

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7308 - L2 Version 2
Chandra X-Ray Center

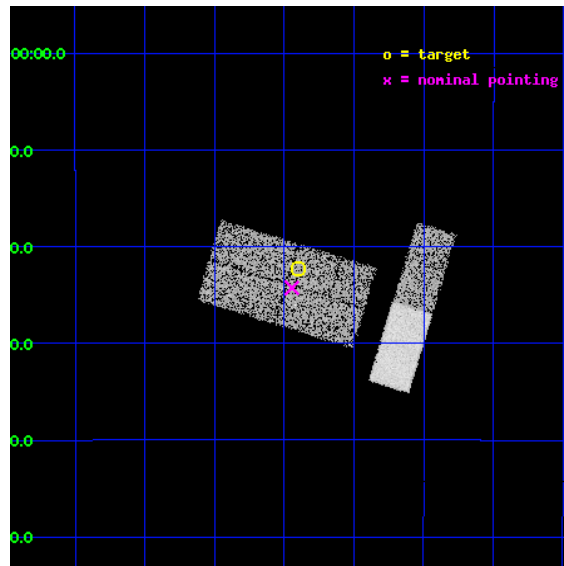
L2 Processing Date : Mar 28 2012

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1 Front

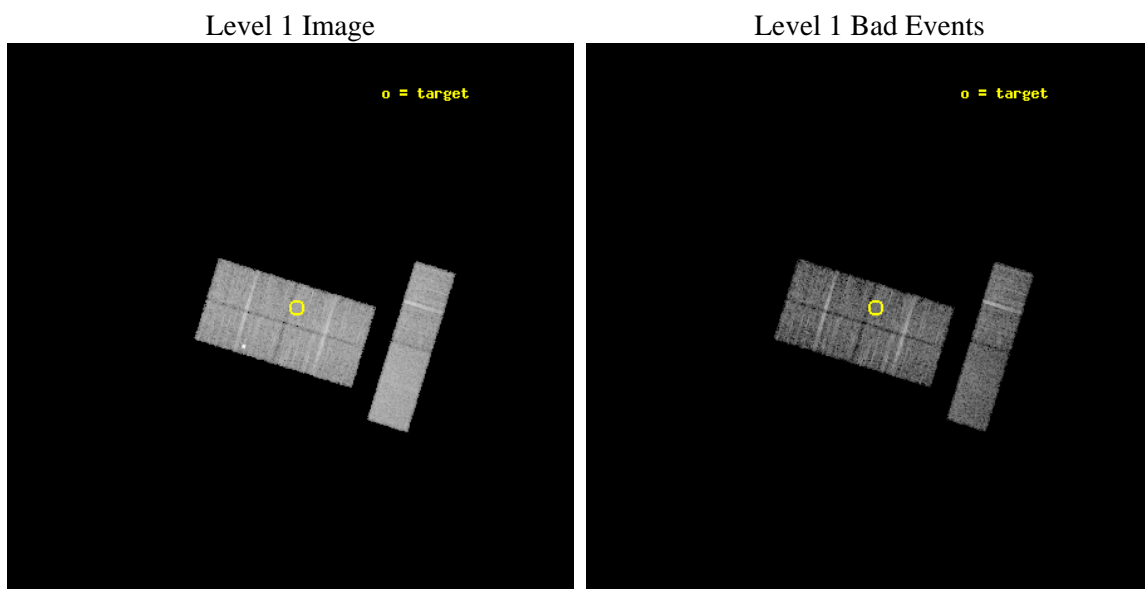
seq_num	100062	Sequence number
obs_id	7308	Observation id
title	Search for charge exchange induced X-ray emission in the Venusian exosphere	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	321.974354	Observer's specified target RA [deg]
dec_targ	-13.37191	Observer's specified target Dec [deg]
ra_nom	321.98643299832	Nominal RA [deg]
dec_nom	-13.404528545636	Nominal Dec [deg]
roll_nom	107.06825861704	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6386.4000422955	Sum of GTIs [s]
livetime	6244.0360210163	Livetime [s]
ontime0	6386.4000422955	Sum of GTIs [s]
ontime1	6386.4000422955	Sum of GTIs [s]
ontime2	6386.4000422955	Sum of GTIs [s]
ontime3	6386.4000422955	Sum of GTIs [s]
ontime6	6386.4000422955	Sum of GTIs [s]
ontime7	6386.4000422955	Sum of GTIs [s]
l2events	30856	Number of level 2 events



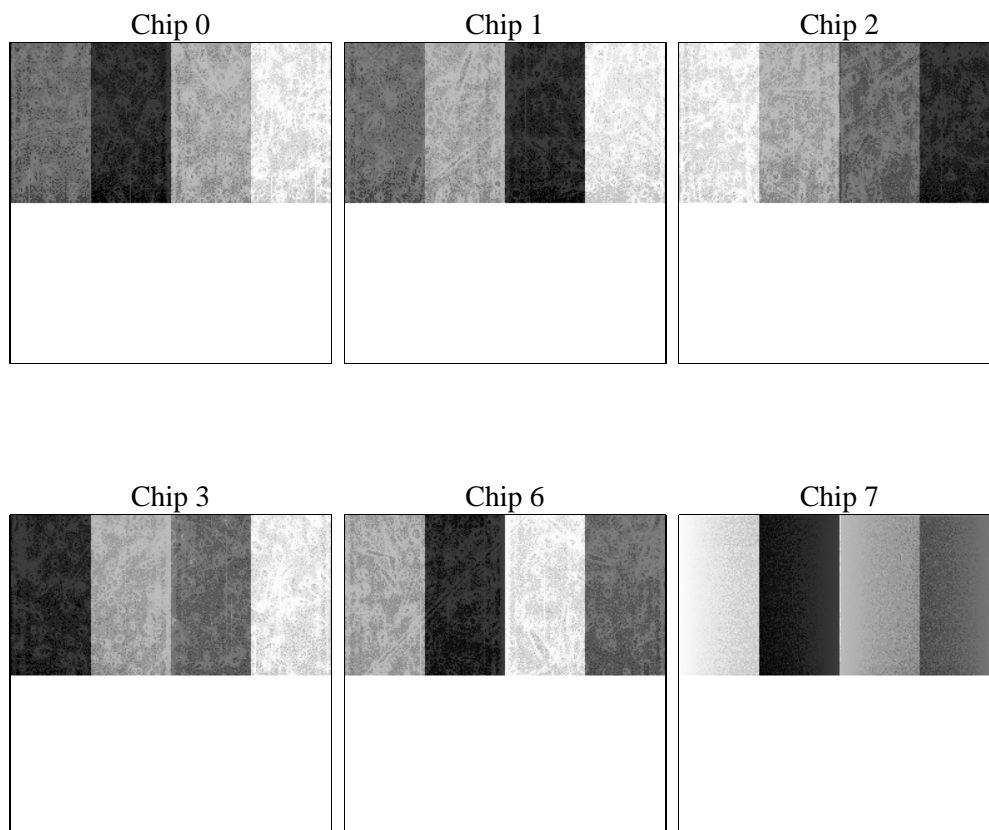
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	6386.4000422955	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	6386.4000422955	Sum of GTIs [s]
date	2012-03-28T21:42:28	Date and time of file creation	ontime1	6386.4000422955	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6386.4000422955	Sum of GTIs [s]
			ontime3	6386.4000422955	Sum of GTIs [s]
			ontime6	6386.4000422955	Sum of GTIs [s]
			ontime7	6386.4000422955	Sum of GTIs [s]
			l1events	202174	Number of level 1 events

