

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18316 - L2 Version 1
Chandra X-Ray Center

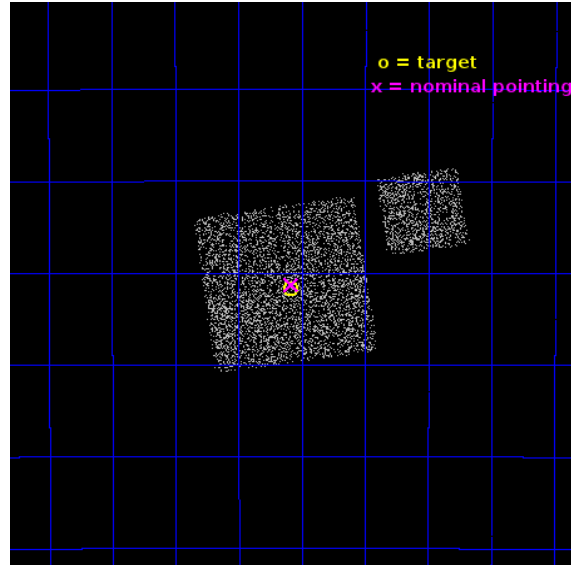
L2 Processing Date : May 11 2016

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1 Front

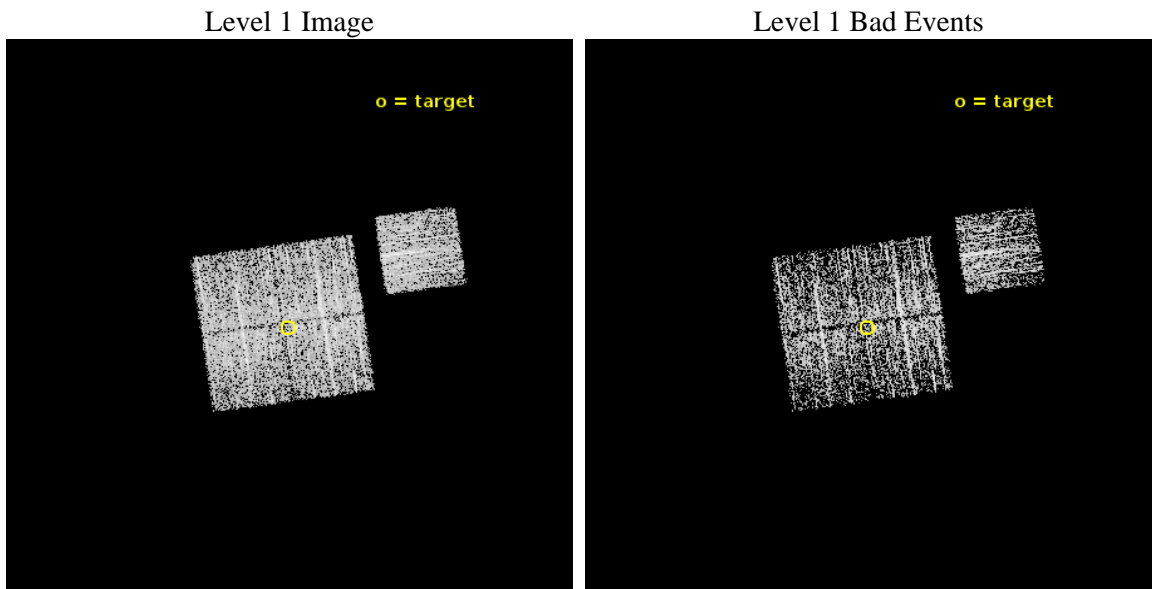
seq_num	300347	Sequence number
obs_id	18316	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.64751	Observer's specified target RA [deg]
dec_targ	-28.02839	Observer's specified target Dec [deg]
ra_nom	265.64556984282	Nominal RA [deg]
dec_nom	-28.021607326252	Nominal Dec [deg]
roll_nom	81.84433381917	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.316003561	Sum of GTIs [s]
livetime	1929.7683604918	Livetime [s]
ontime0	1955.1928836107	Sum of GTIs [s]
ontime1	1955.2339235544	Sum of GTIs [s]
ontime2	1955.2749534845	Sum of GTIs [s]
ontime3	1955.316003561	Sum of GTIs [s]
ontime6	1955.1518435478	Sum of GTIs [s]
l2events	6880	Number of level 2 events



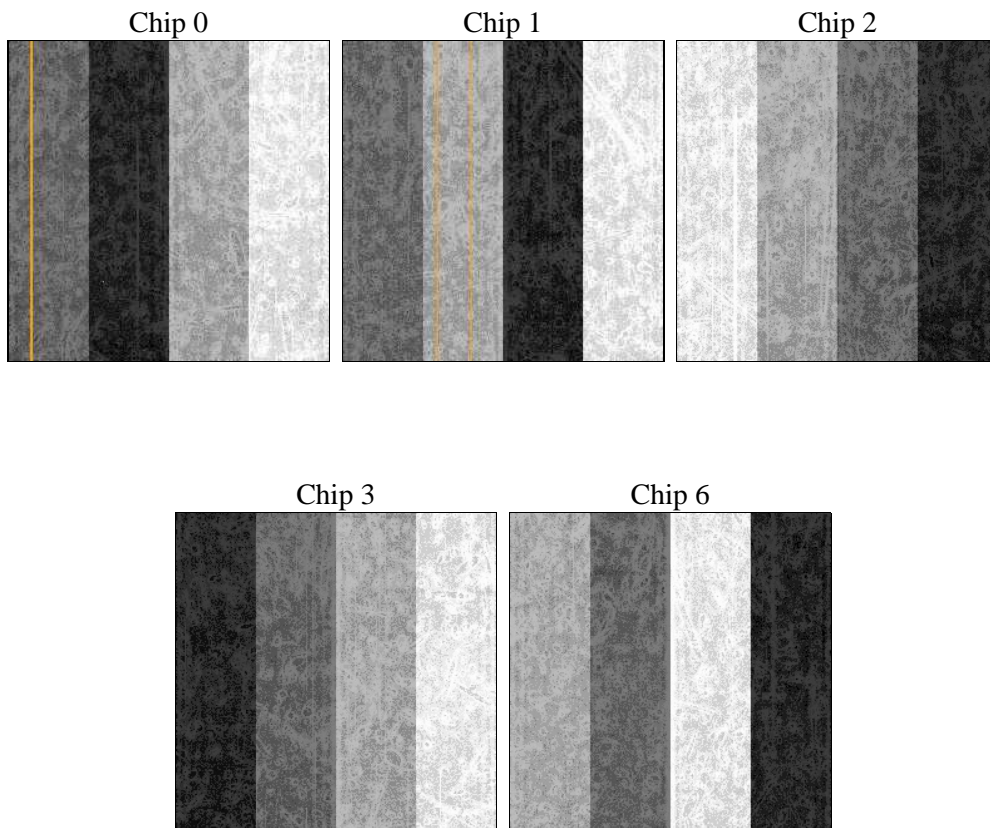
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	1955.316003561	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	1955.1928836107	Sum of GTIs [s]
date	2016-05-11T15:44:00	Date and time of file creation	ontime1	1955.2339235544	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.2749534845	Sum of GTIs [s]
			ontime3	1955.316003561	Sum of GTIs [s]
			ontime6	1955.1518435478	Sum of GTIs [s]
			l1events	61410	Number of level 1 events

