

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18325 - L2 Version 1
Chandra X-Ray Center

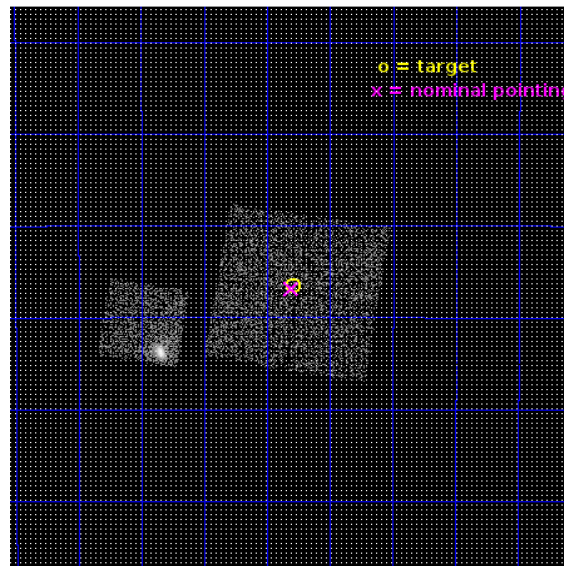
L2 Processing Date : Jul 15 2016

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1 Front

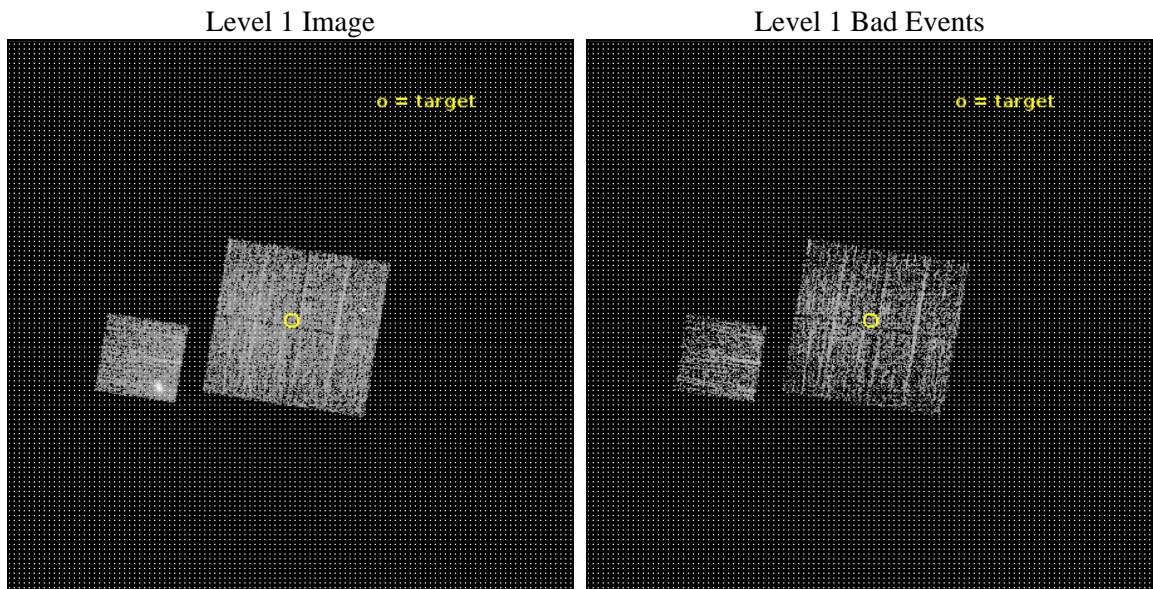
seq_num	300356	Sequence number
obs_id	18325	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.32266	Observer's specified target RA [deg]
dec_targ	-28.60863	Observer's specified target Dec [deg]
ra_nom	266.32682191129	Nominal RA [deg]
