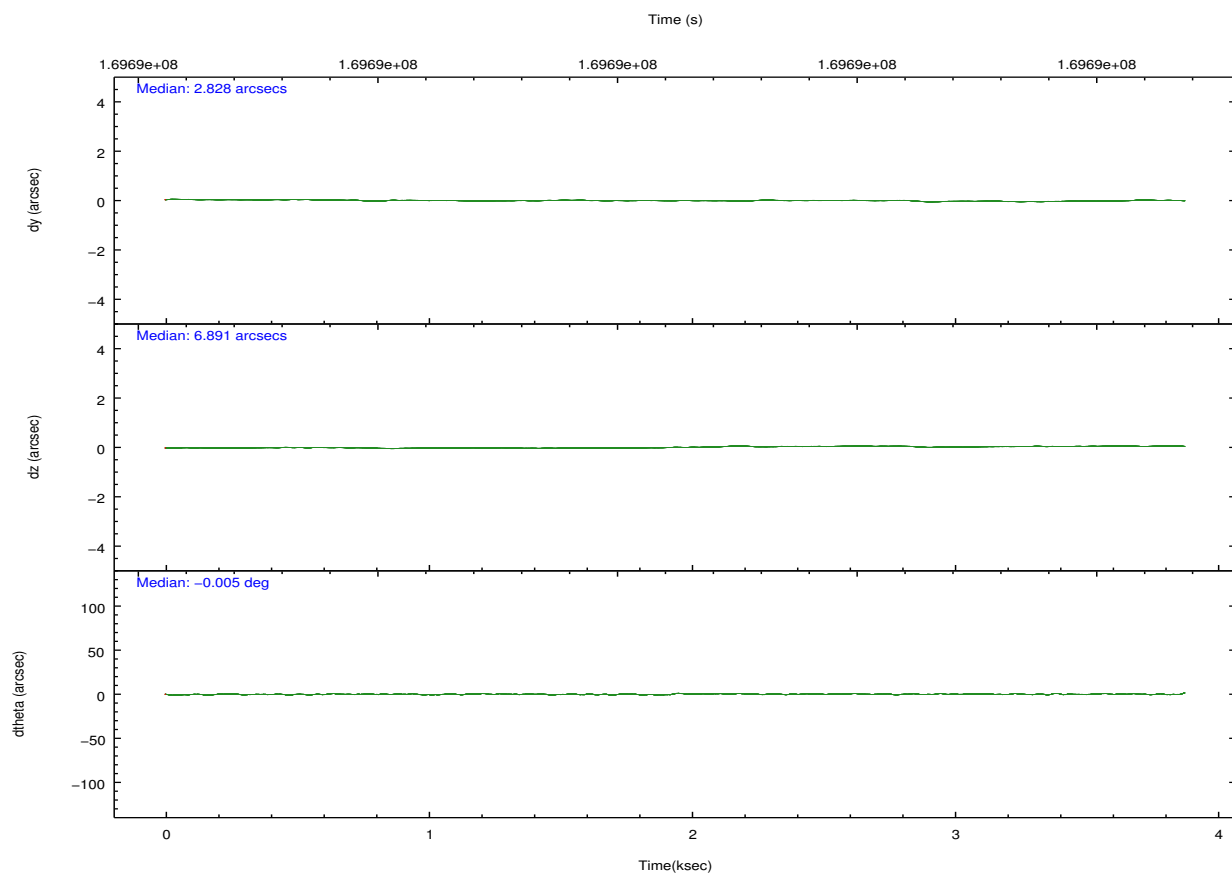
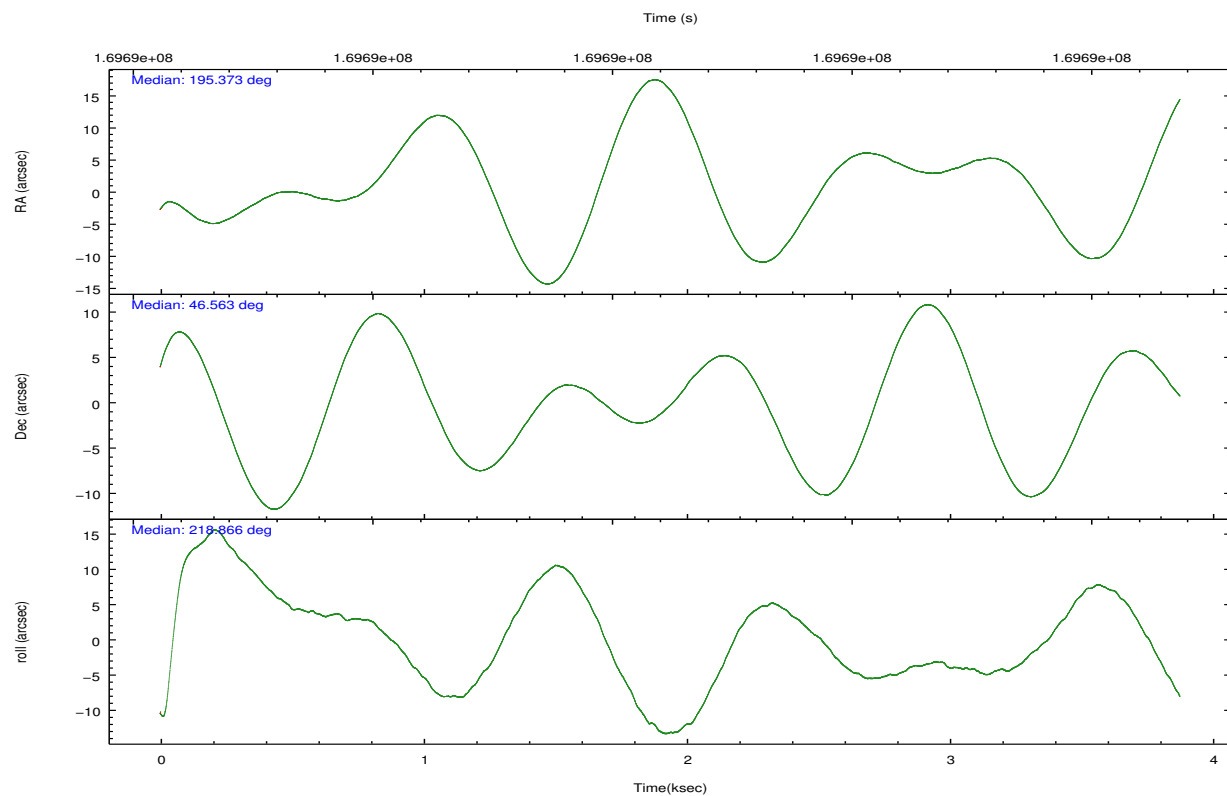
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	746	598	4072	631	727	989
	5%	4%	18%	4%	4%	5%
grade 1 events	6	5	26	2	26	5
	0%	0%	0%	0%	0%	0%
grade 2 events	289	263	2969	303	1409	725
	2%	2%	13%	2%	8%	4%
grade 3 events	164	179	475	180	698	390
	1%	1%	2%	1%	4%	2%
grade 4 events	175	166	412	197	705	346
	1%	1%	1%	1%	4%	2%
grade 5 events	521	543	1522	562	1580	648
	3%	4%	6%	4%	9%	3%
grade 6 events	202	242	4161	299	3540	961
	1%	1%	18%	2%	21%	5%
grade 7 events	11812	10109	8735	10907	7973	12460
	84%	83%	39%	83%	47%	75%