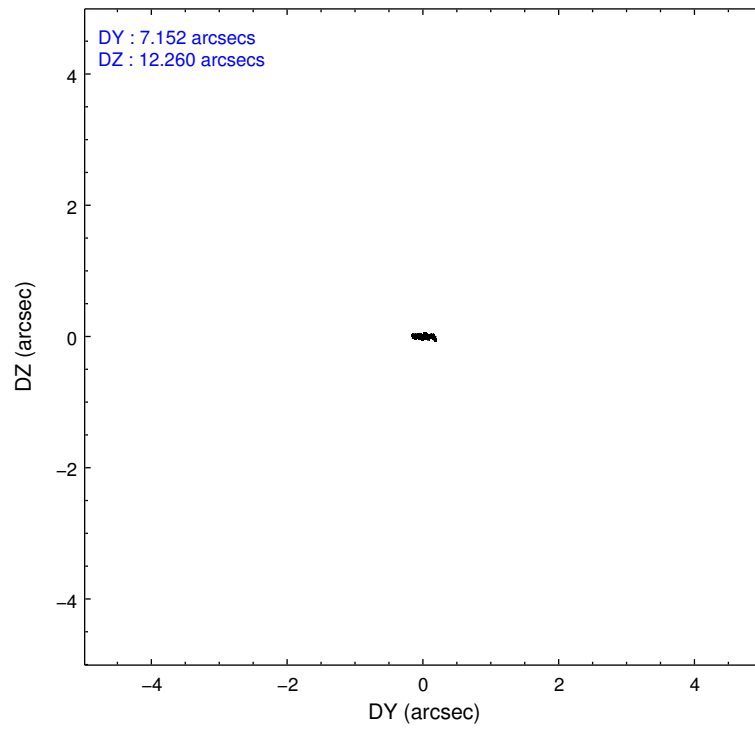
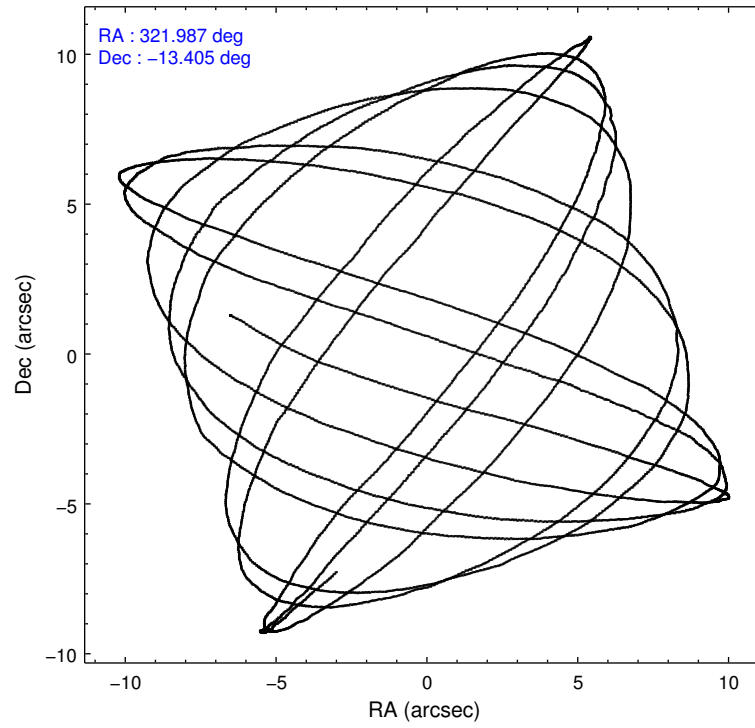
2.1.4 Events

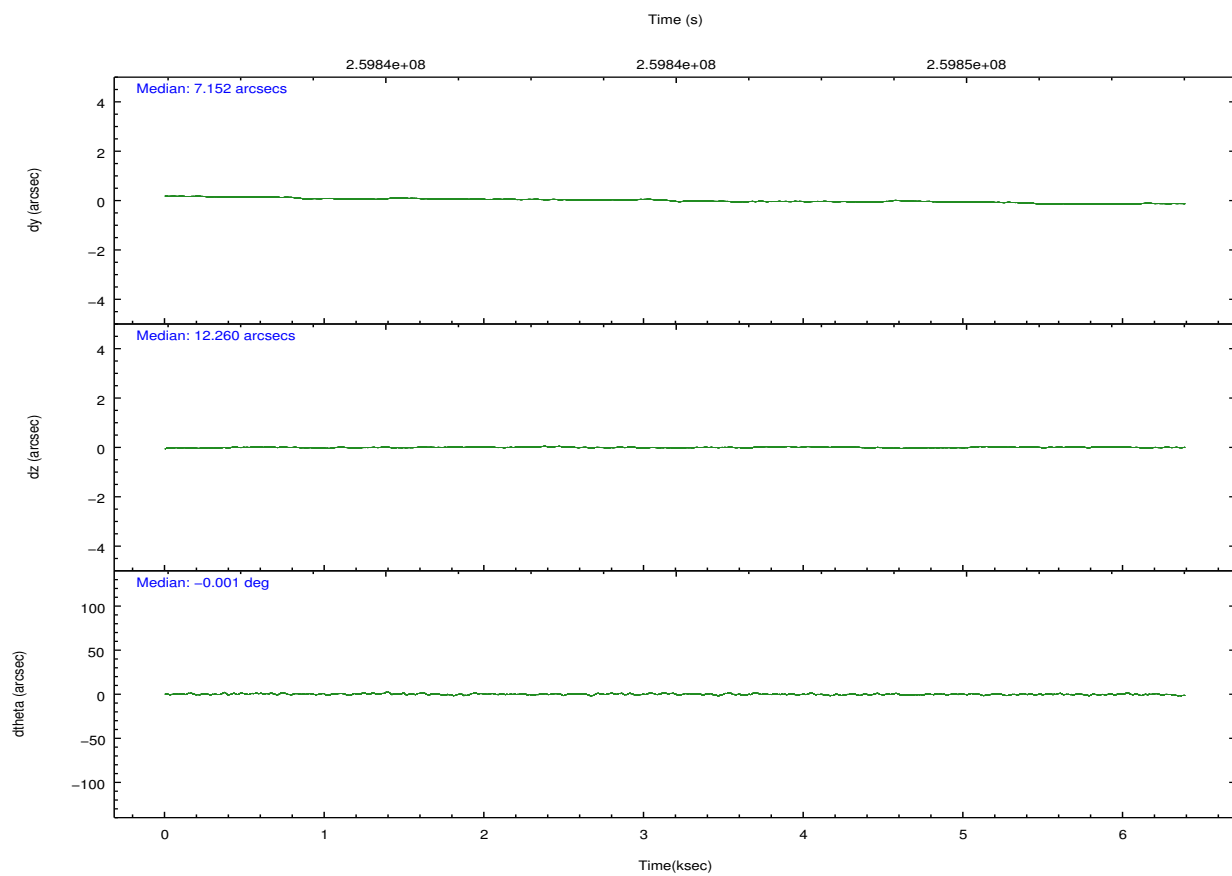
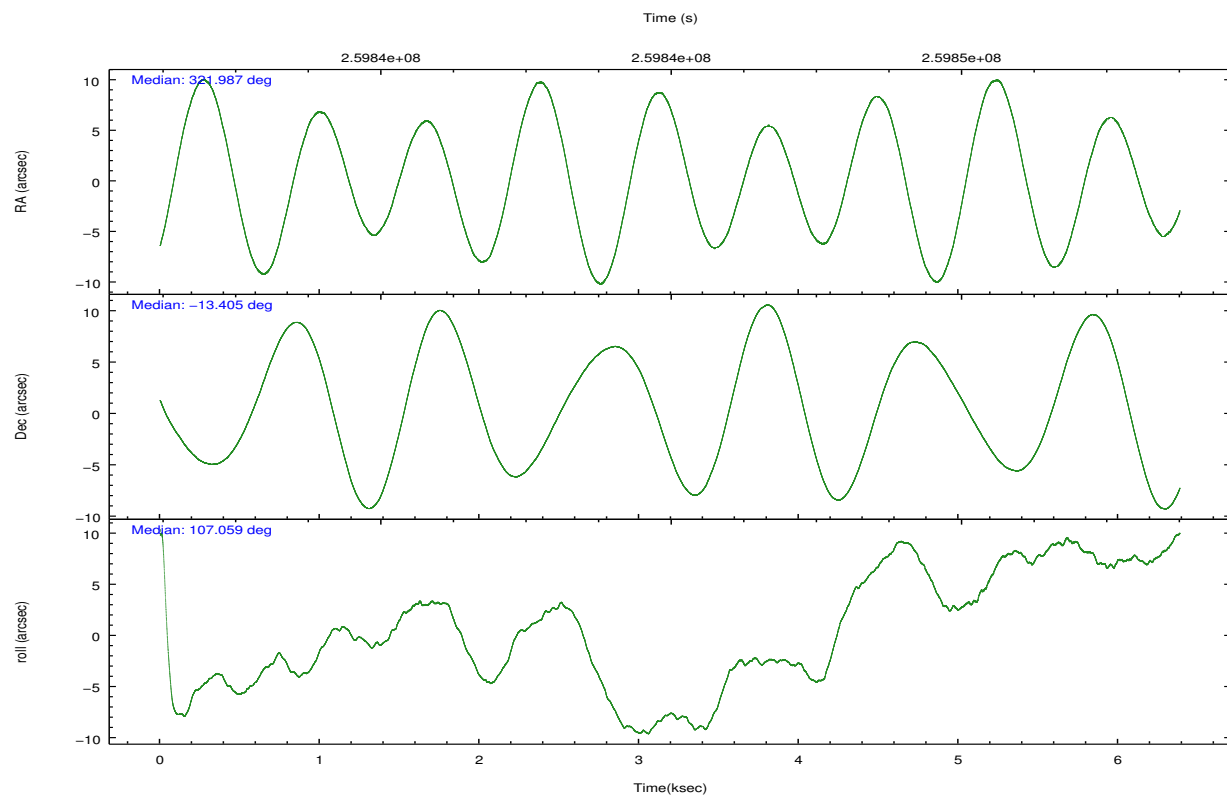
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29627	31926	33211	32366	34235	40809	grade 0 events	1535	3289	1602	1541	1431	1619
rejected events	26030	26573	29699	28888	30555	24610		5%	10%	4%	4%	4%	3%
rejected %	87%	83%	89%	89%	89%	60%	grade 1 events	29	23	22	19	14	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	786	803	701	654	809	3450
								2%	2%	2%	2%	2%	8%
							grade 3 events	423	449	414	421	427	1561
								1%	1%	1%	1%	1%	3%
							grade 4 events	394	374	418	420	419	1611
								1%	1%	1%	1%	1%	3%
							grade 5 events	1207	1296	1200	1470	1528	3962
								4%	4%	3%	4%	4%	9%
							grade 6 events	611	689	588	612	770	8772
								2%	2%	1%	1%	2%	21%
							grade 7 events	24642	25003	28266	27229	28837	19788
								83%	78%	85%	84%	84%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	322.007112	321.9864329983186	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-13.423028	-13.40452854563616	Subarray start row	513	513
[deg] Pointing Roll	106.864384	107.0682586170358	Subarray row count	512	512
[s] Window start time (MET)	258076865.184000	258076865.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	261705665.184000	261705665.184000	[s] Primary exposure time	0.000000	1.8
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	259840992.184000	259840616.08361			
Observation start date	2006-03-27T10:02:07	2006-03-27T09:56:56			
[s] Observation end time (MET)	259847192.184000	259847326.24642			
Observation end date	2006-03-27T11:45:27	2006-03-27T11:48:46			
Read mode	TIMED	TIMED			