2.1.4 Events

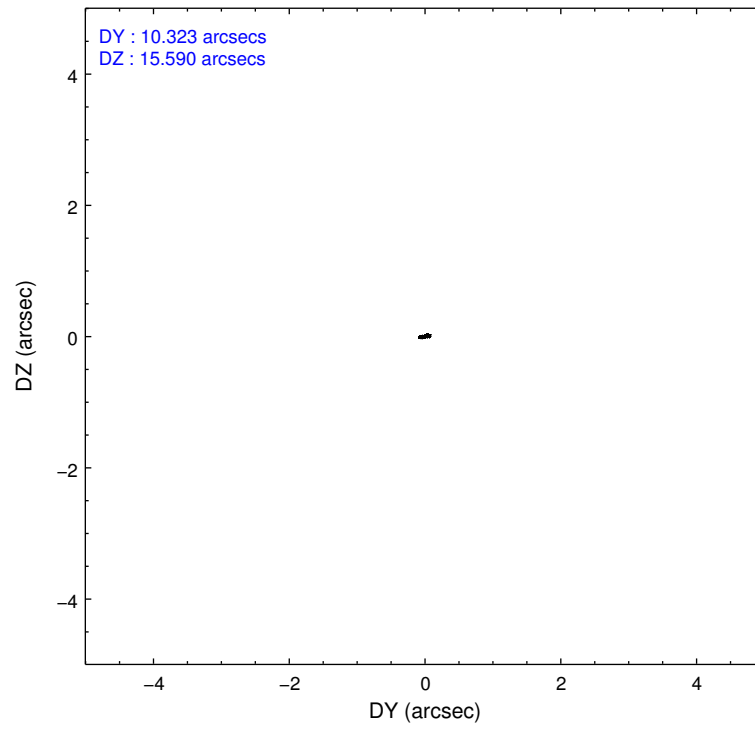
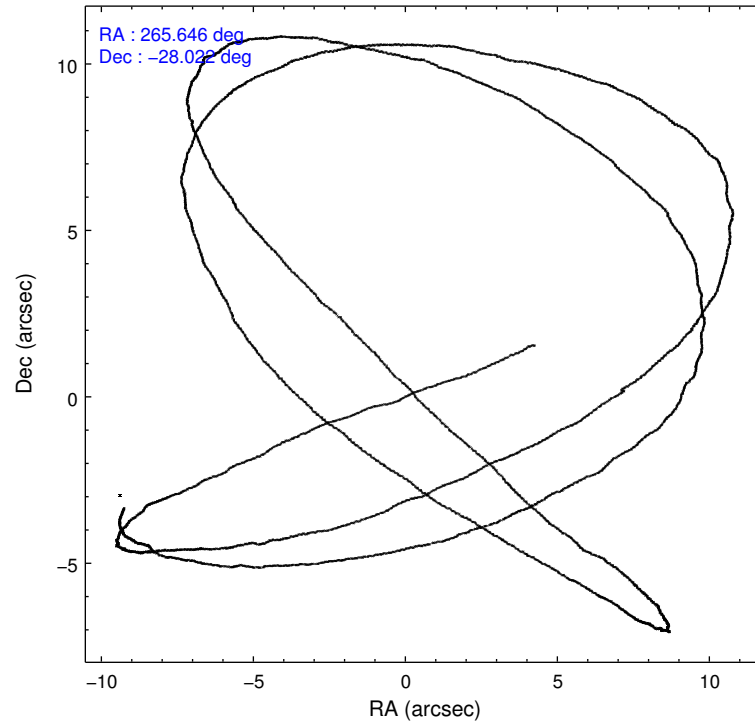
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11578	11186	13230	12454	12962
rejected events	10071	9374	11672	10918	11364
rejected %	86%	83%	88%	87%	87%