dec_nom	-28.614547456712	Nominal Dec [deg]
roll_nom	279.20008944405	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.9674463272	Sum of GTIs [s]
livetime	1930.4112916787	Livetime [s]
ontime0	1952.7032960653	Sum of GTIs [s]
ontime1	1955.8853663206	Sum of GTIs [s]
ontime2	1955.9264063835	Sum of GTIs [s]
ontime3	1955.9674463272	Sum of GTIs [s]
ontime6	1955.803286314	Sum of GTIs [s]
l2events	10433	Number of level 2 events



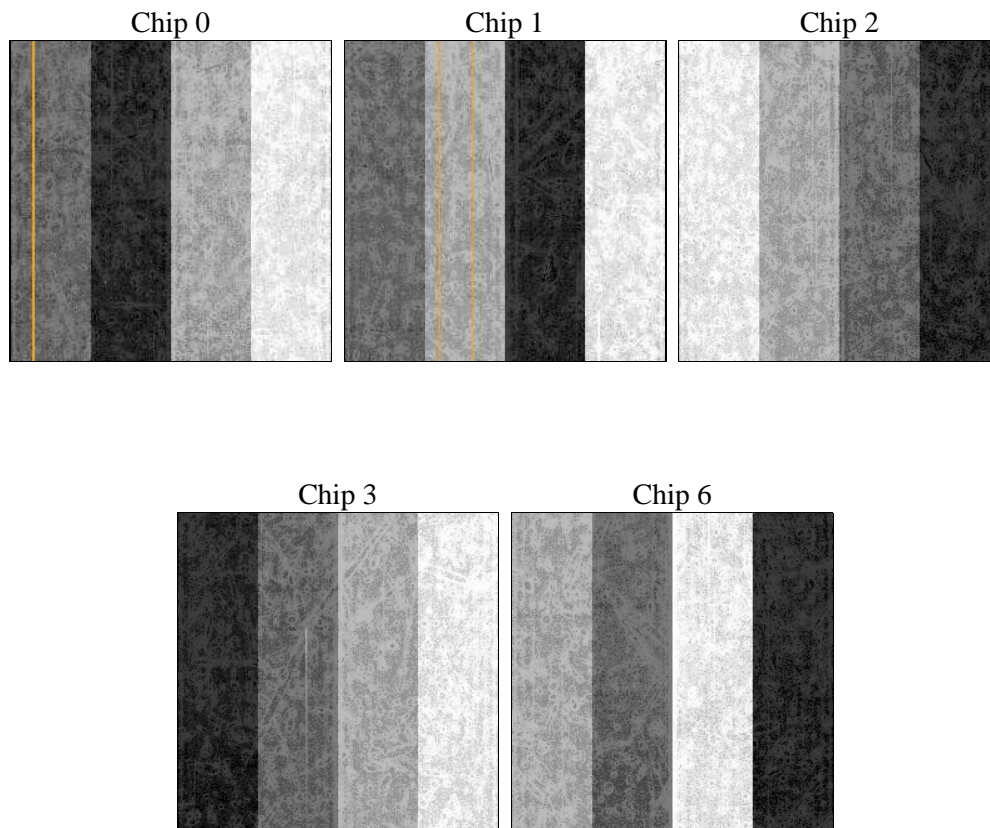
2 OBI