2.3 Aspect



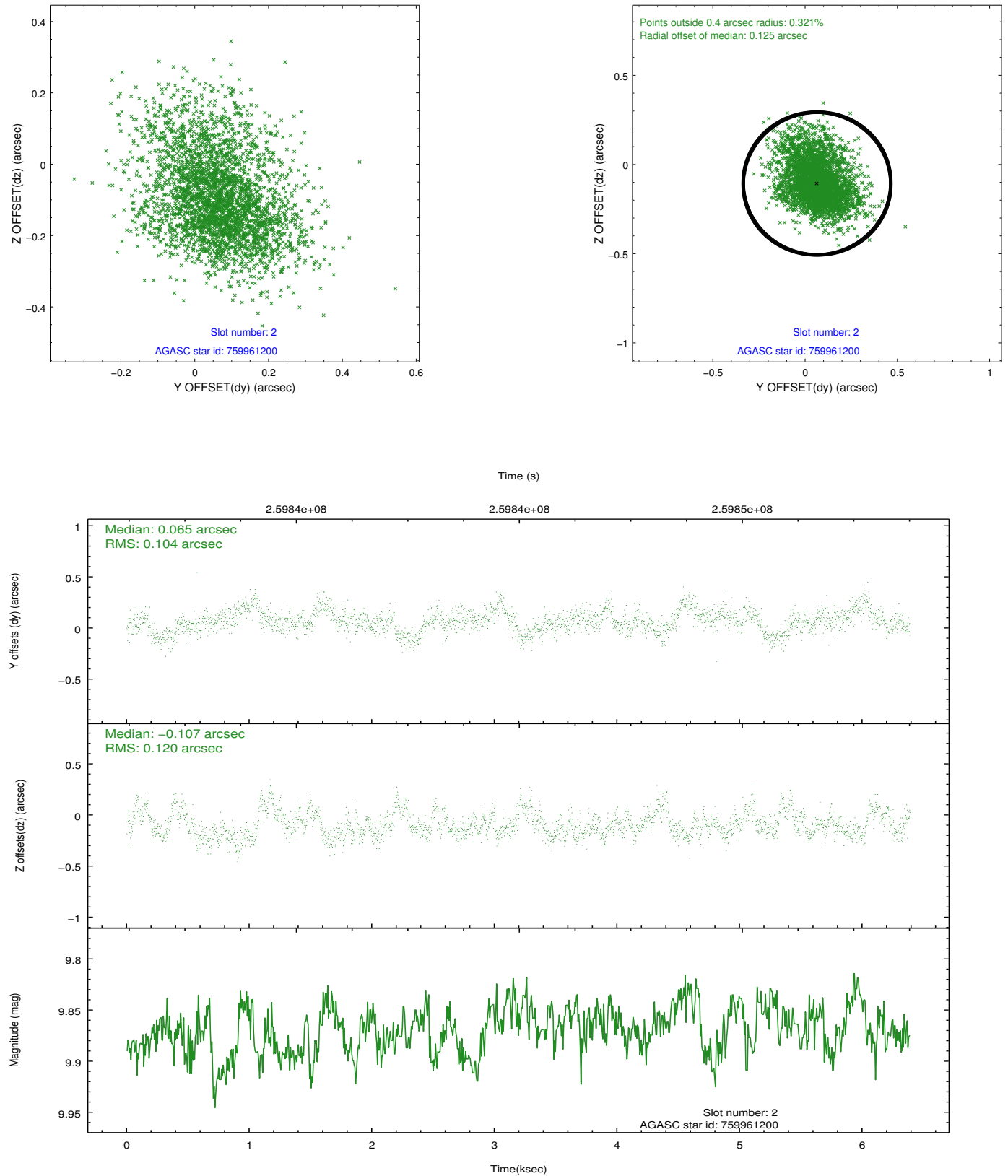


Slot Statistics

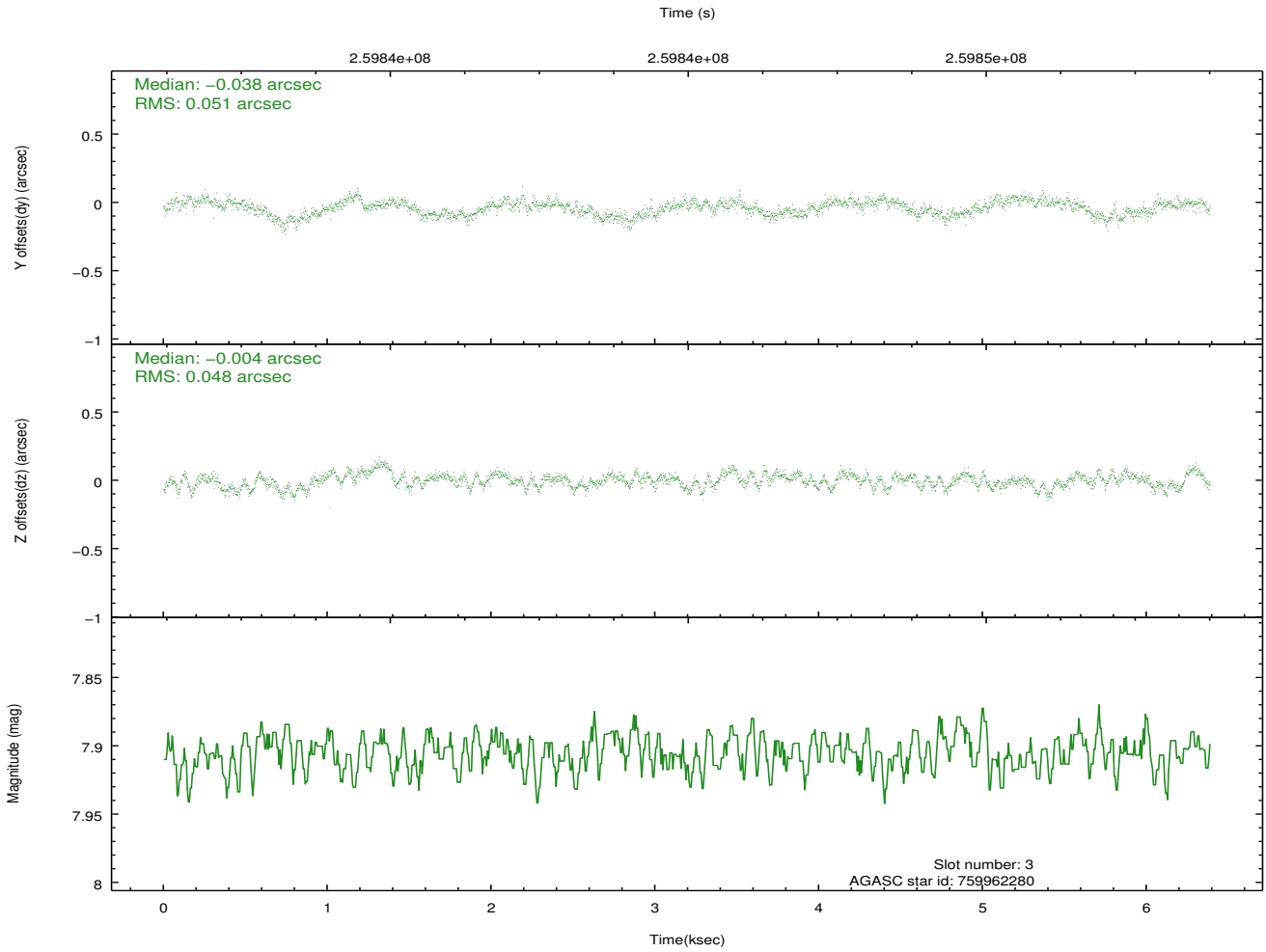
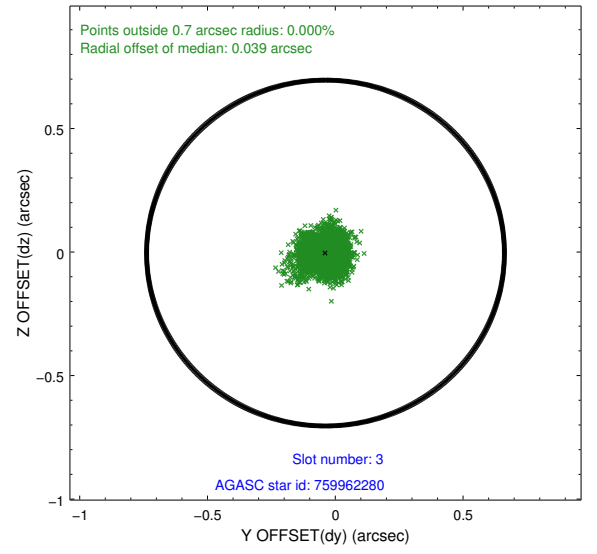
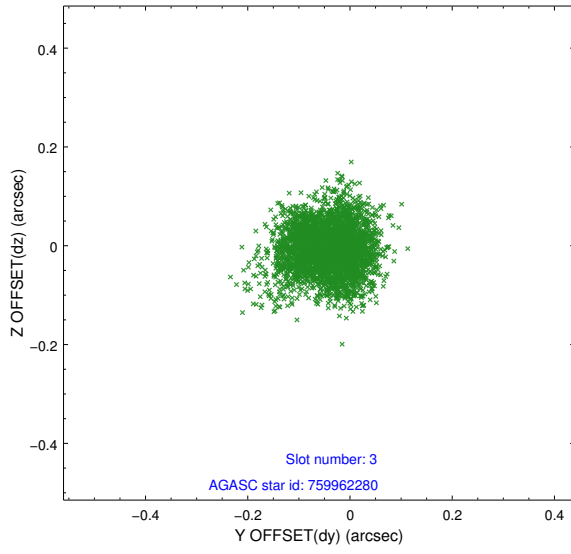
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1558	0.023	-0.077	0.009	0.016	0.000000	0.000000	-761.65	-842.21
1	FID	ACIS-I-5	7.23	1558	-0.086	0.125	0.009	0.016	0.000000	0.000000	-1816.23	1061.39
2	GUIDE	759961200	9.87	3112	0.065	-0.107	0.168	0.286	321.872560	-14.109246	-2227.51	1166.08
3	GUIDE	759962280	7.91	3117	-0.038	-0.004	0.074	0.118	322.001957	-13.698366	-943.94	305.46
4	GUIDE	759962368	9.13	3116	0.146	0.234	0.096	0.157	322.267195	-13.797795	-1554.95	-478.30
5	GUIDE	759962960	8.43	3114	-0.096	0.091	0.080	0.380	321.922663	-13.562736	-395.67	428.81
6	GUIDE	758253496	9.76	3106	-0.061	-0.276	0.160	0.267	321.358592	-13.614283	-3.42	2372.00
7	GUIDE	758253320	9.66	3096	-0.017	0.045	0.141	0.227	321.577816	-13.572361	-79.58	1595.04