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	195.387286	195.3733625400033	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	46.588375	46.5628567395337	Subarray start row	257	257
[deg] Pointing Roll	218.702543	218.869208187831	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)	169690745.184000	169689656.25664			
Observation start date	2003-05-19T00:18:01	2003-05-19T00:00:56			
[s] Observation end time (MET)	169694177.184000	169694680.80686			
Observation end date	2003-05-19T01:15:13	2003-05-19T01:24:40			
Read mode	TIMED	TIMED			

2.3 Aspect



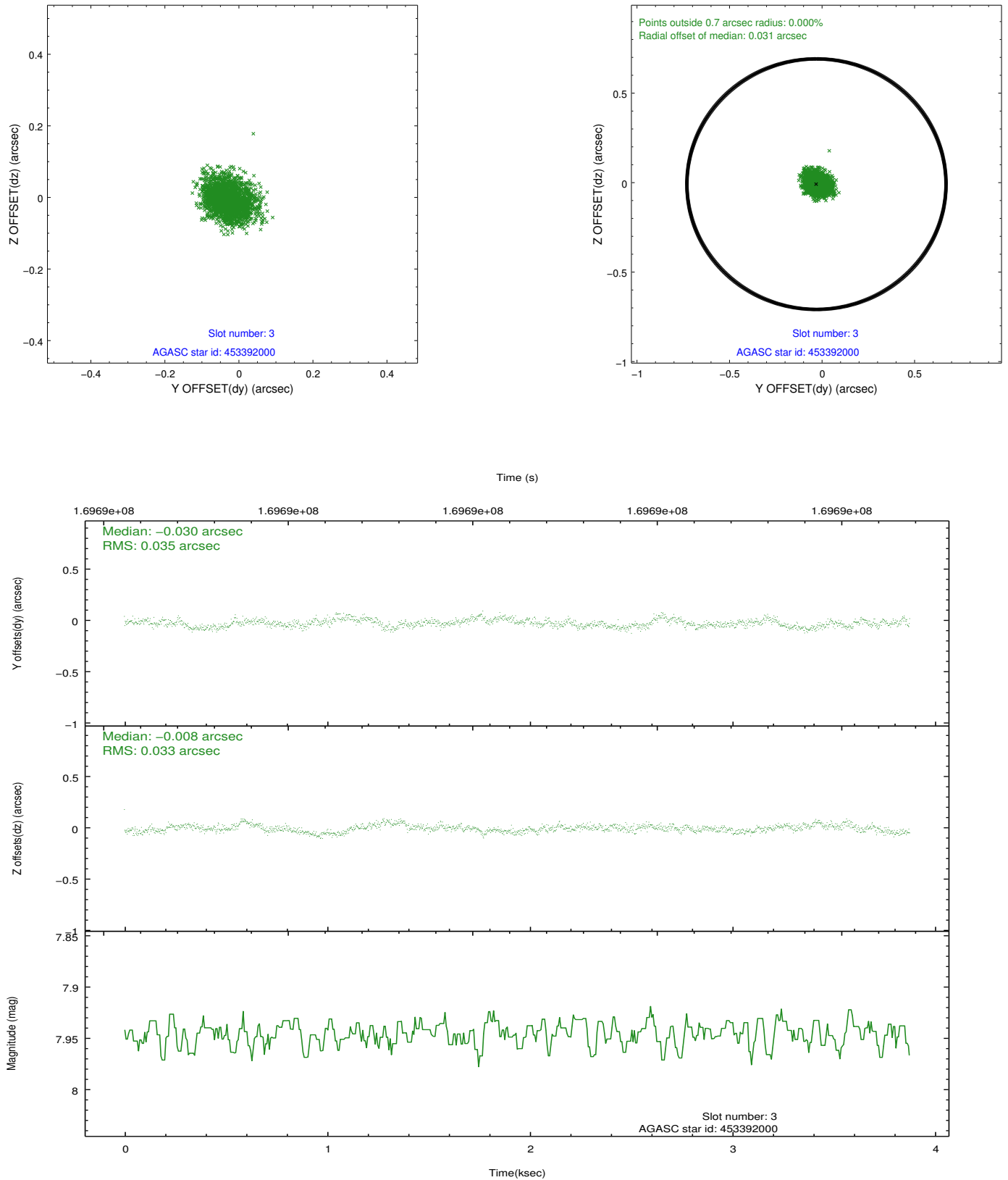


Slot Statistics

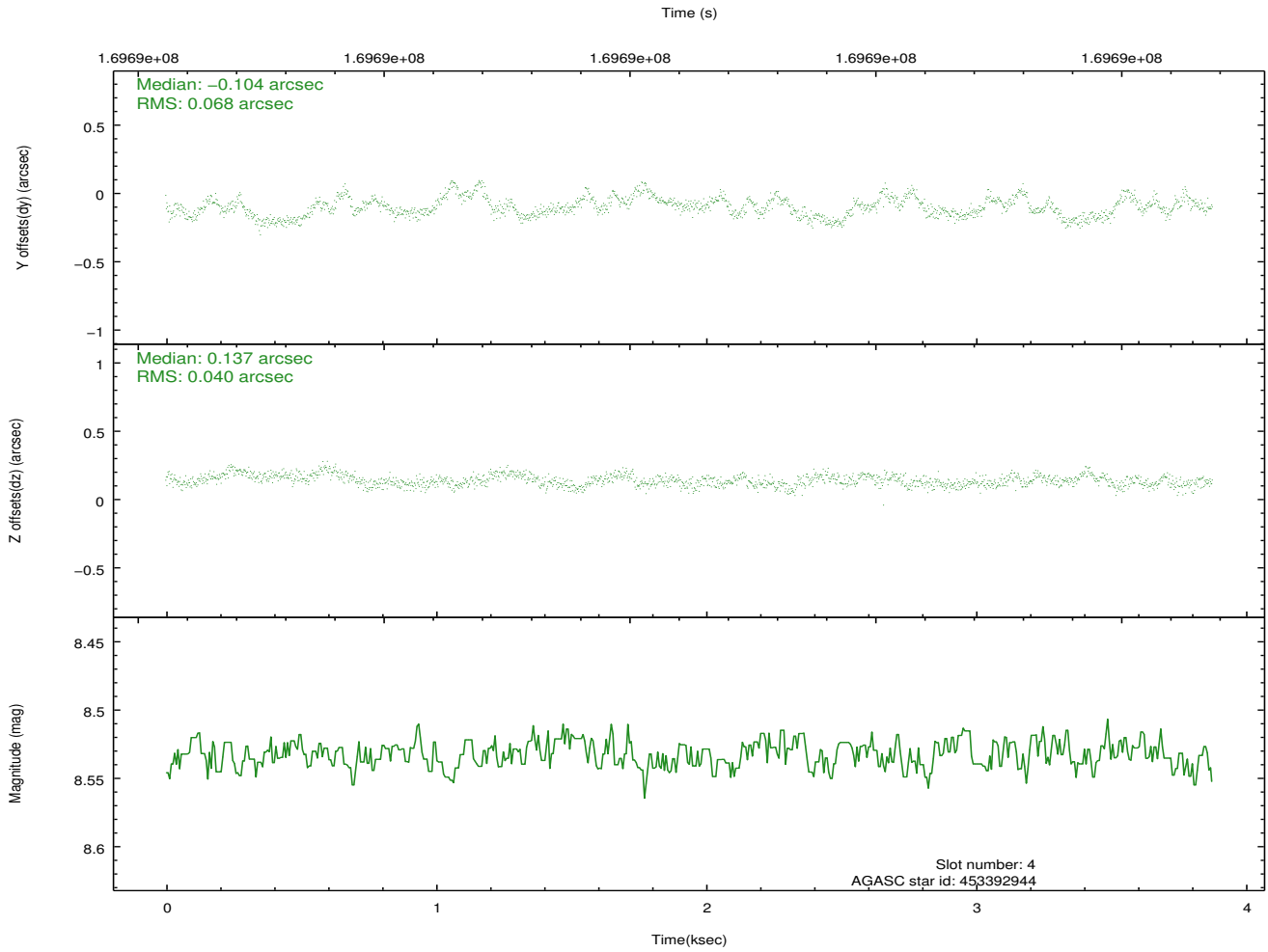
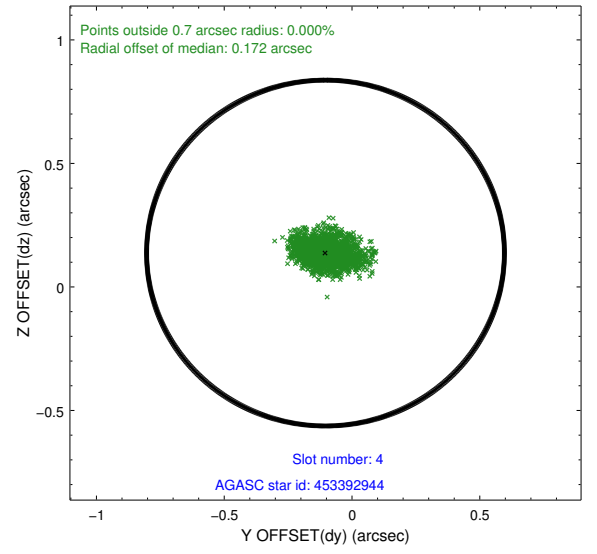
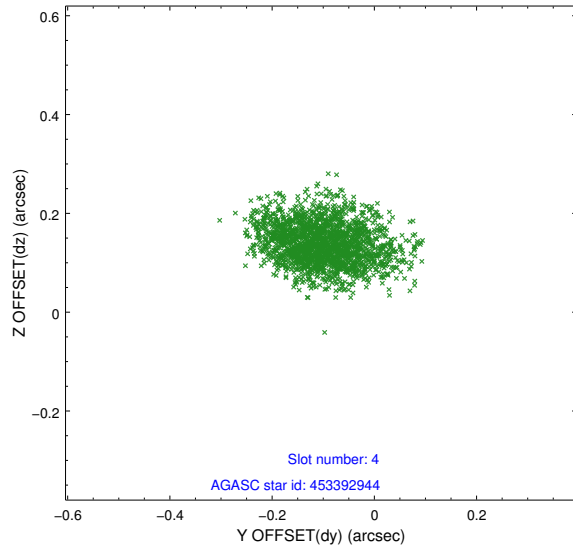
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	946	-0.039	-0.014	0.007	0.012	0.000000	0.000000	-755.48	-1728.03
1	FID	ACIS-S-4	7.20	946	0.031	0.023	0.006	0.011	0.000000	0.000000	2157.11	178.85
2	FID	ACIS-S-5	7.24	946	-0.023	0.001	0.007	0.011	0.000000	0.000000	-1806.25	174.30
3	GUIDE	453392000	7.95	1892	-0.030	-0.008	0.052	0.084	195.230239	45.949075	1745.44	1550.50
4	GUIDE	453392944	8.53	1892	-0.104	0.137	0.083	0.137	196.043621	46.459257	-983.05	1376.19
5	GUIDE	453393848	9.97	1890	-0.063	-0.126	0.176	0.287	194.911451	47.103033	-251.26	-2176.78
6	GUIDE	453394192	9.28	1891	0.127	-0.003	0.069	0.110	194.905663	46.455522	1228.89	-377.17
7	GUIDE	453394432	8.19	1891	0.067	-0.001	0.058	0.093	194.770484	46.388824	1641.54	-401.38