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	10.5	Processing system revision	ontime	1955.9674463272	Sum of GTIs [s]
caldbver	4.7.2	 	ontime0	1952.7032960653	Sum of GTIs [s]
date	2016-07-15T14:35:23	Date and time of file creation	ontime1	1955.8853663206	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.9264063835	Sum of GTIs [s]
			ontime3	1955.9674463272	Sum of GTIs [s]
			ontime6	1955.803286314	Sum of GTIs [s]
			l1events	60752	Number of level 1 events

2.1.4 Events

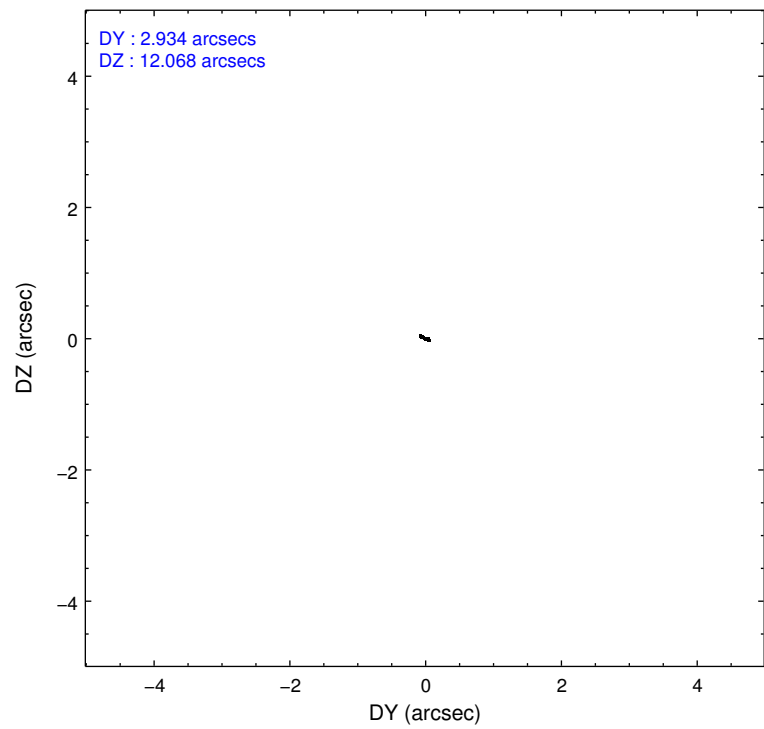