2.4 Star Slots

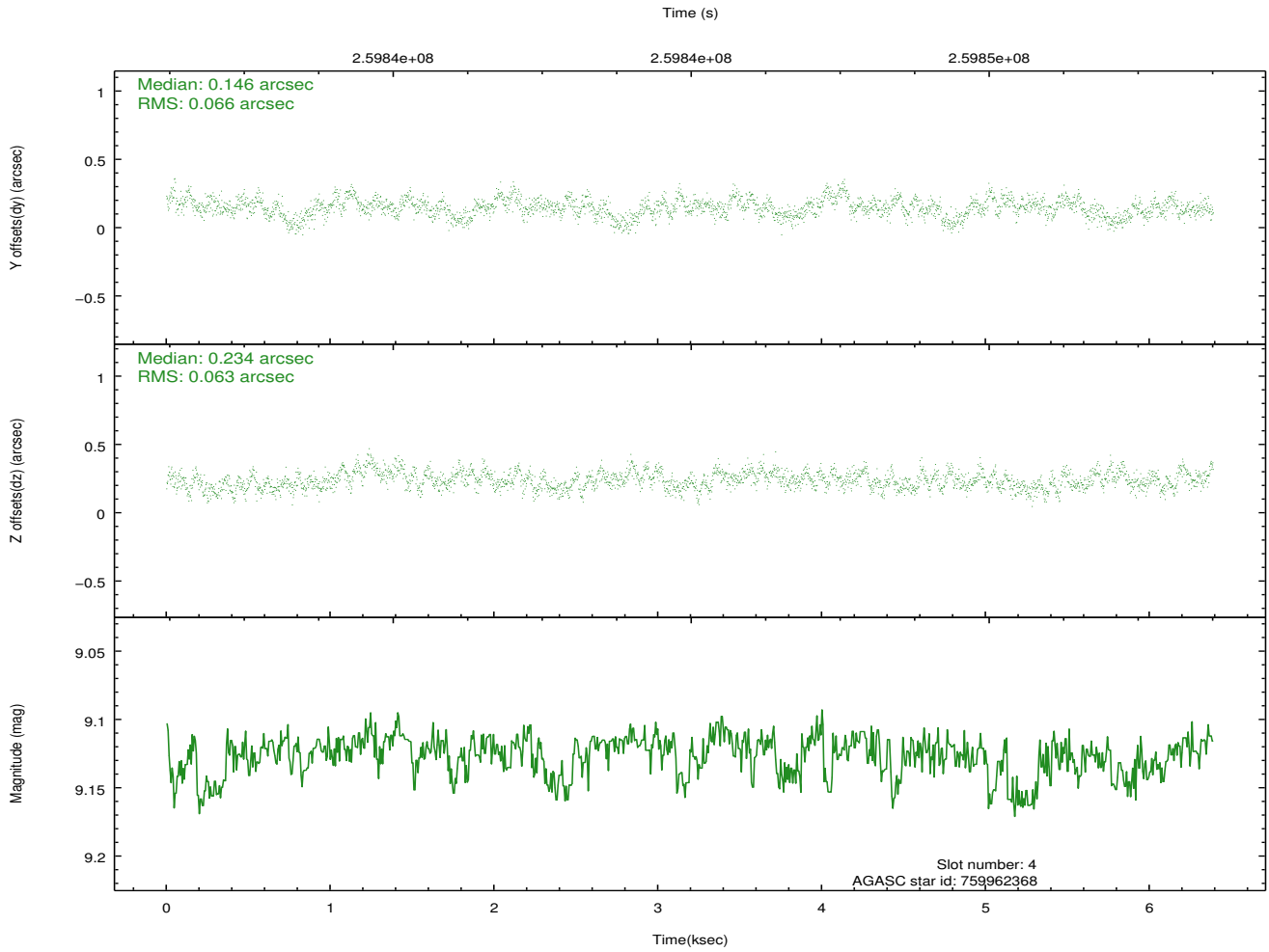
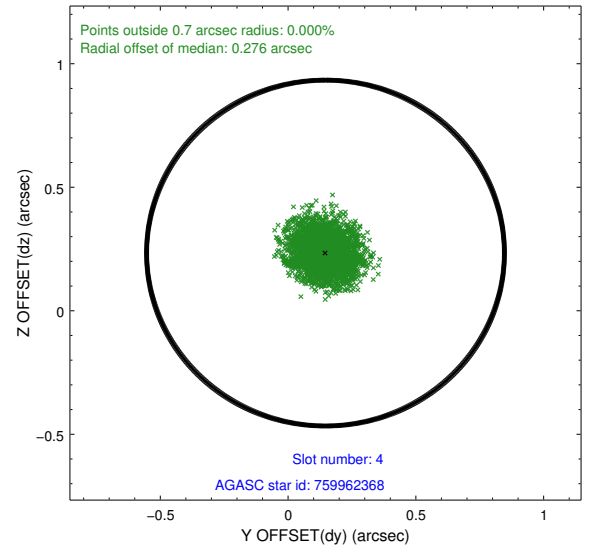
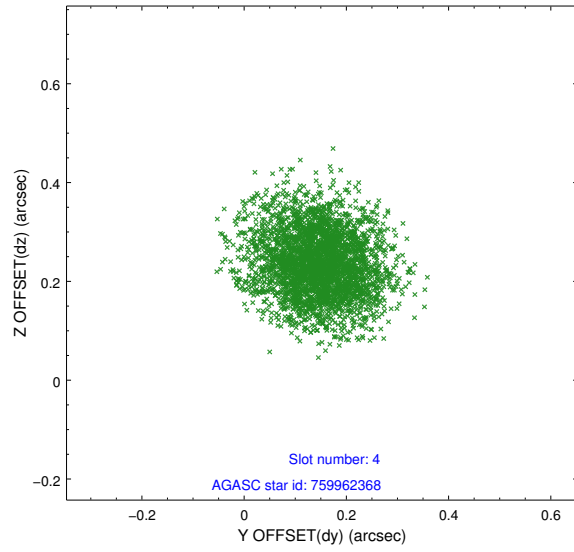
2.4.1 Slot 2