2.4 Star Slots

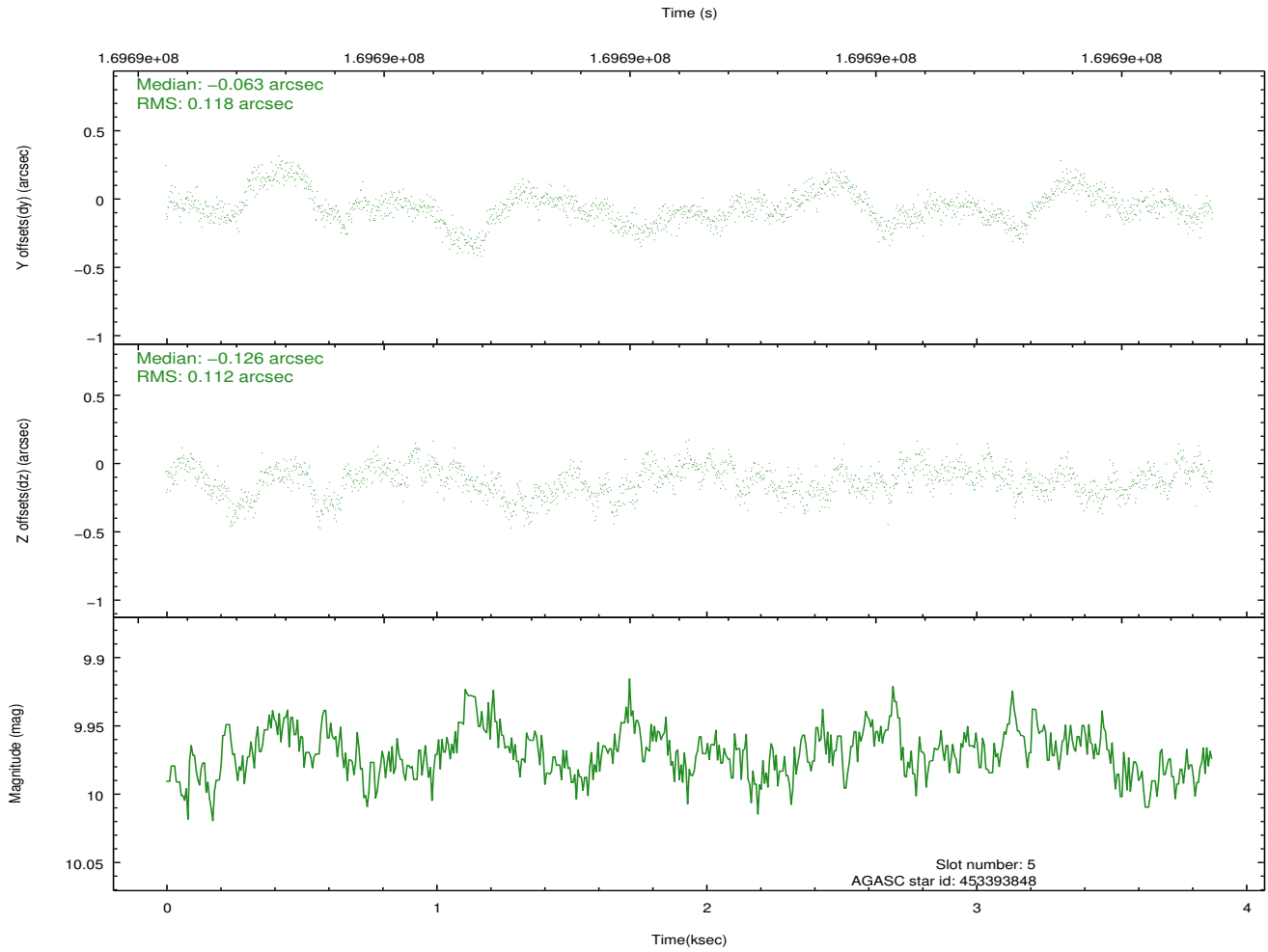
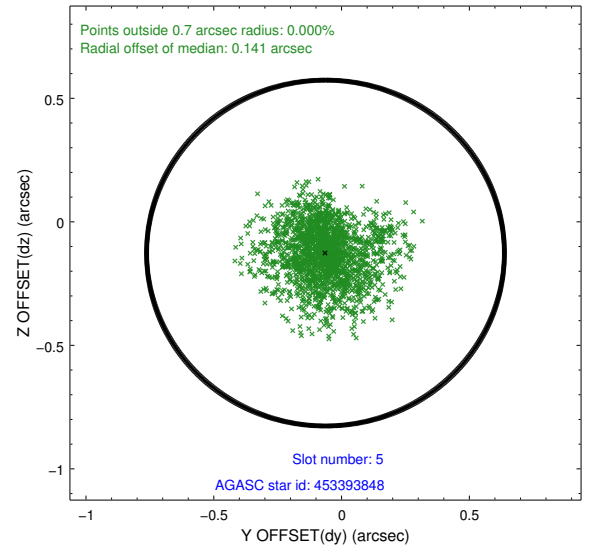
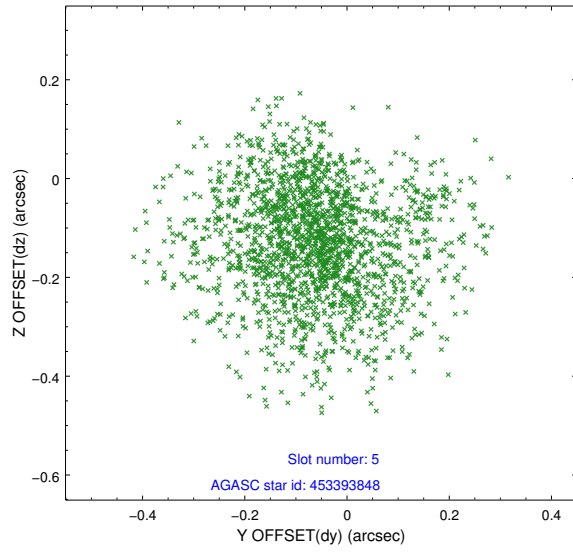
2.4.1 Slot 3