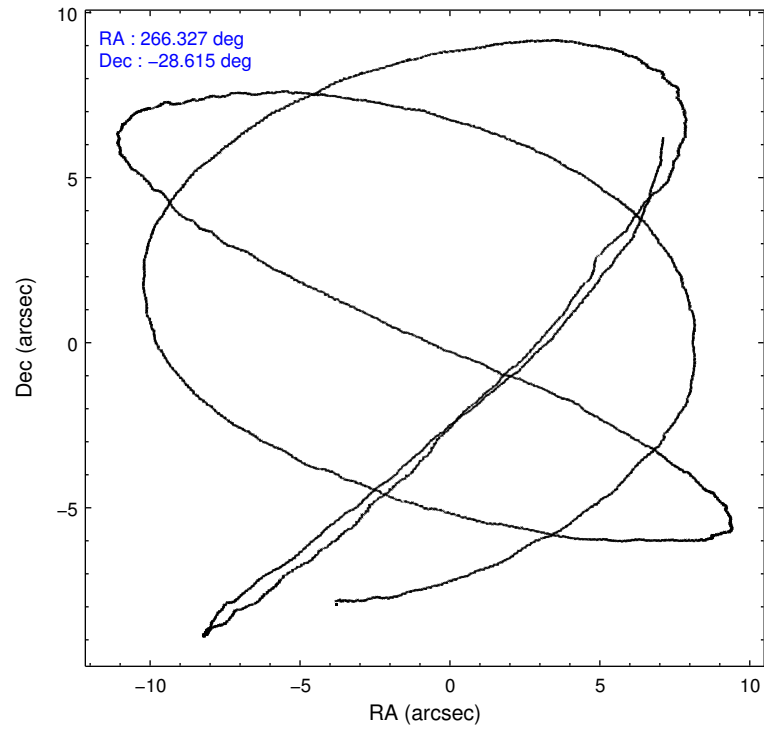
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	10352	11930	11963	11606	14901
rejected events	8681	9774	10038	10032	10161
rejected %	83%	81%	83%	86%	68%

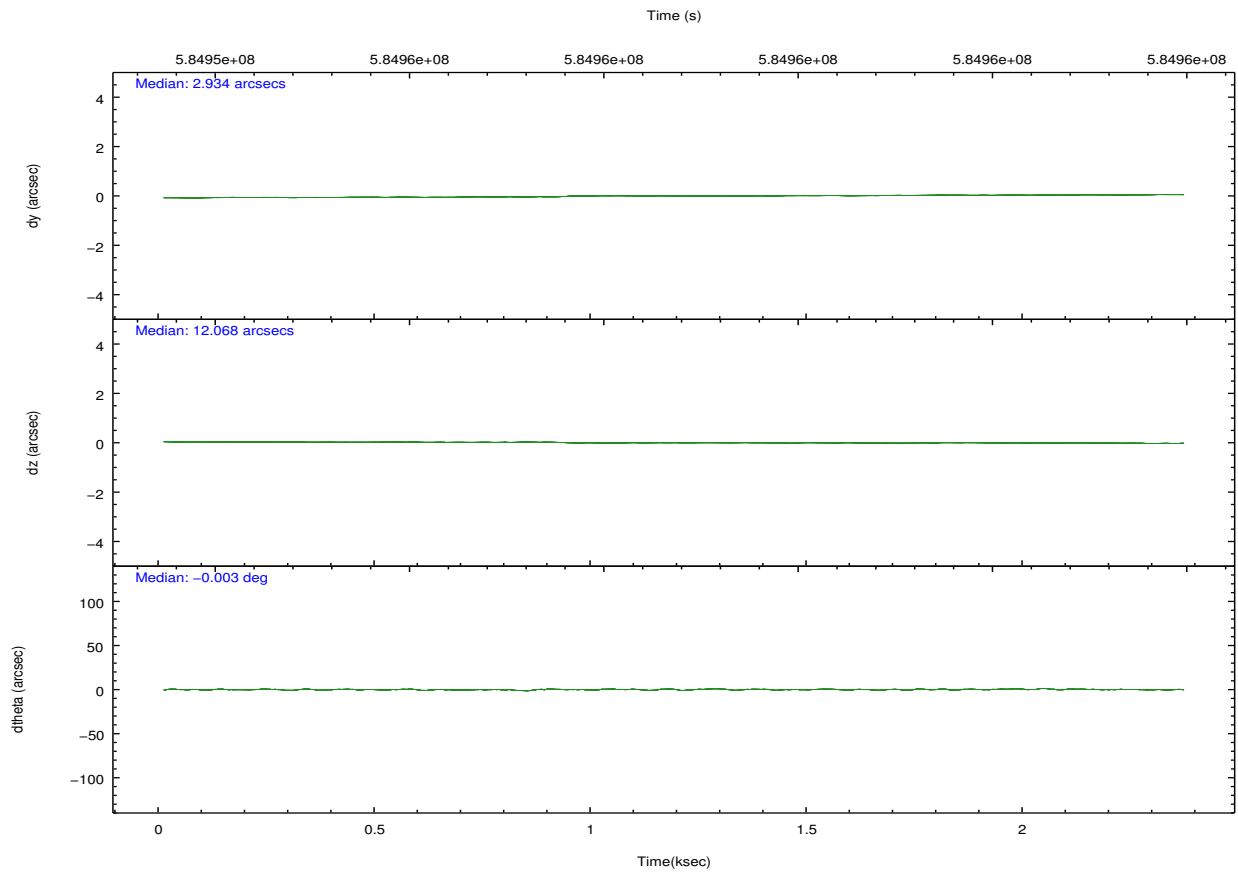
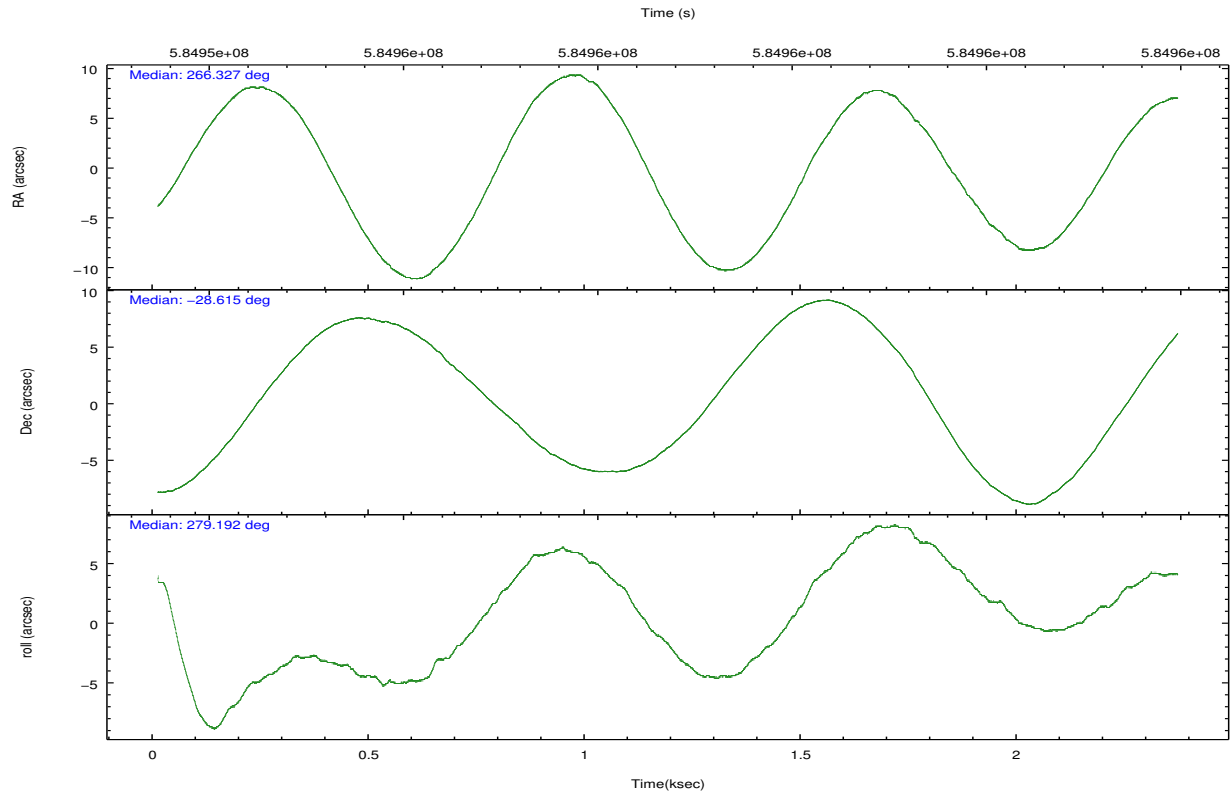
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	718	1124	877	681	2592
	6%	9%	7%	5%	17%
grade 1 events	12	10	10	9	12
	0%	0%	0%	0%	0%
grade 2 events	361	384	428	327	809
	3%	3%	3%	2%	5%
grade 3 events	159	151	144	145	350