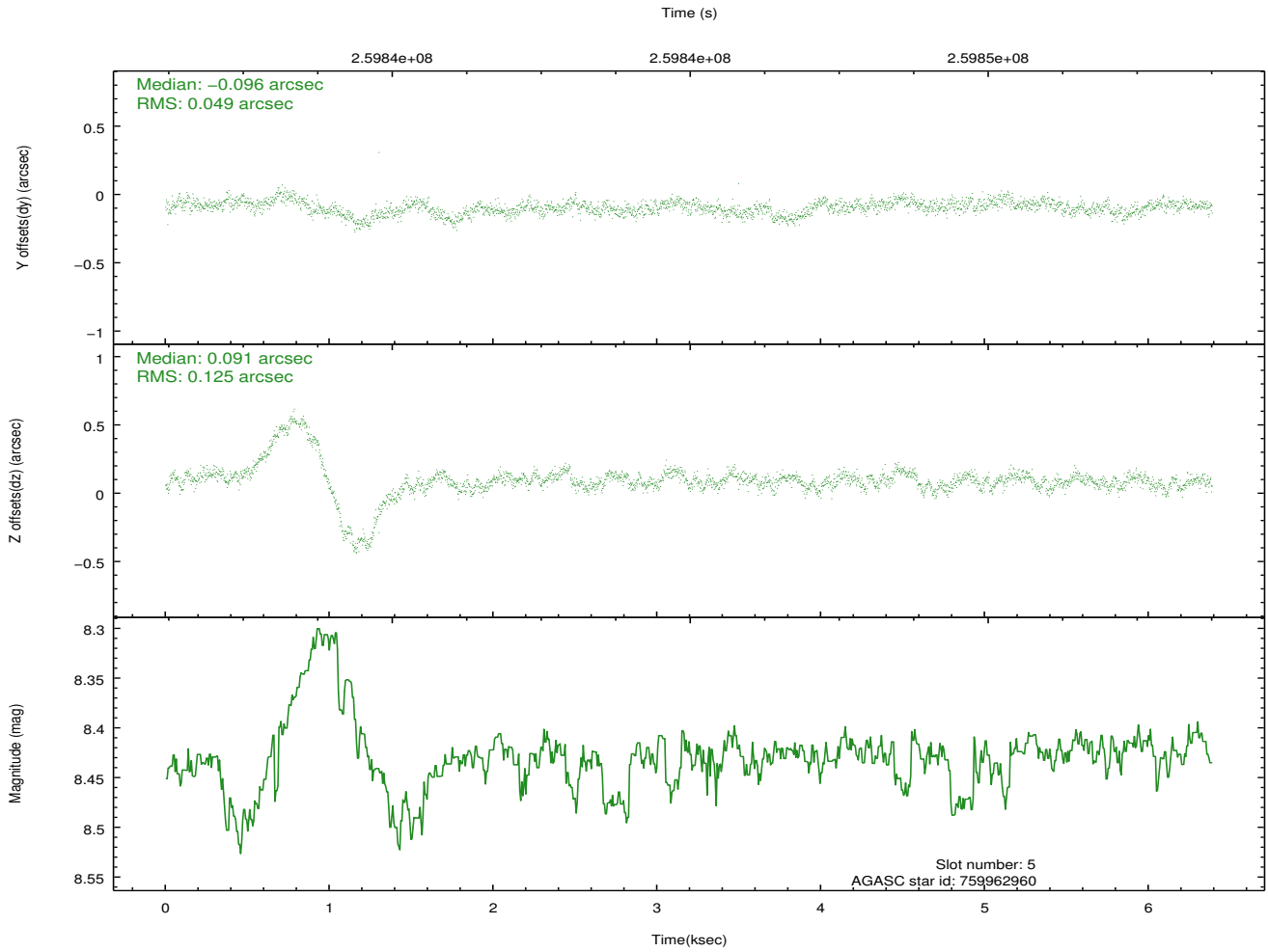
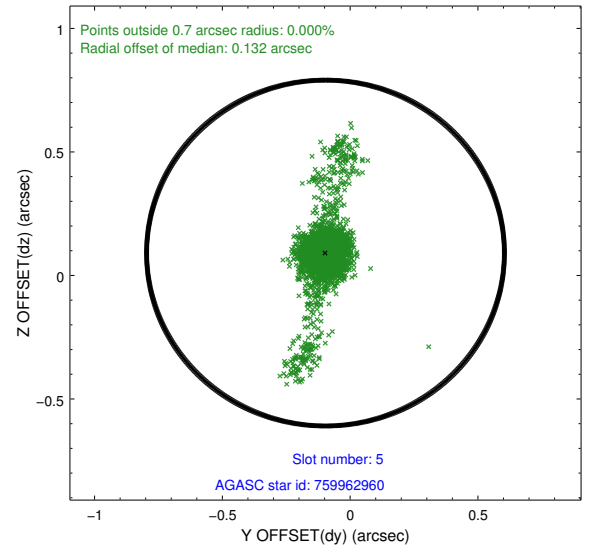
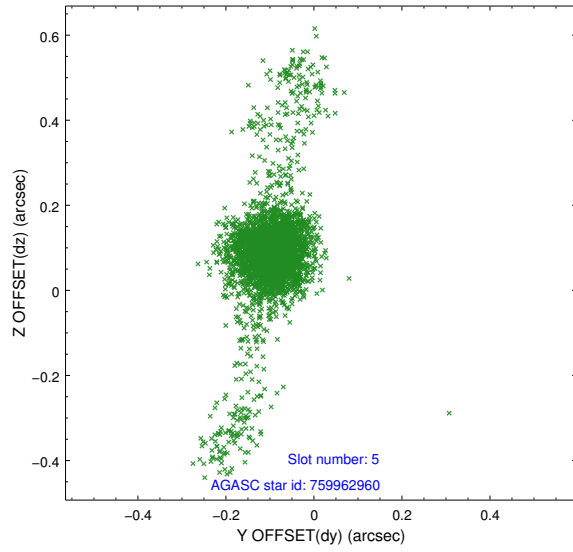
2.4.2 Slot 3