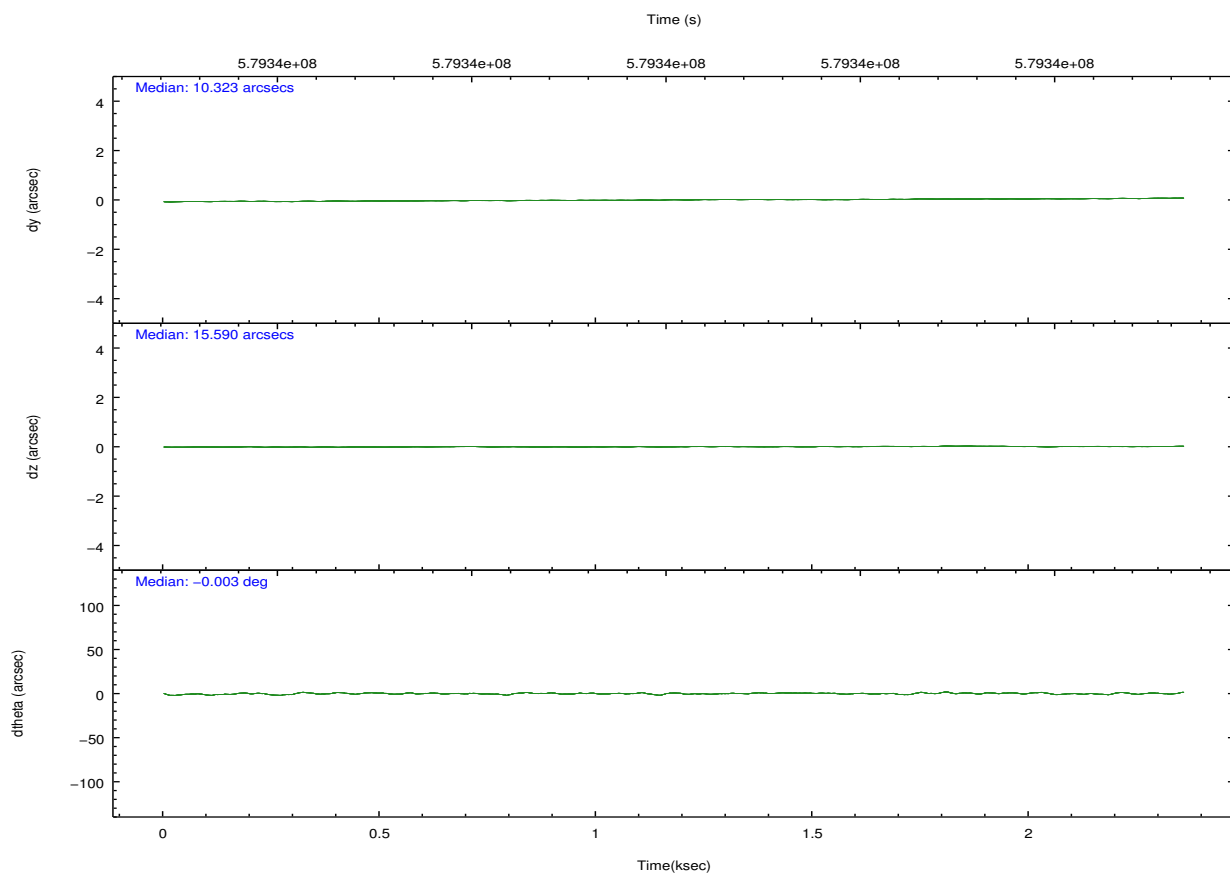
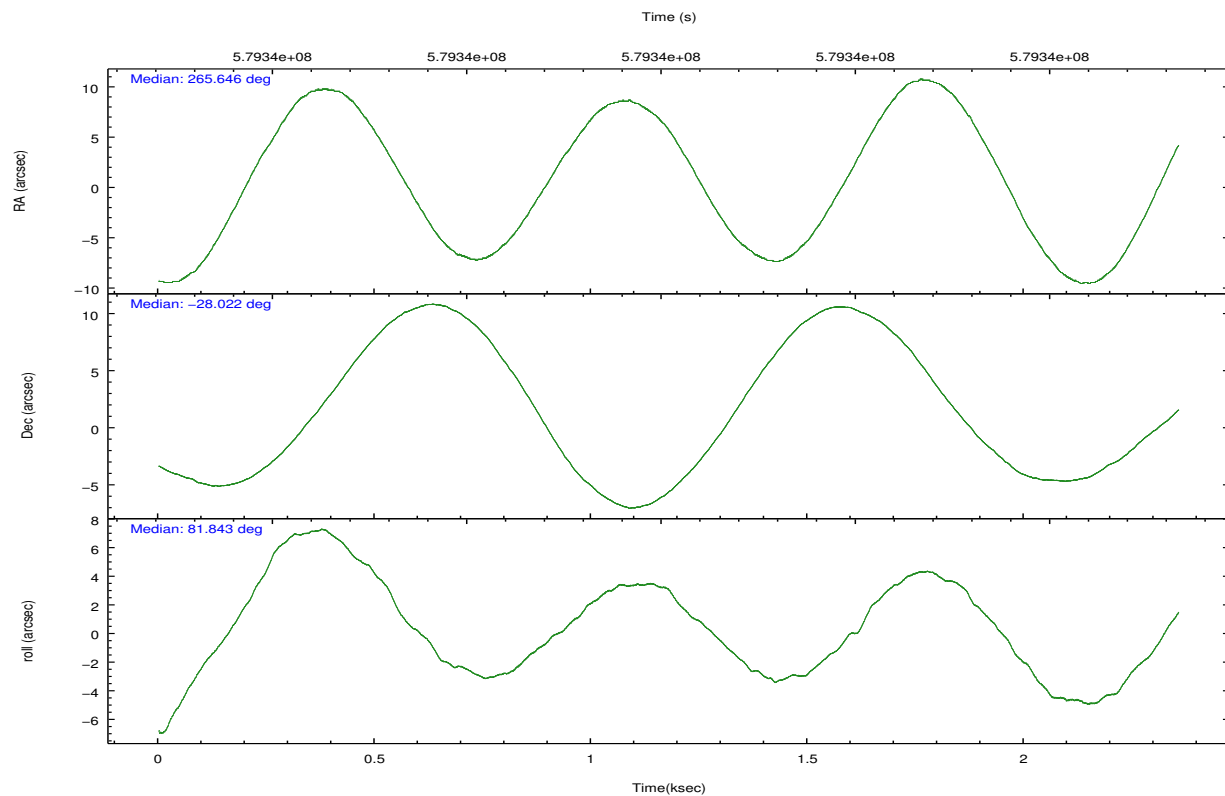
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	579	708	644	624	620
	5%	6%	4%	5%	4%
grade 1 events	8	2	7	9	8
	0%	0%	0%	0%	0%
grade 2 events	363	439	353	304	335
	3%	3%	2%	2%	2%
grade 3 events	148	149	147	162	152
	1%	1%	1%	1%	1%
grade 4 events	128	173	153	168	161
	1%	1%	1%	1%	1%
grade 5 events	491	560	483	618	576
	4%	5%	3%	4%	4%
grade 6 events	290	346	263	279	334
	2%	3%	1%	2%	2%
grade 7 events	9571	8809	11180	10290	10776
	82%	78%	84%	82%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	265.657536	265.6455698428231	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.046985	-28.02160732625227	CCD I3 on	Y	Y
[deg] Pointing Roll	81.641271	81.84433381917009	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	579342516.184000	579342139.77214	CCD S5 on	N	N
Observation start date	2016-05-11T08:27:28	2016-05-11T08:22:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579344696.184000	579344830.3973	On-chip summing requested	N	N
Observation end date	2016-05-11T09:03:48	2016-05-11T09:07:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