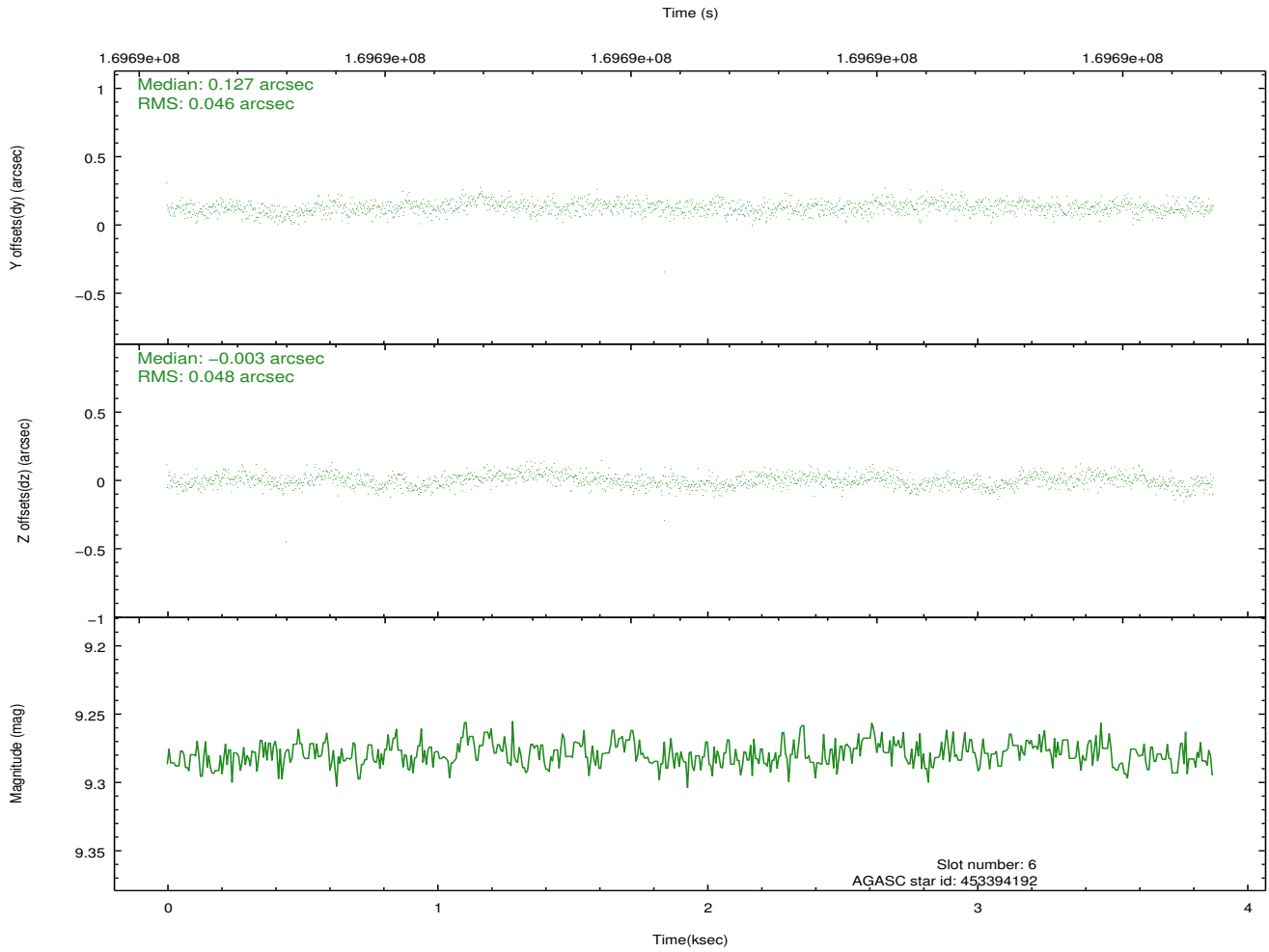
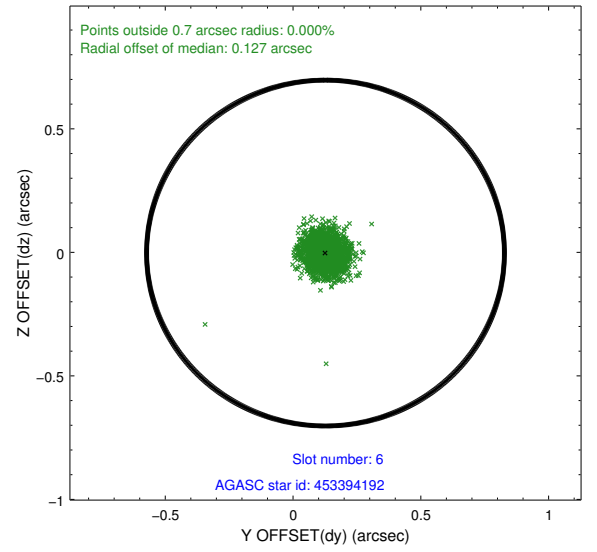
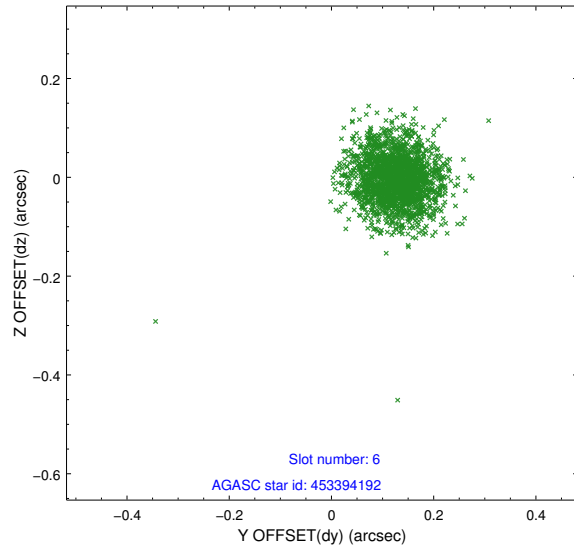
2.4.2 Slot 4