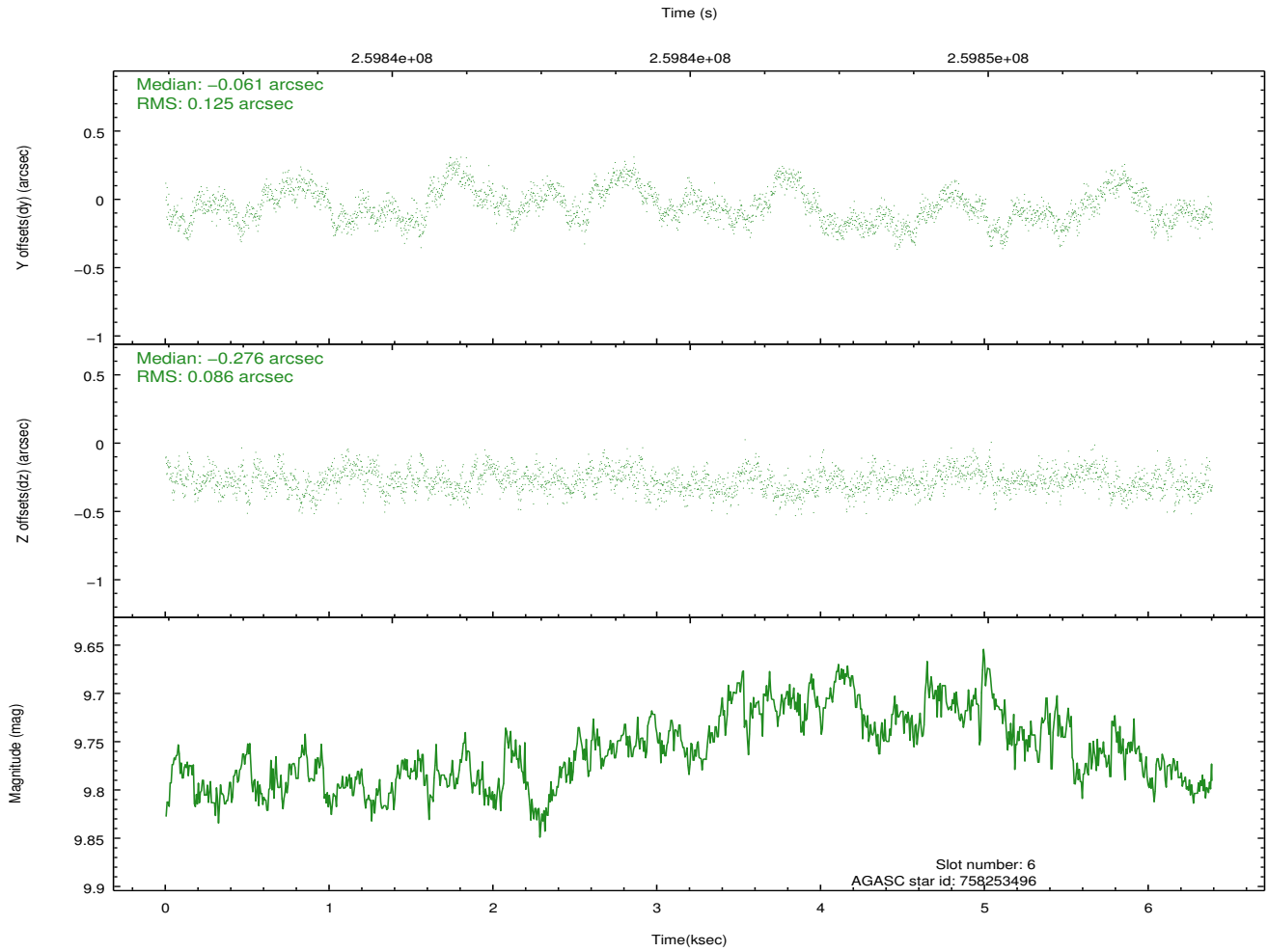
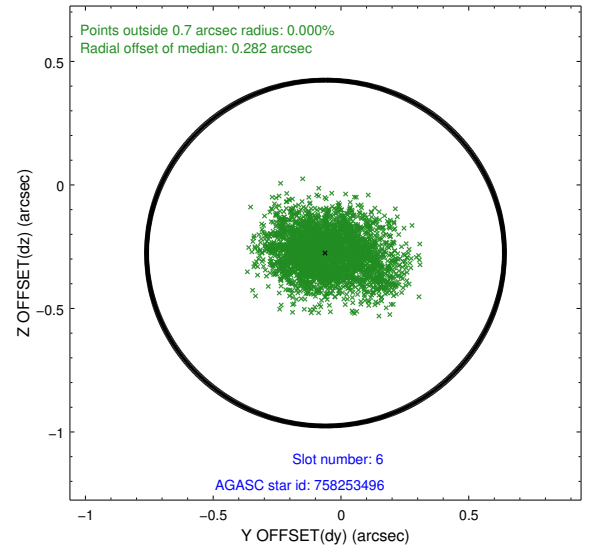
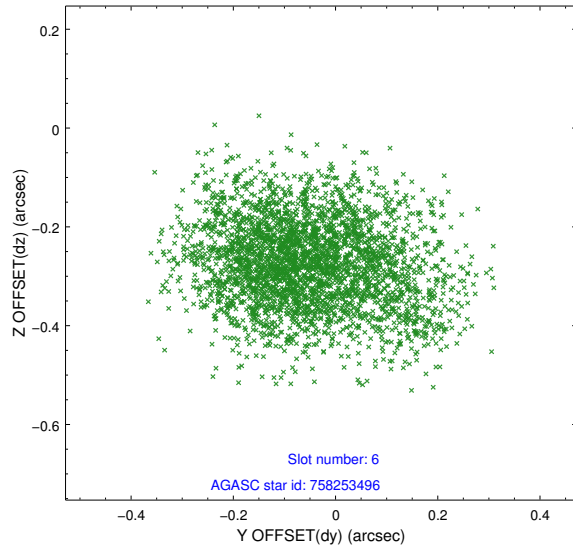
2.4.3 Slot 4