	1%	1%	1%	1%	2%
grade 4 events	144	151	158	146	296
	1%	1%	1%	1%	1%
grade 5 events	544	573	485	589	596
	5%	4%	4%	5%	3%
grade 6 events	291	346	318	280	702
	2%	2%	2%	2%	4%
grade 7 events	8123	9191	9543	9429	9544
	78%	77%	79%	81%	64%

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	266.306682	266.326821911287	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.593099	-28.61454745671207	CCD I3 on	Y	Y
[deg] Pointing Roll	278.981731	279.2000894440543	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)	584954690.184000	584954314.39362	CCD S5 on	N	N
Observation start date	2016-07-15T07:23:42	2016-07-15T07:18:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	584956870.184000	584957003.99377	On-chip summing requested	N	N
Observation end date	2016-07-15T08:00:02	2016-07-15T08:03:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





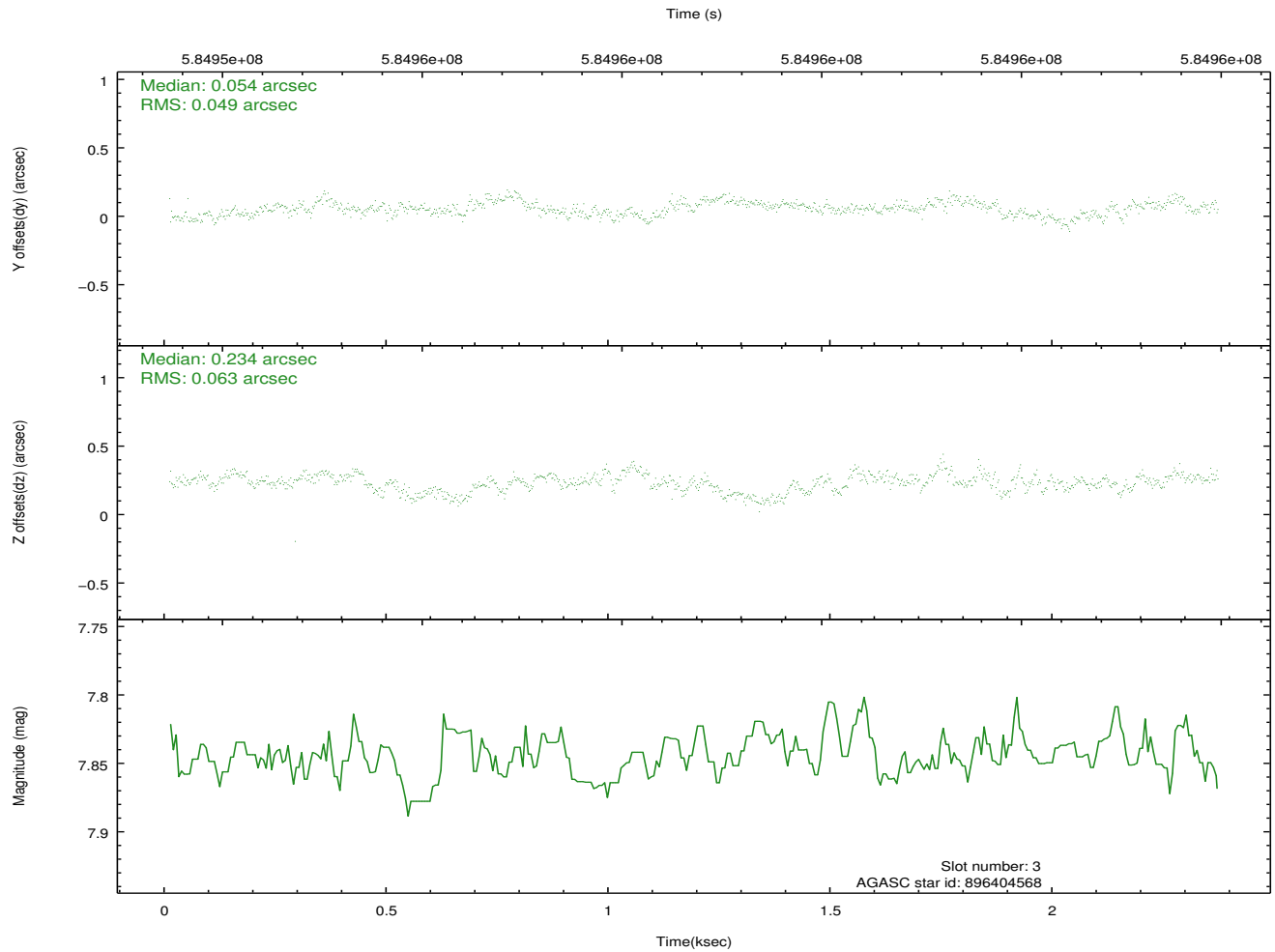
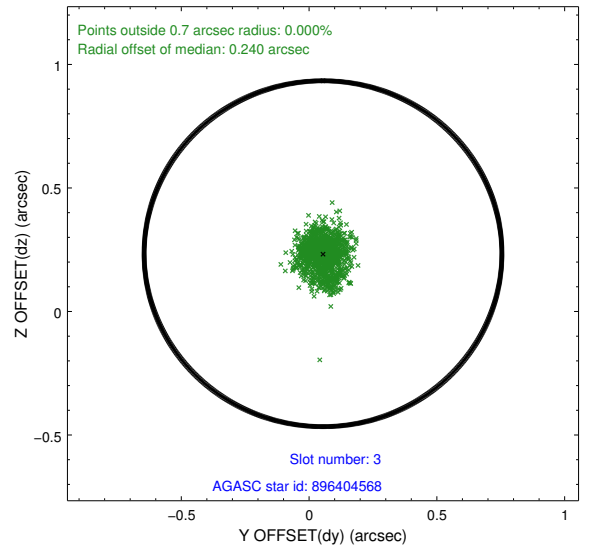
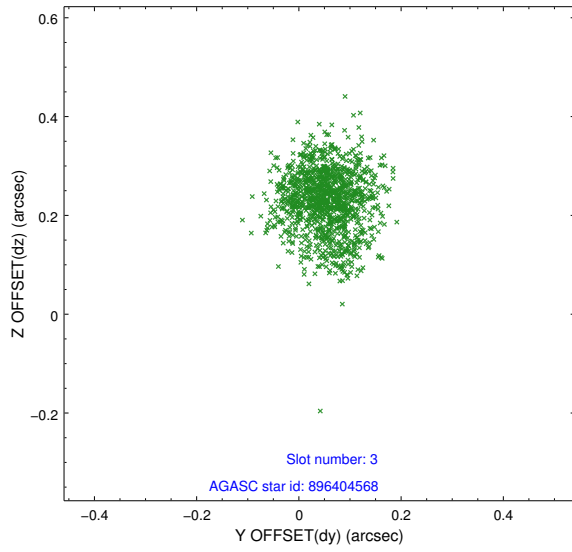