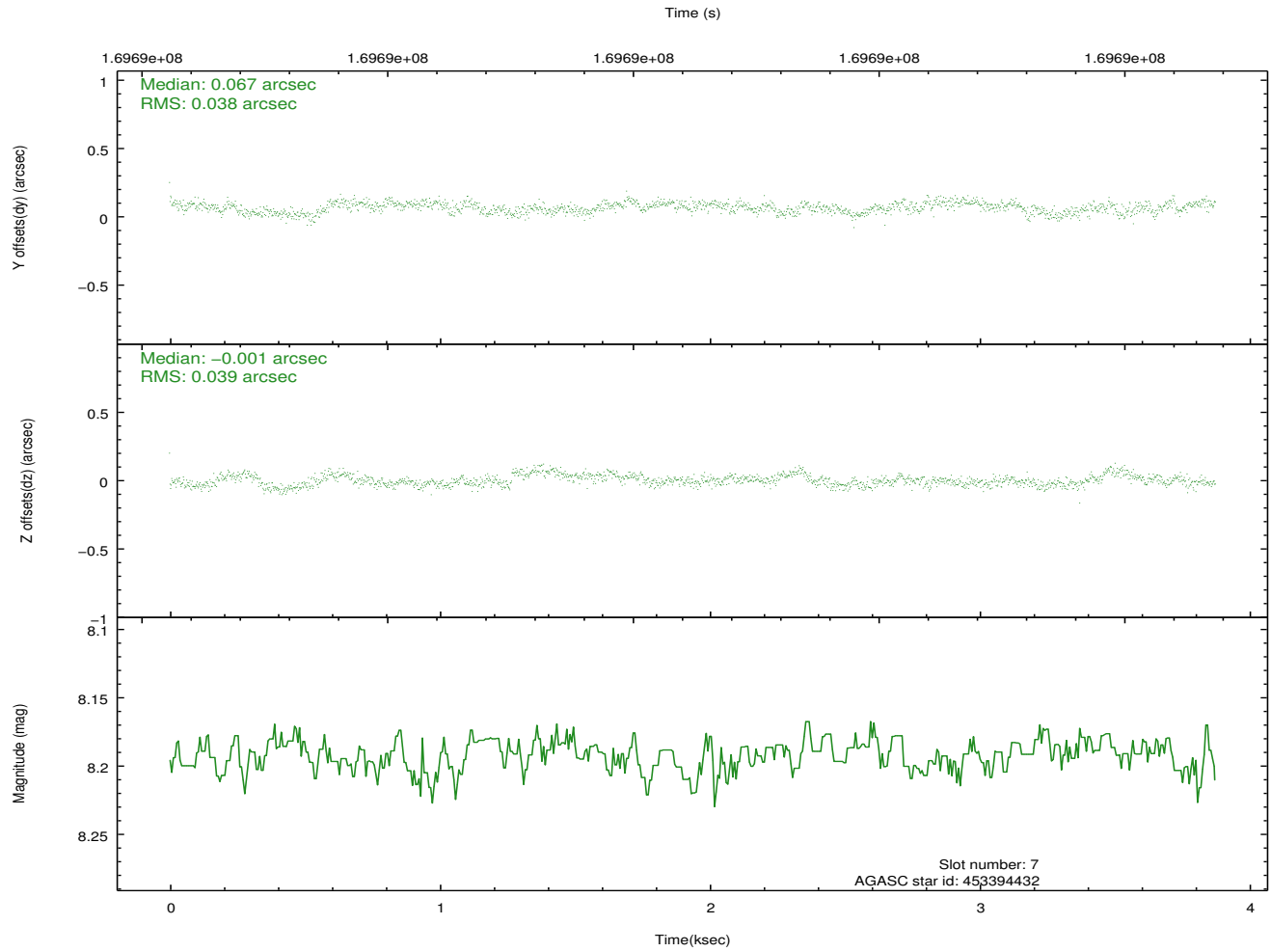
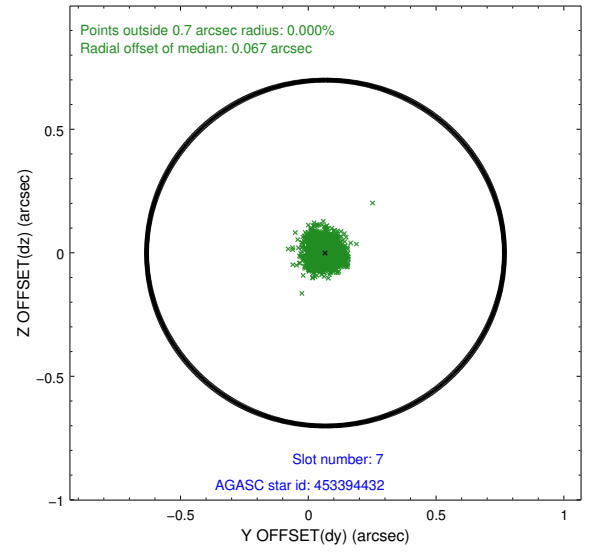
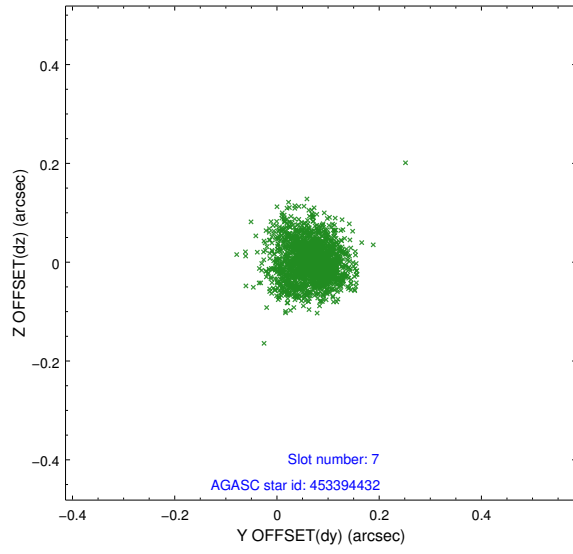
2.4.3 Slot 5