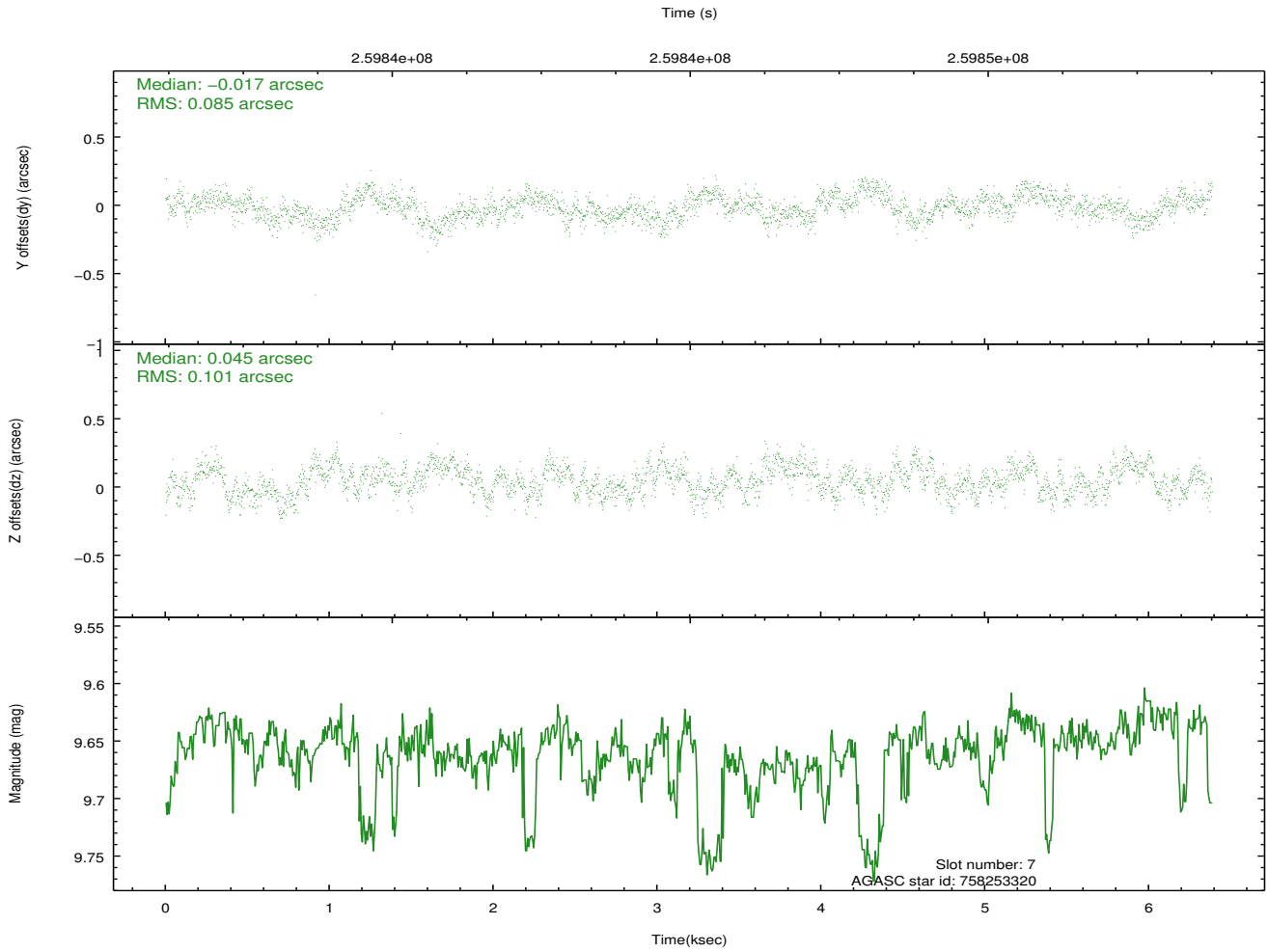
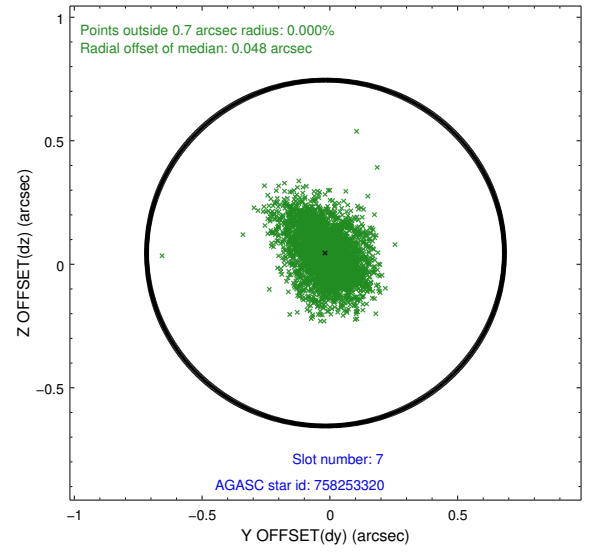
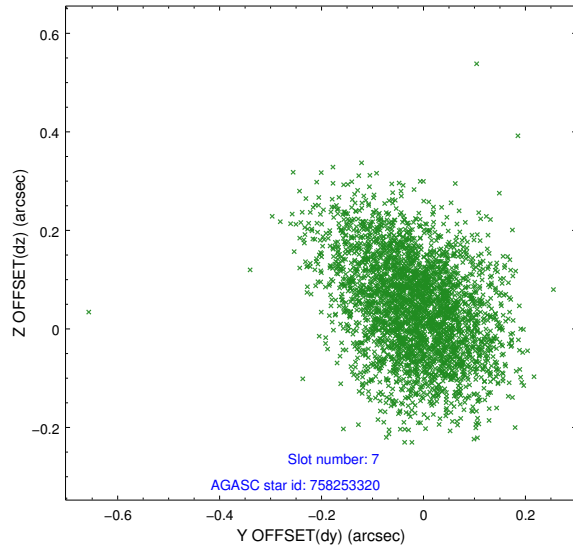
2.4.4 Slot 5