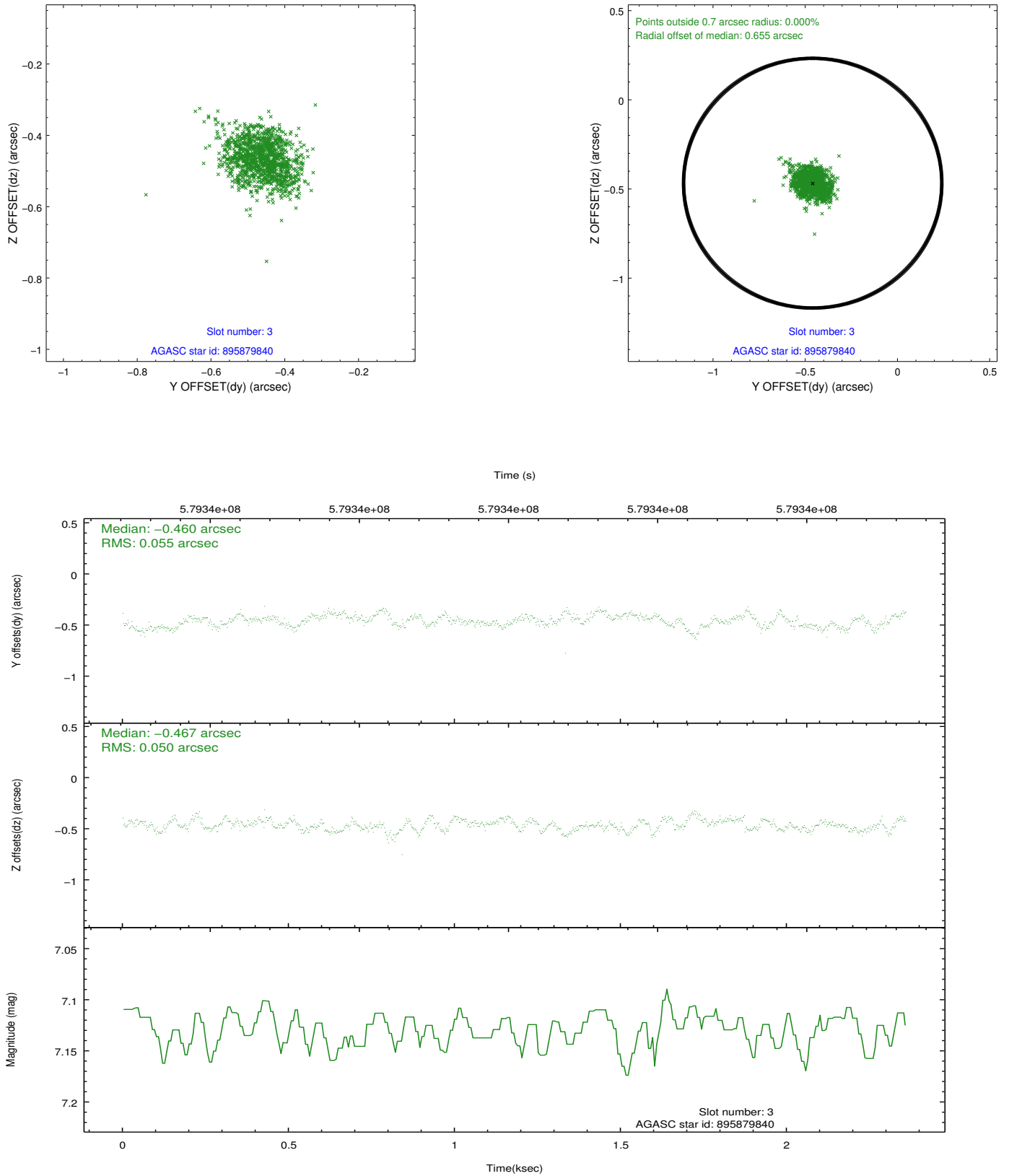


Slot Statistics

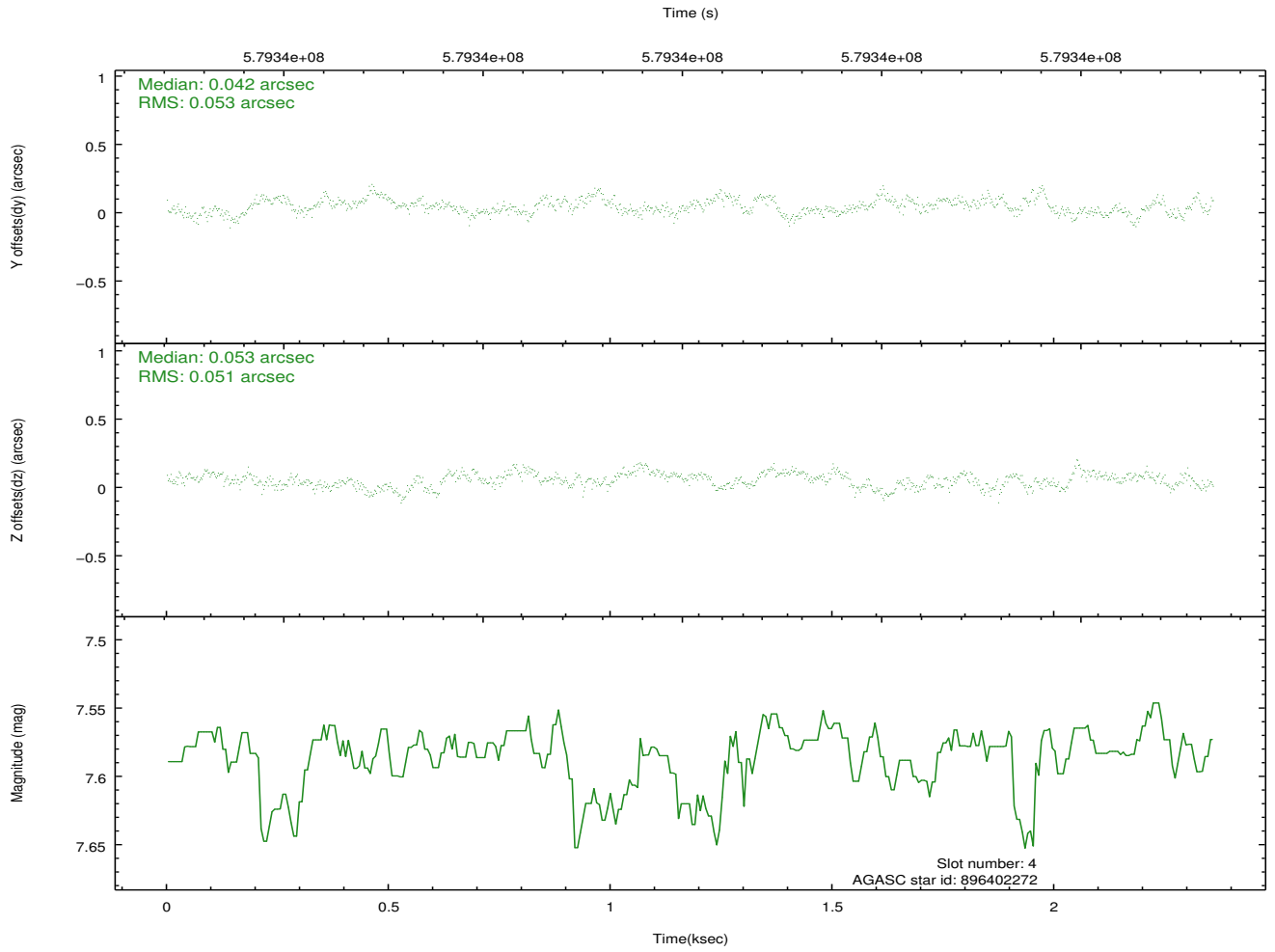
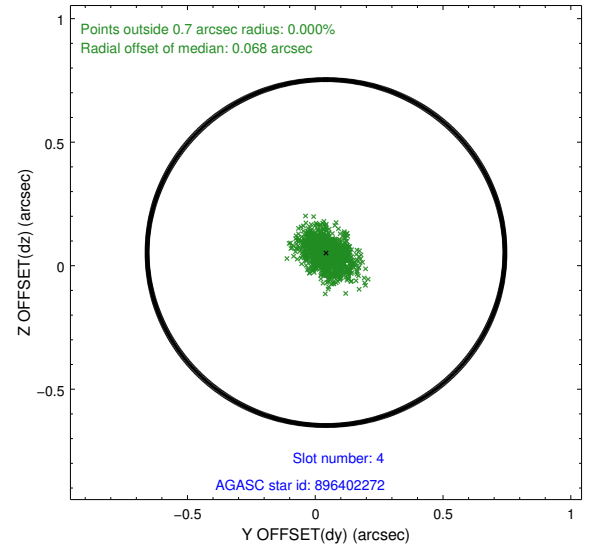
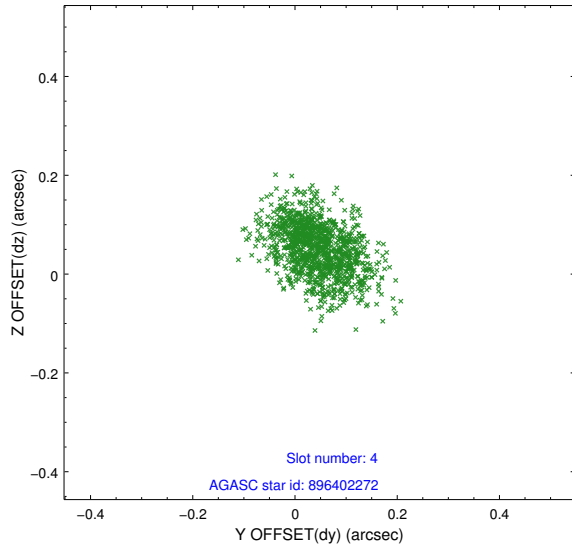
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-4	7.18	575	0.229	0.016	0.009	0.015	0.000000	0.000000	2149.43	1060.74
1	FID		ACIS-I-5	7.24	575	-0.375	-0.001	0.007	0.012	0.000000	0.000000	-1815.59	1060.15
2	FID		ACIS-I-6	7.25	575	0.047	0.052	0.010	0.017	0.000000	0.000000	391.83	1704.59
3	GUIDE	used	895879840	7.13	1151	-0.460	-0.467	0.078	0.120	265.218397	-27.395778	2113.20	1728.64
4	GUIDE	used	896402272	7.58	1151	0.042	0.053	0.079	0.126	265.637294	-28.313189	-954.59	-74.76
5	GUIDE	used	896404568	7.83	1150	0.148	0.050	0.069	0.110	265.687293	-28.431080	-1354.04	-294.71
6	GUIDE	used	896532680	8.74	1150	0.019	0.121	0.093	0.147	266.342632	-28.496299	-1291.48	-2381.20
7	GUIDE	used	896538696	6.80	1150	0.254	0.246	0.063	0.099	266.298470	-28.325572	-702.14	-2158.39