2.4.4 Slot 6

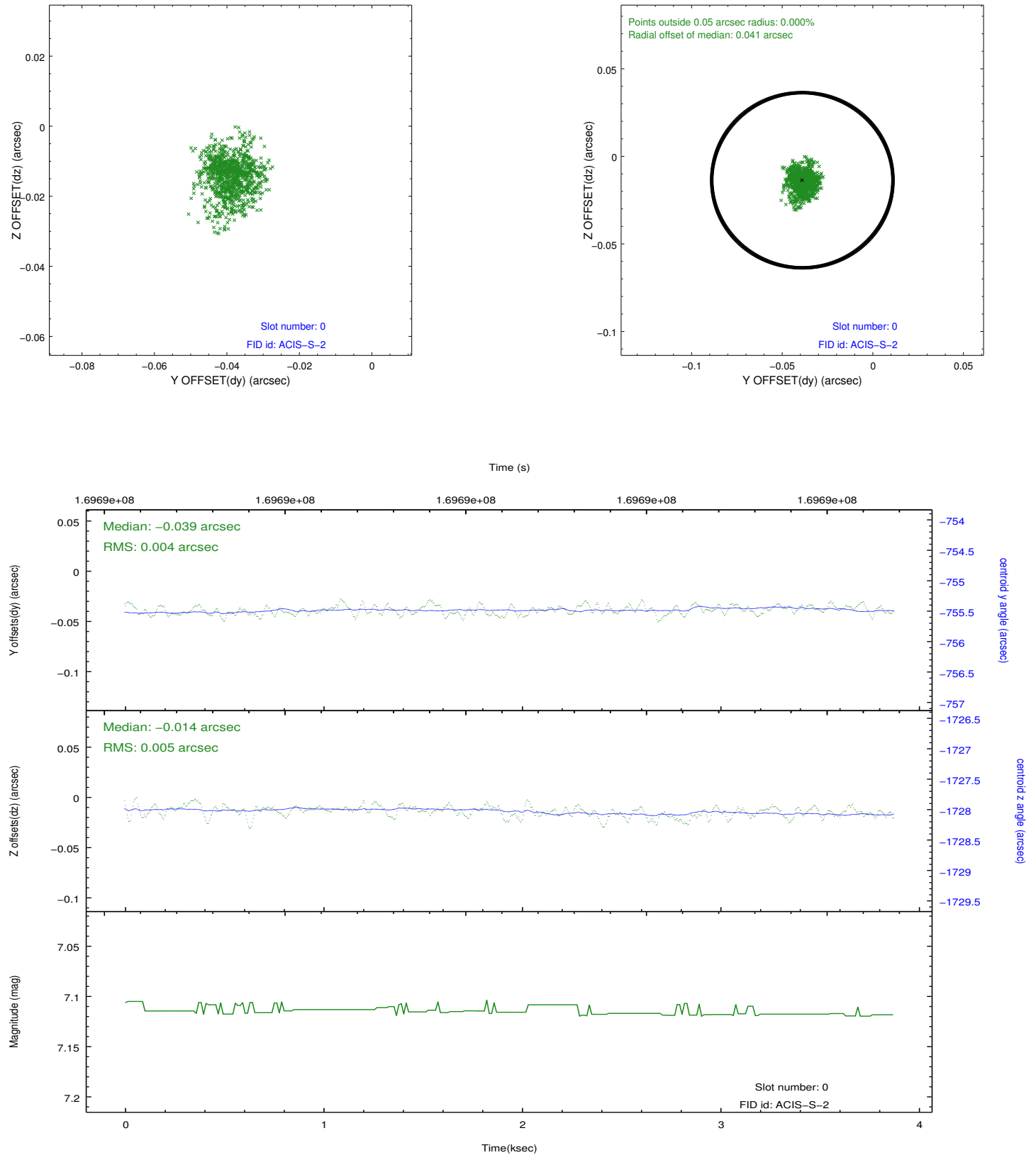


2.4.5 Slot 7

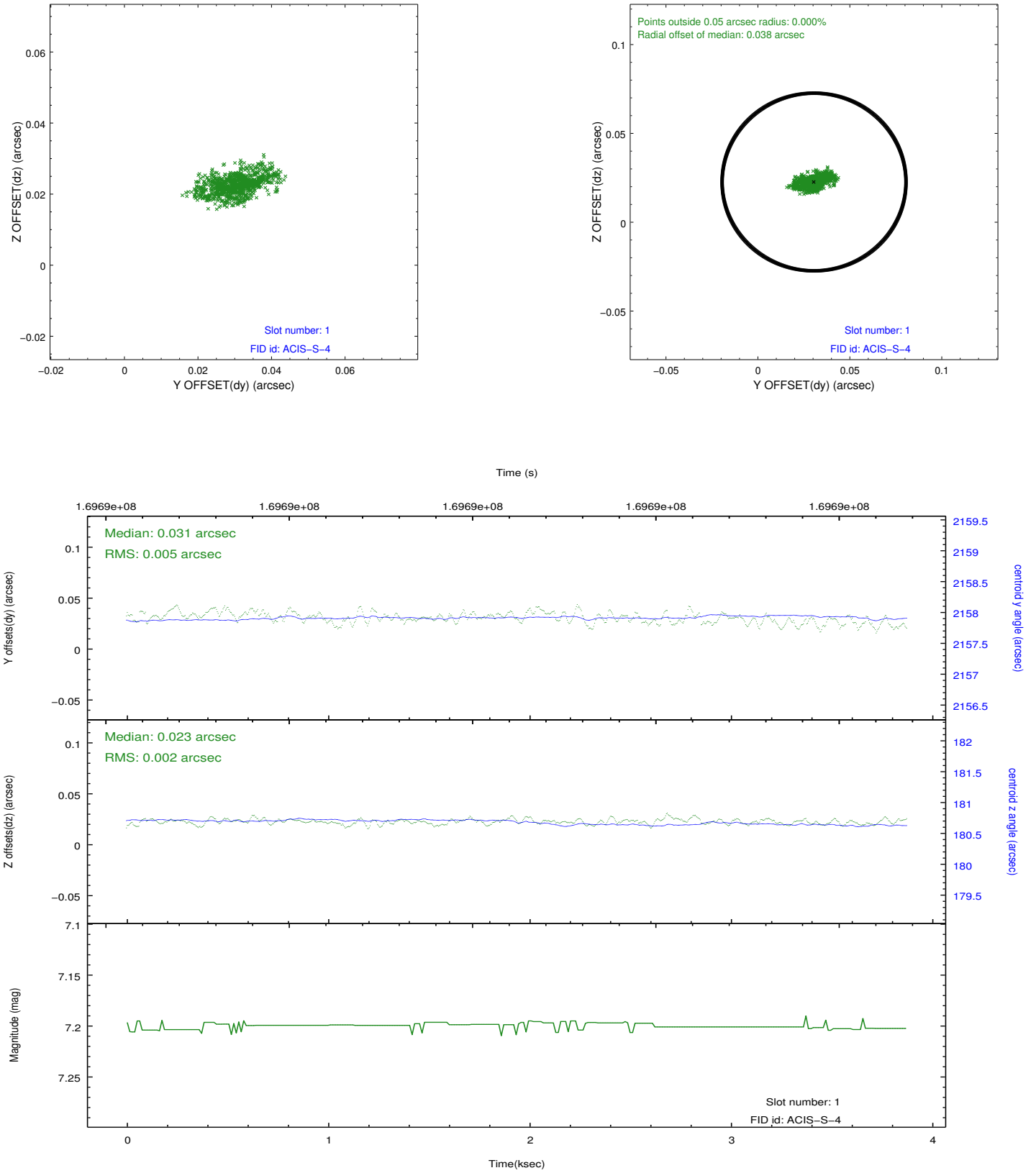