2.4.5 Slot 6

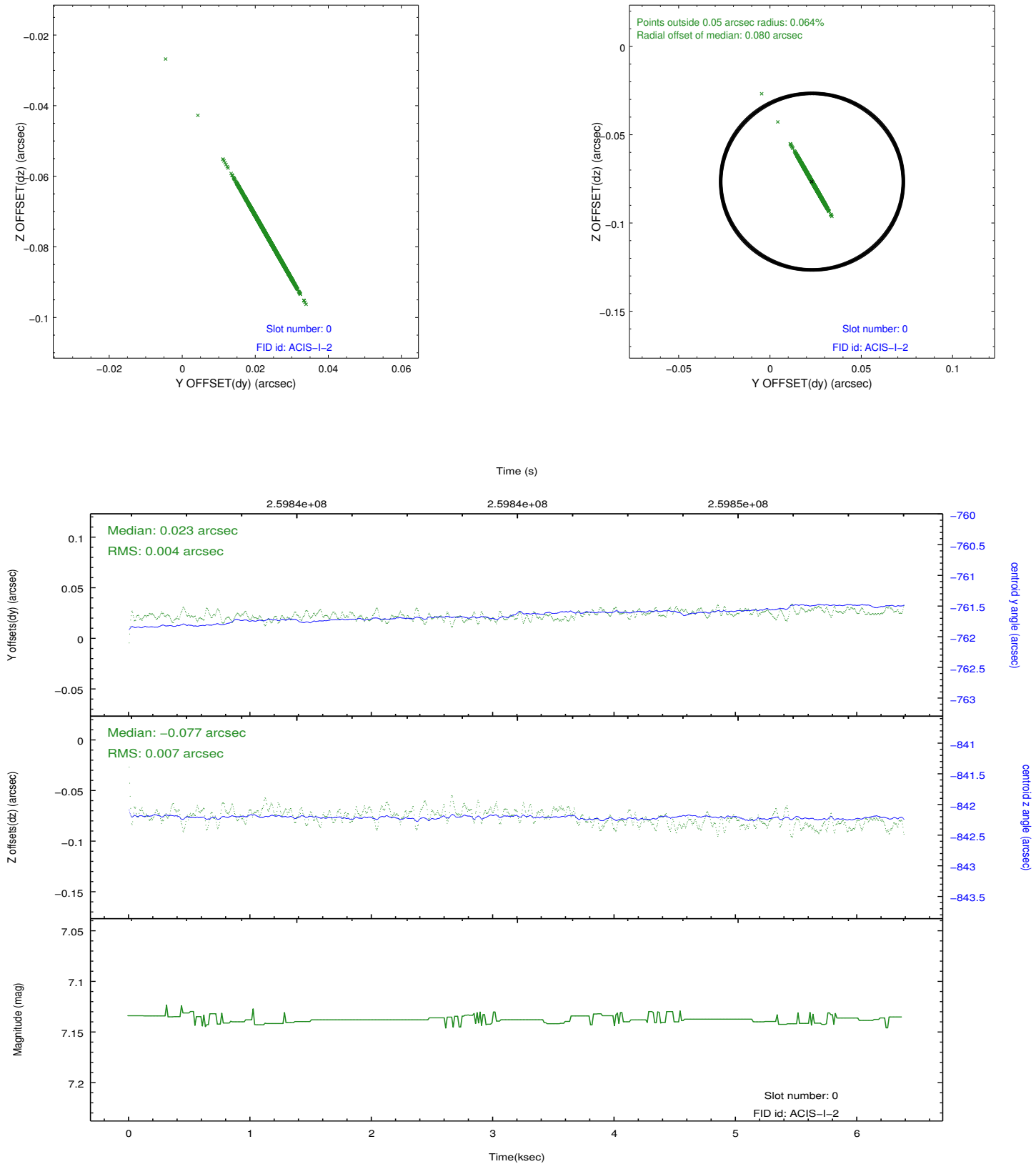


2.4.6 Slot 7

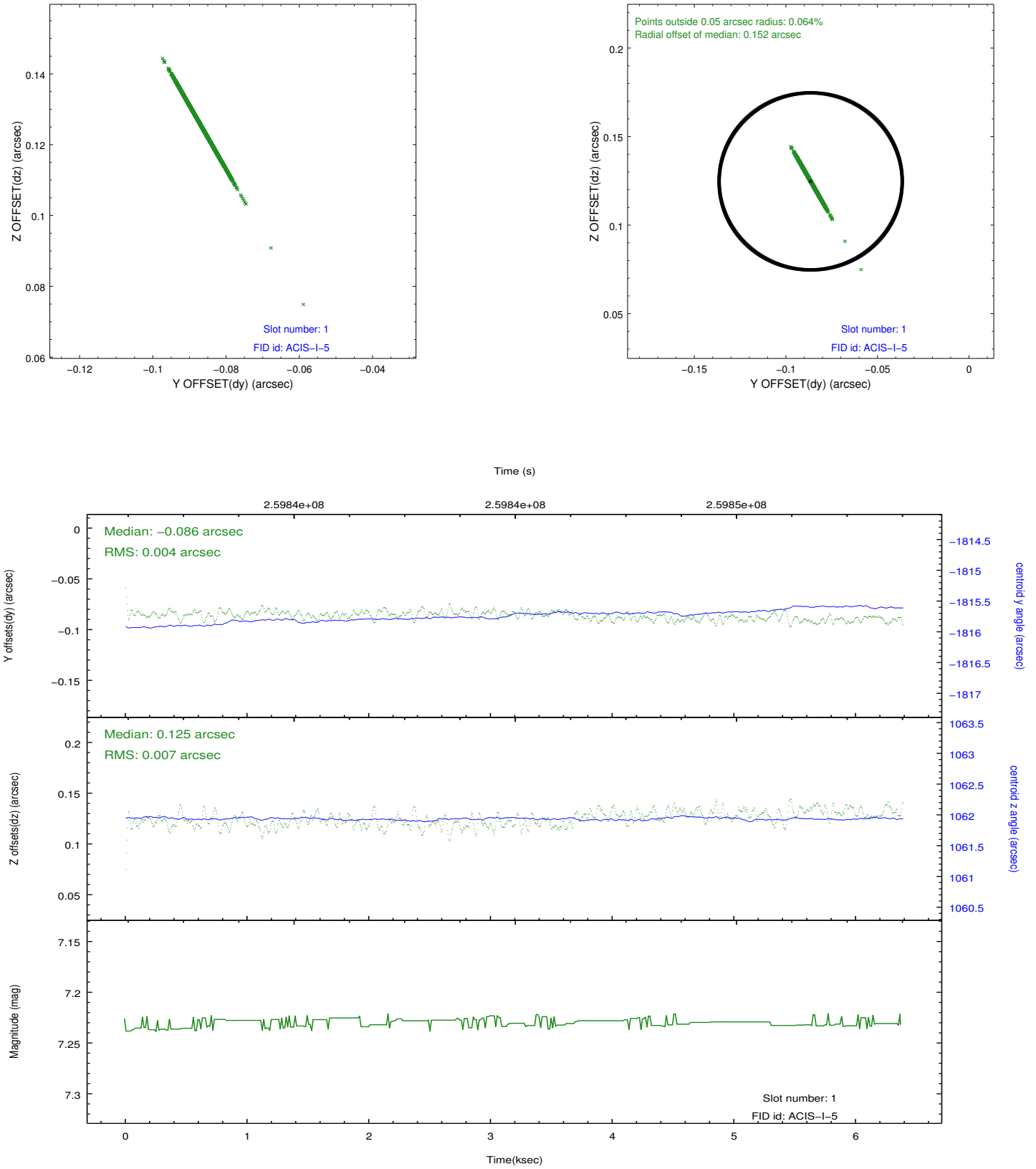


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.38640004

A.2 Comments

Window preference met.