2.4 Star Slots

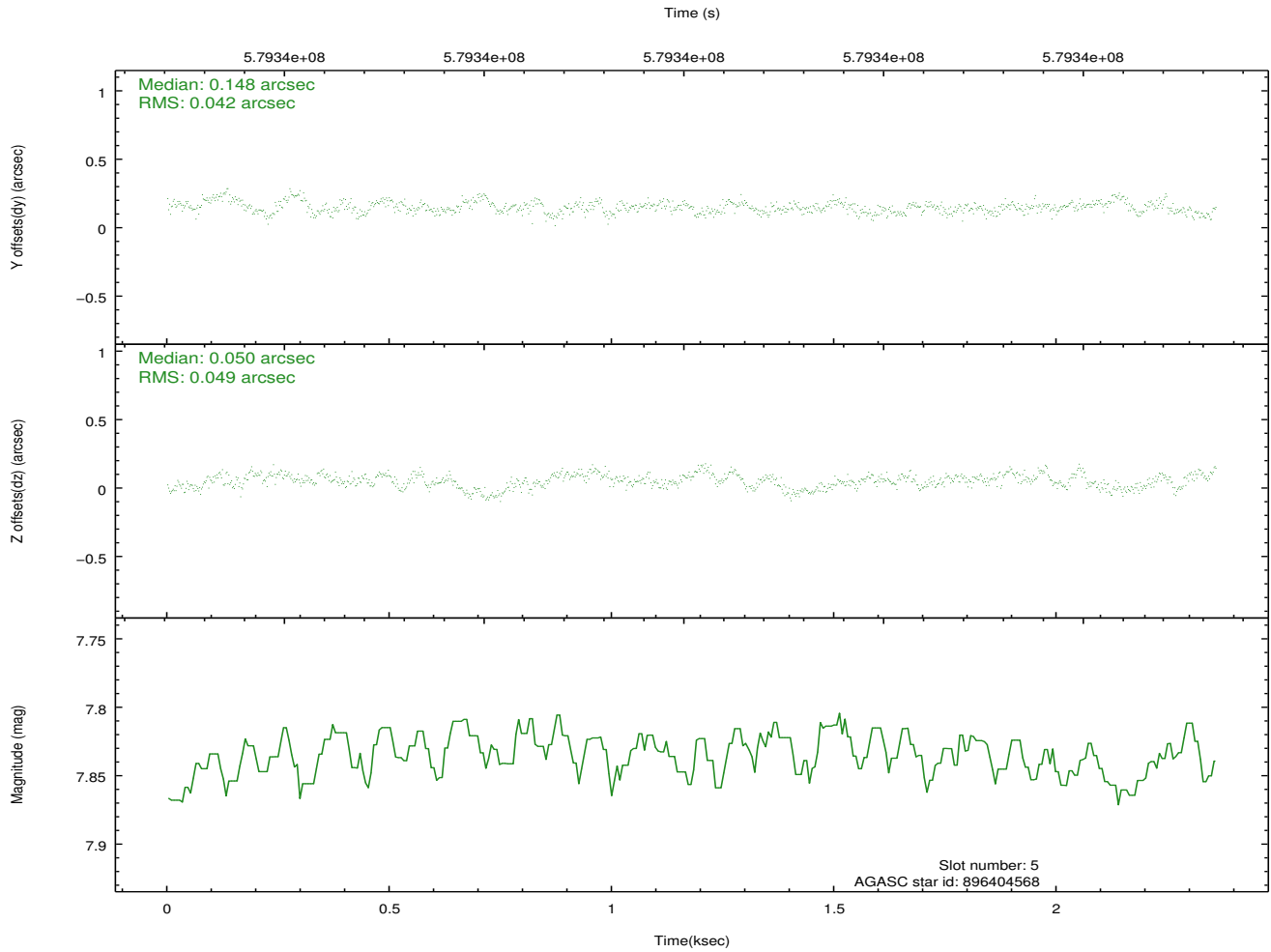
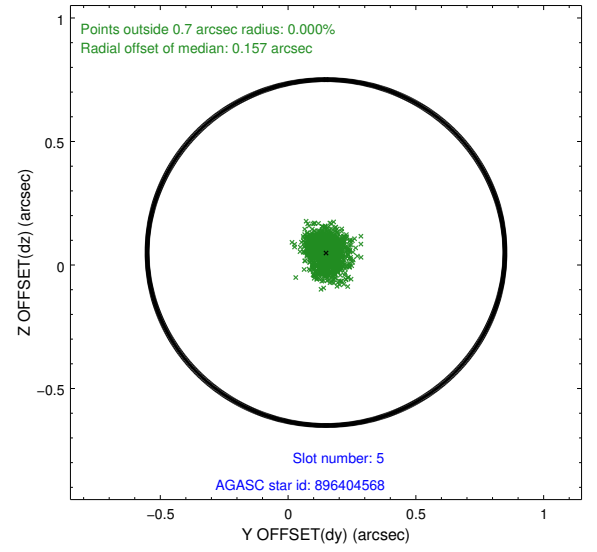
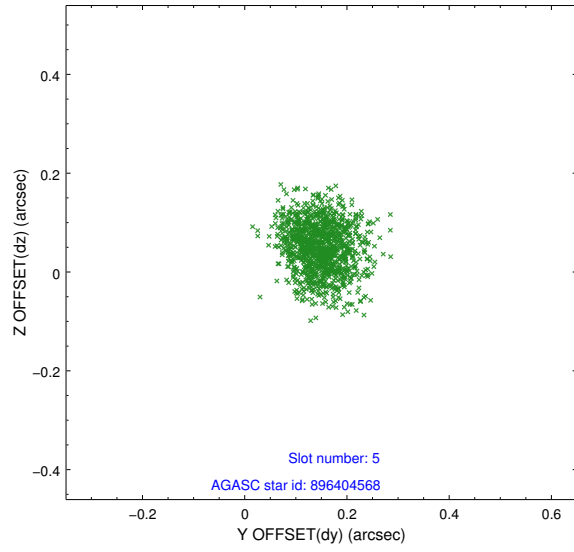
2.4.1 Slot 3