2.5 FID Slots

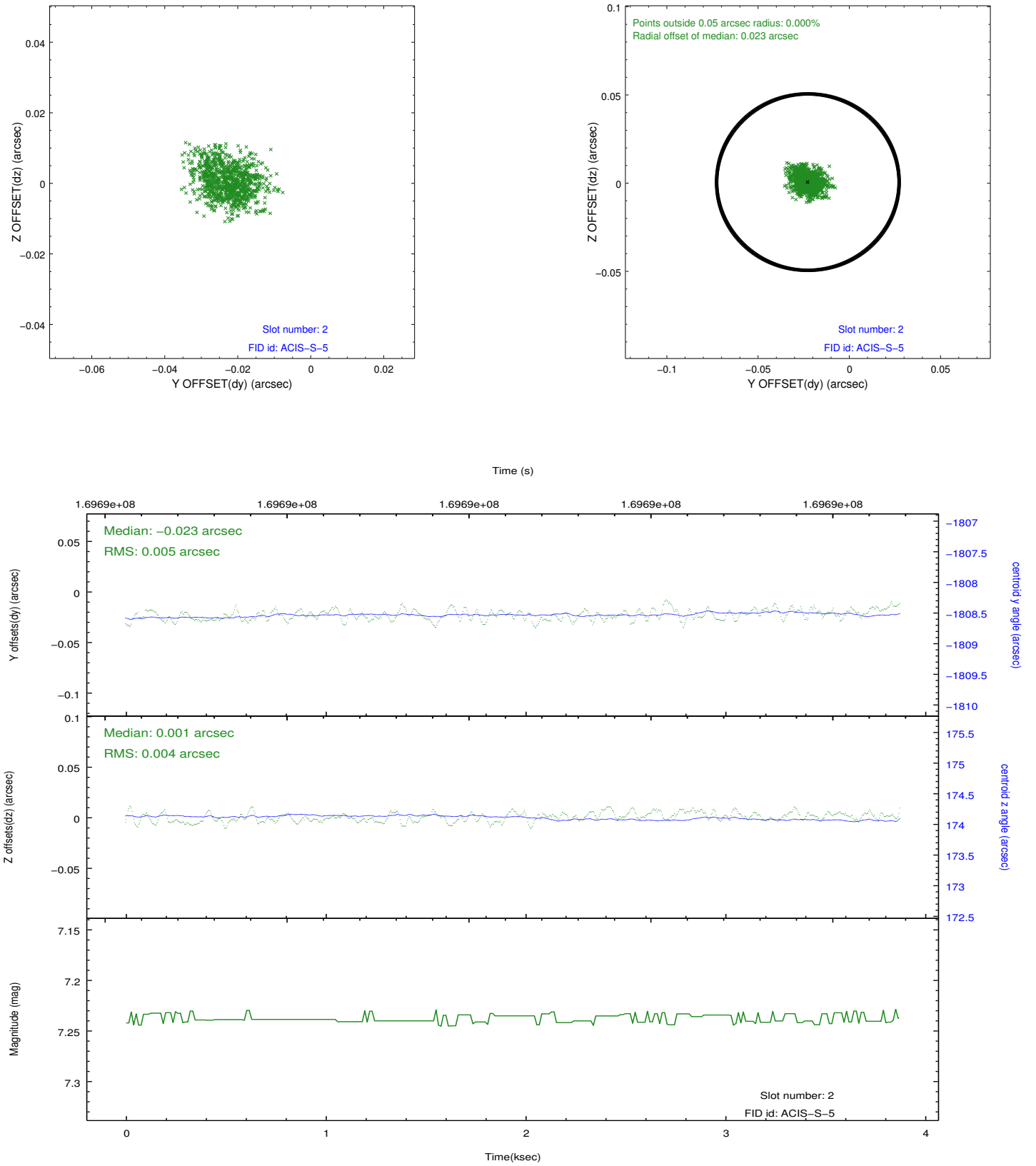
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.835

A.2 Comments