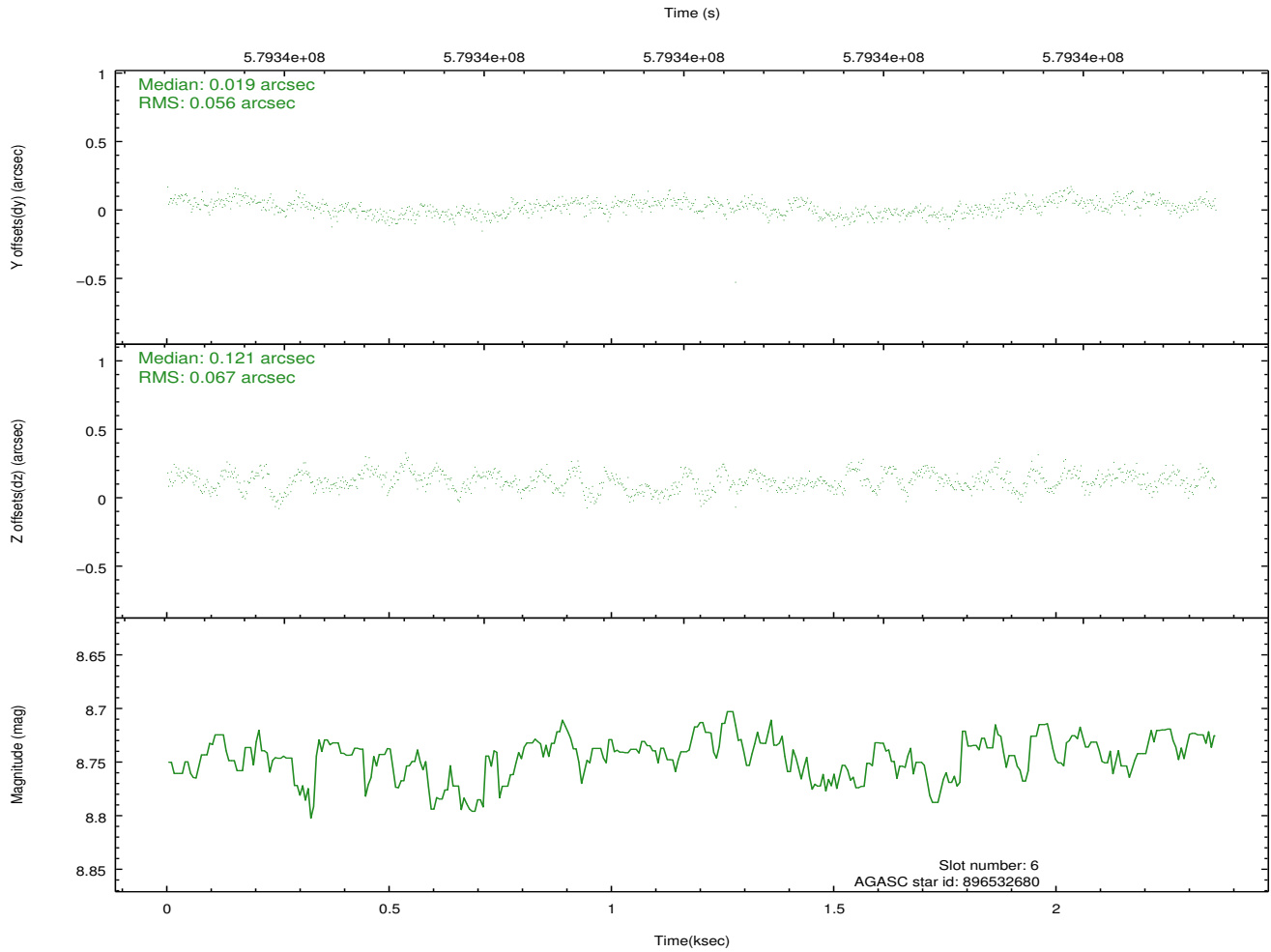
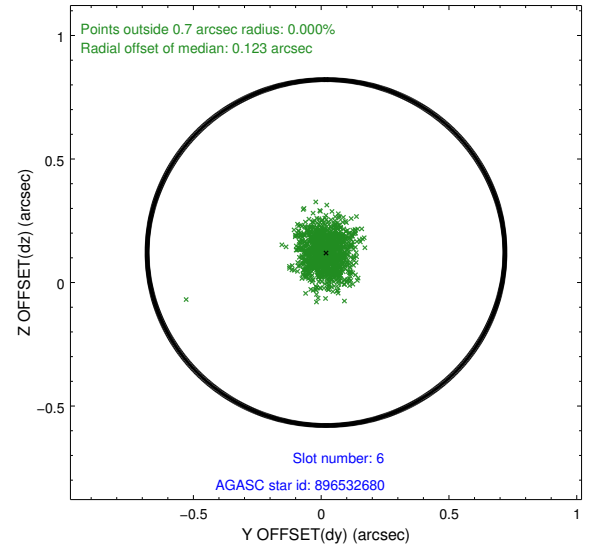
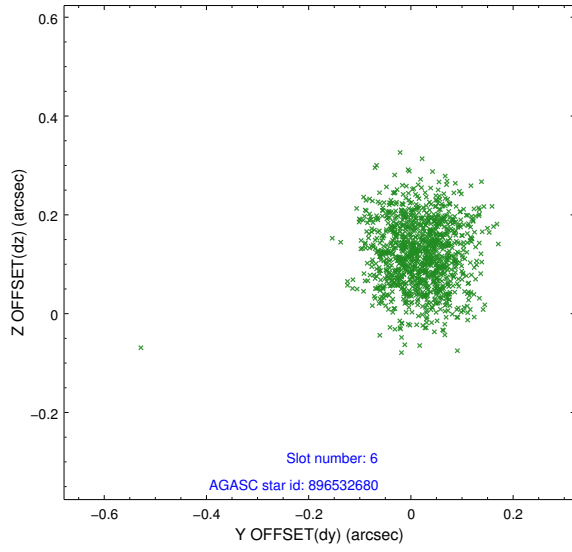
2.4.2 Slot 4



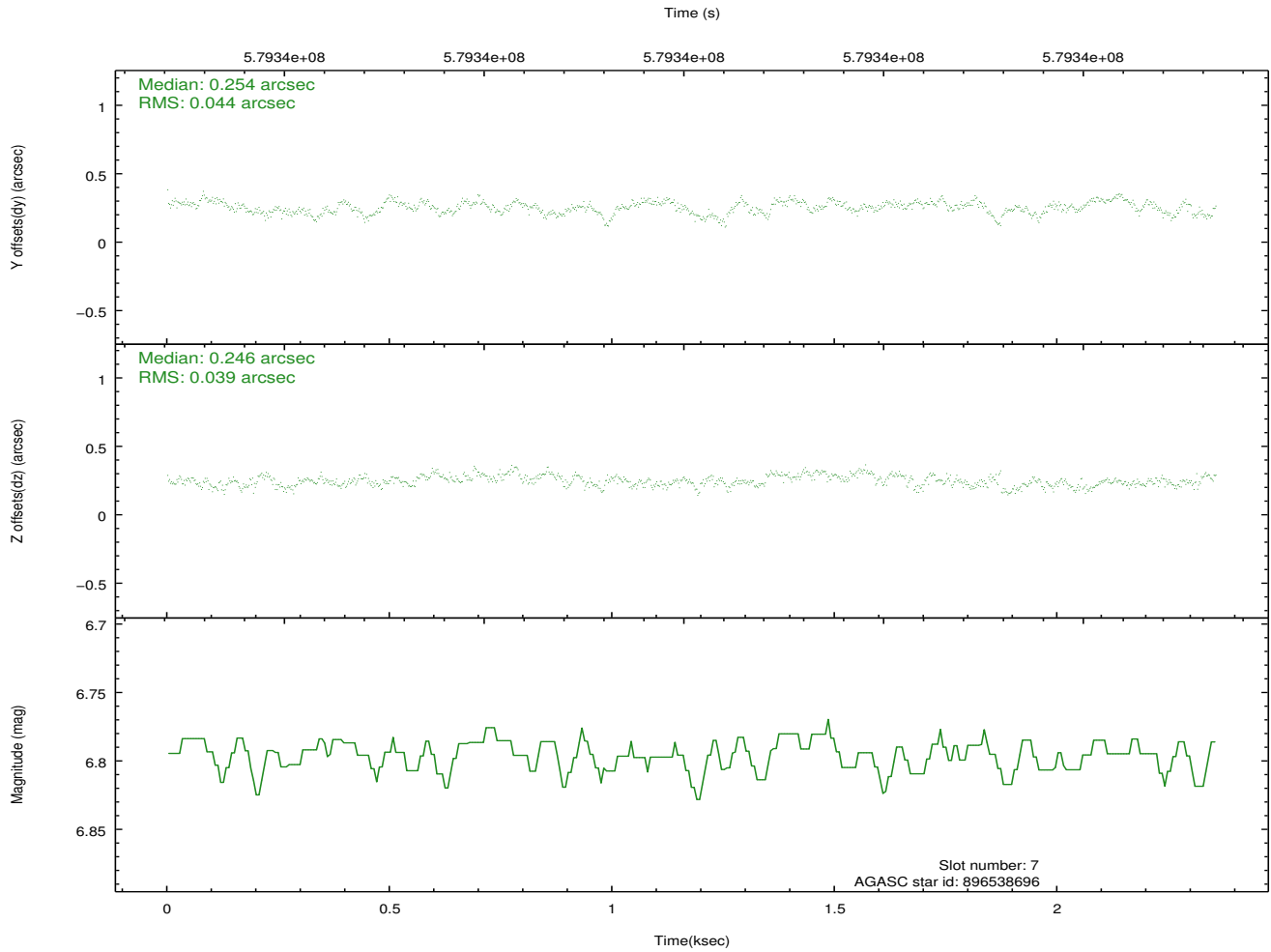
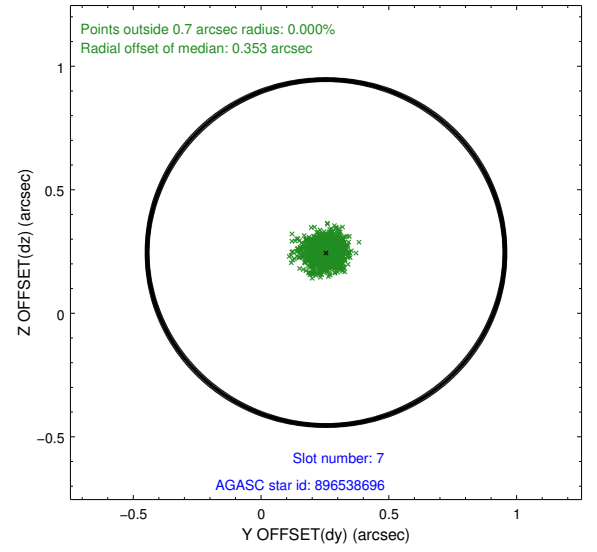
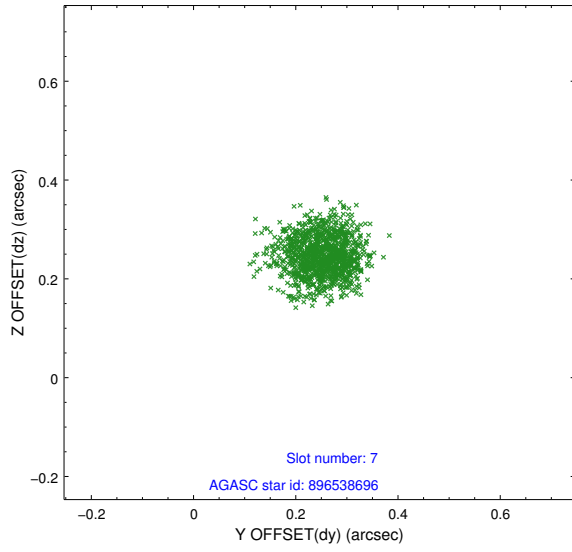
2.4.3 Slot 5



2.4.4 Slot 6

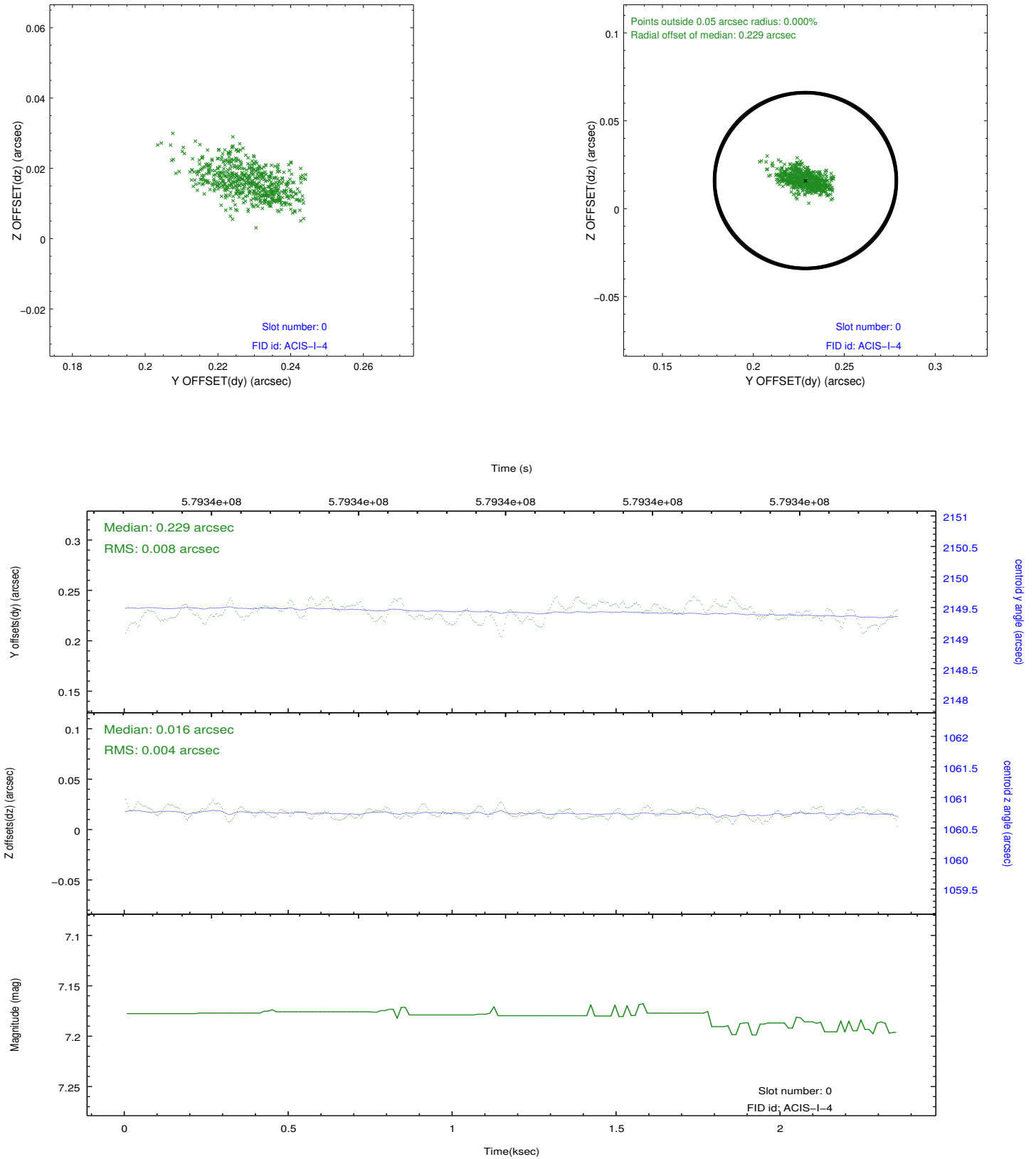


2.4.5 Slot 7

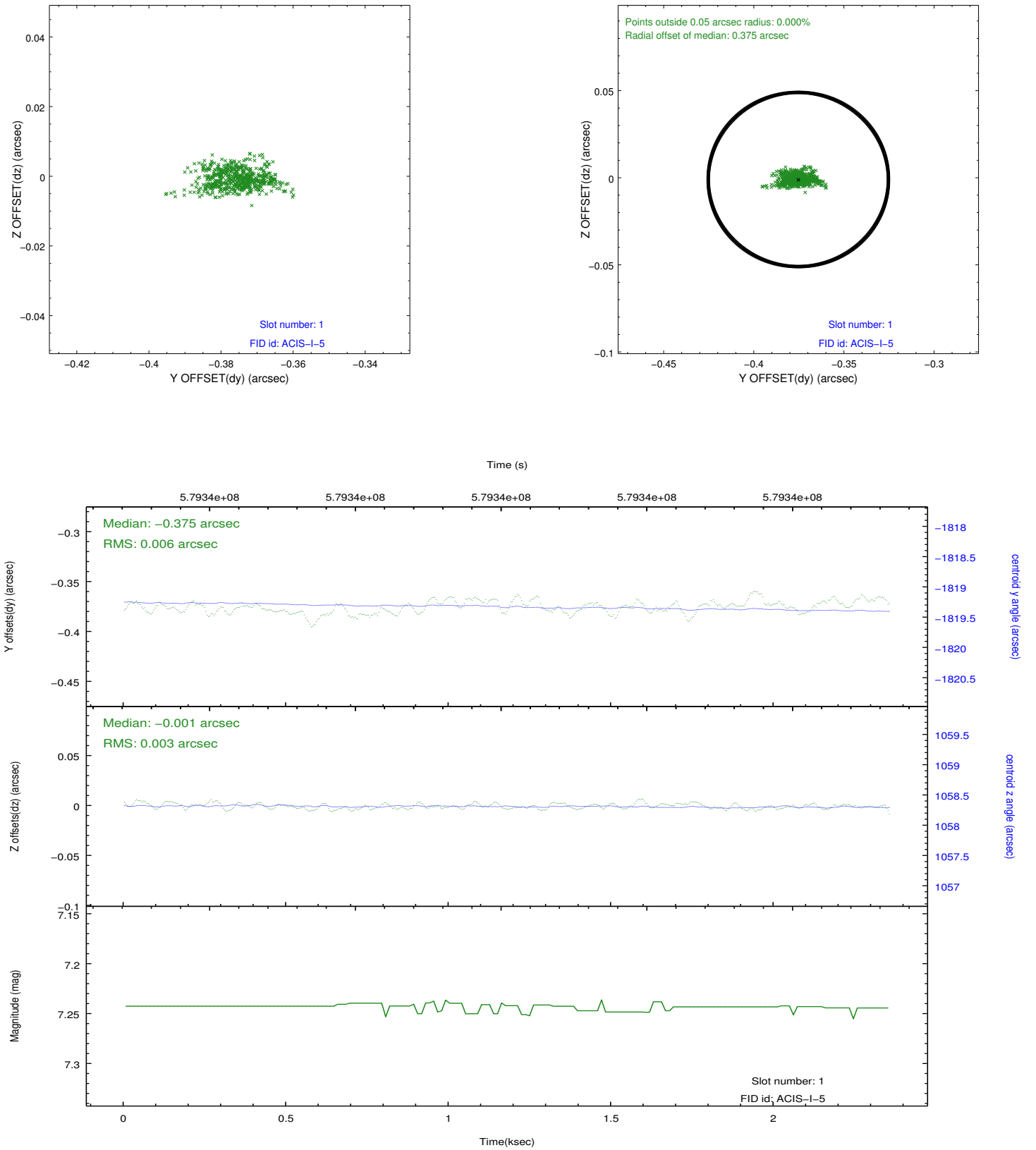


2.5 FID Slots

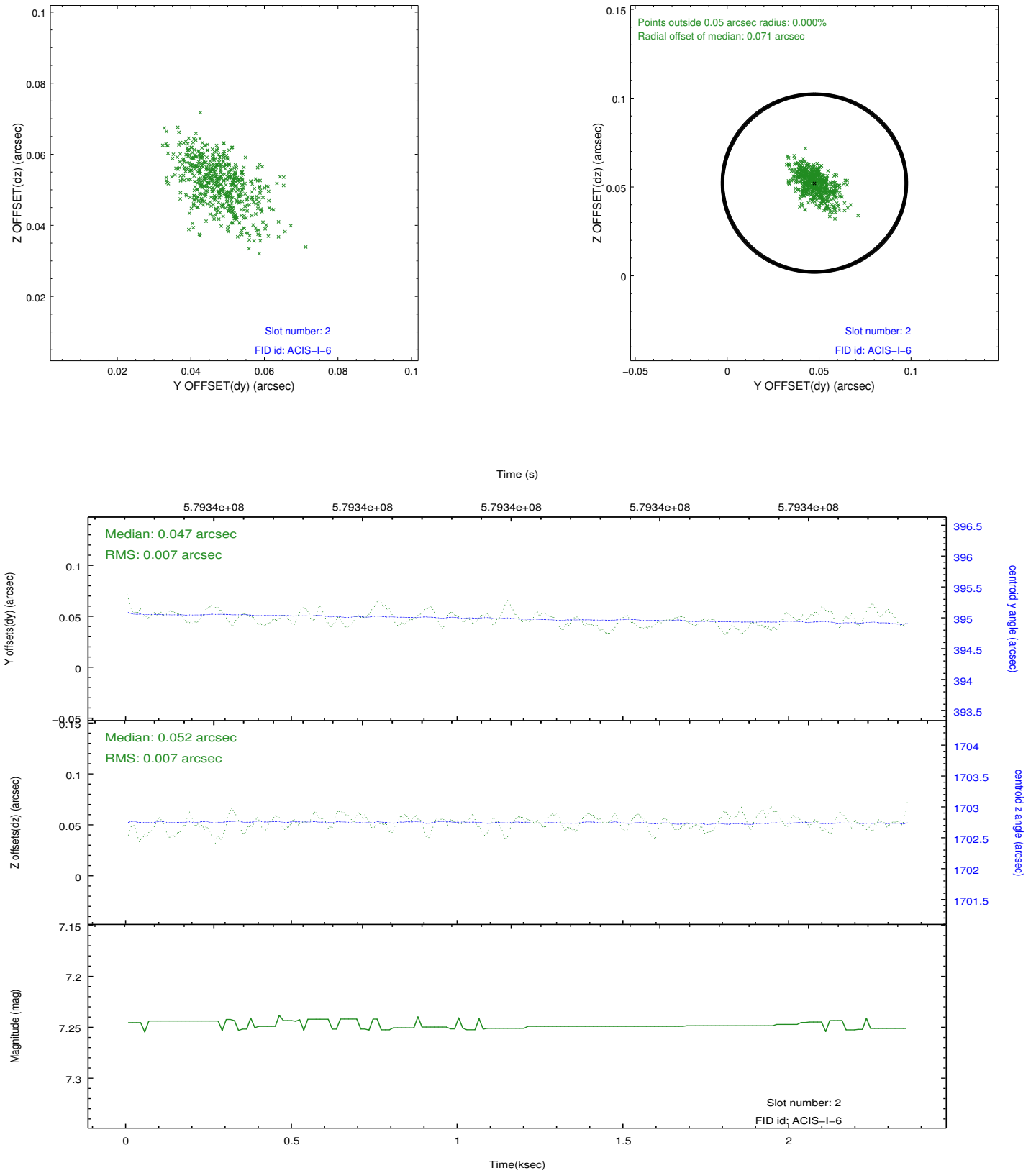
2.5.1 Slot 0



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)	2016.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.955316003561

A.2 Comments