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	576	0.149	-0.116	0.006	0.012	0.000000	0.000000	937.03	-835.71
1	FID		ACIS-I-5	7.21	577	-0.286	0.122	0.006	0.010	0.000000	0.000000	-1810.00	1060.61
2	FID		ACIS-I-6	7.24	575	0.045	0.064	0.006	0.011	0.000000	0.000000	399.46	1708.20
3	GUIDE	used	896404568	7.84	1153	0.054	0.234	0.086	0.137	265.687293	-28.431080	-877.26	-1846.92
4	GUIDE	used	896538920	8.91	1151	0.107	-0.103	0.095	0.154	266.278728	-29.143592	1942.88	-398.15
5	GUIDE	used	896540808	7.52	1153	0.020	0.040	0.066	0.111	265.985401	-29.308604	2389.76	-1399.09
6	GUIDE	used	896538696	6.77	1153	-0.156	-0.059	0.054	0.086	266.298470	-28.325572	-953.74	122.78
7	GUIDE	used	896538840	8.91	1148	-0.024	-0.103	0.111	0.173	266.920426	-28.466925	-140.39	1988.26

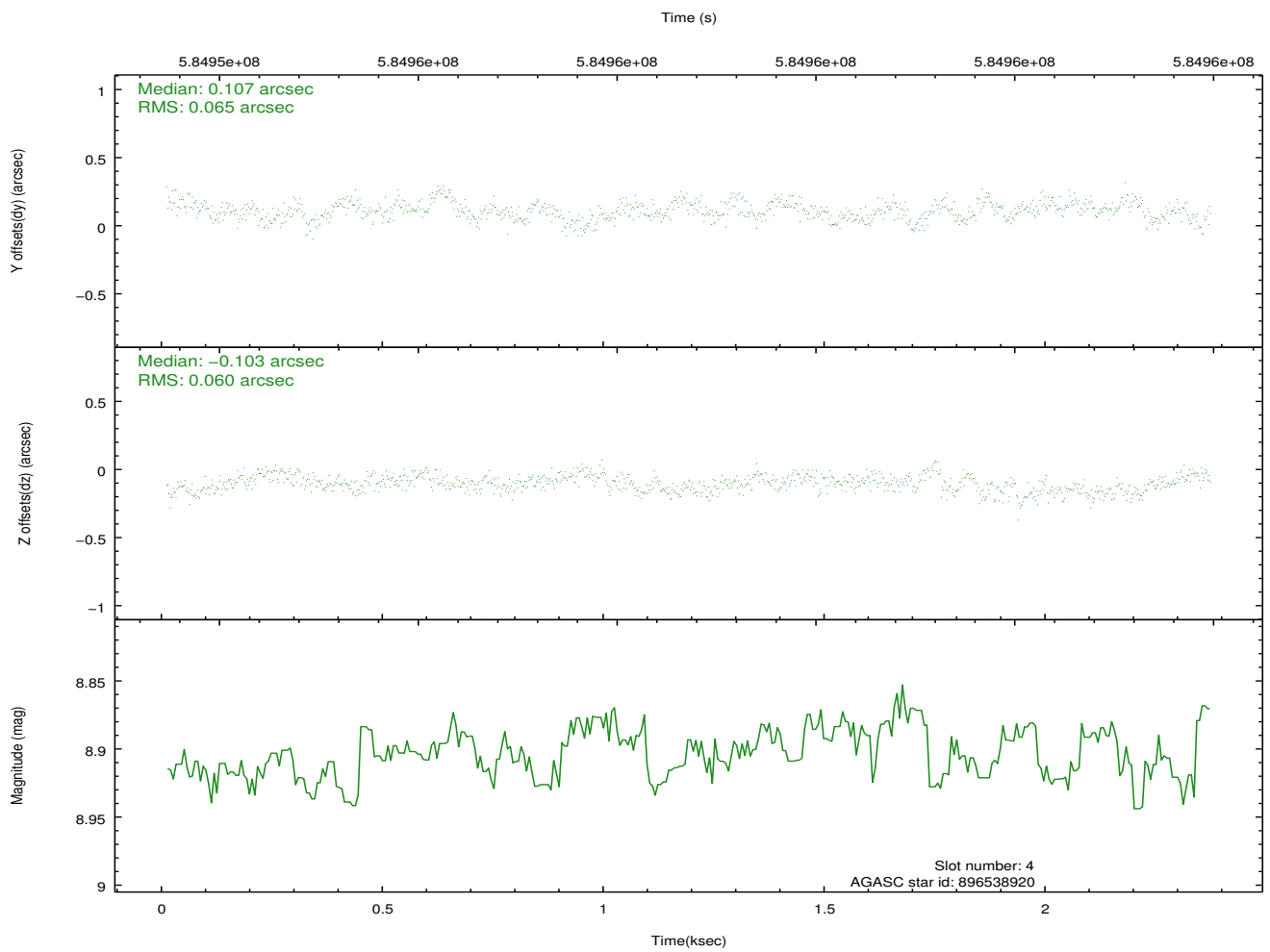
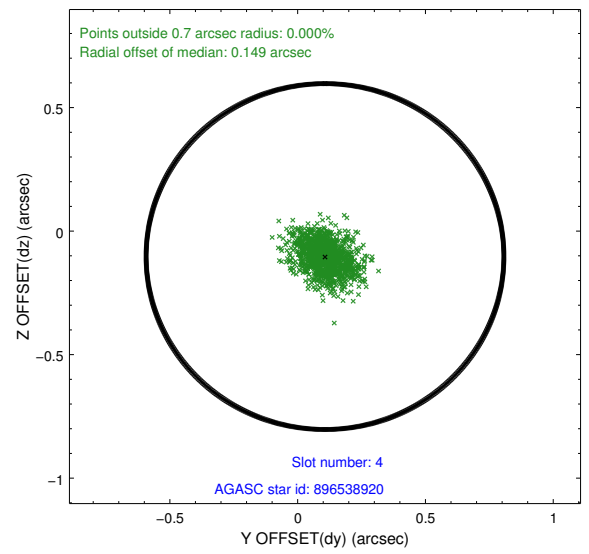
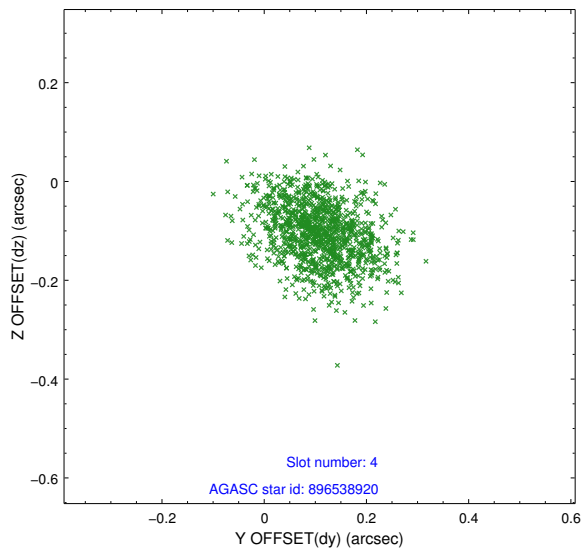
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2.4 Star Slots

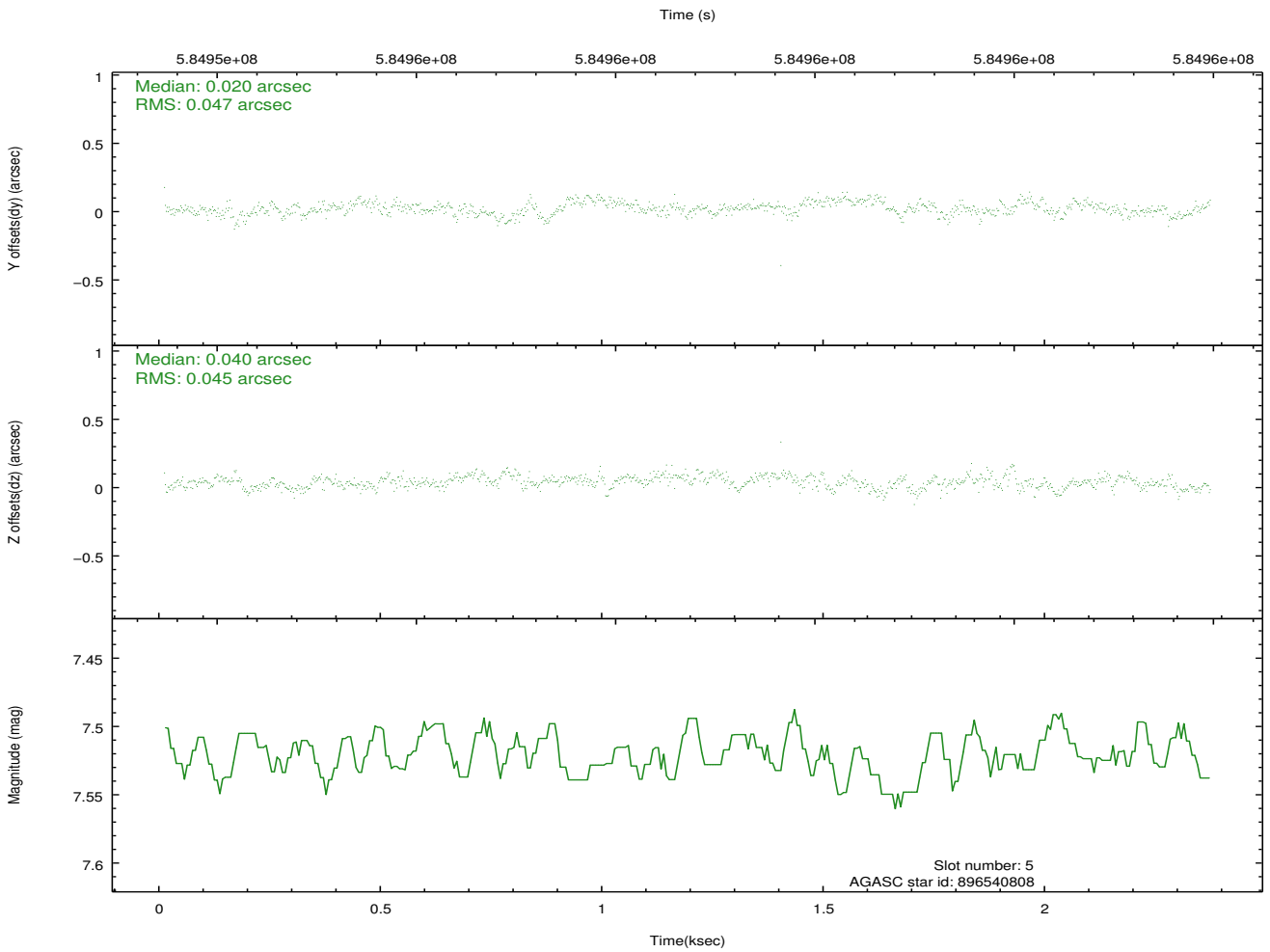
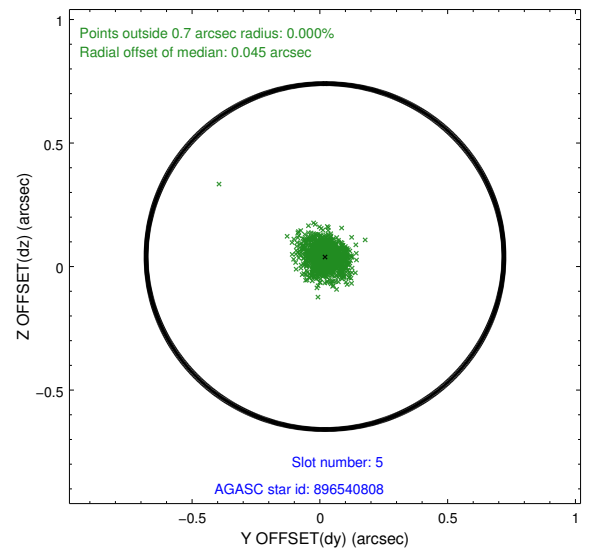
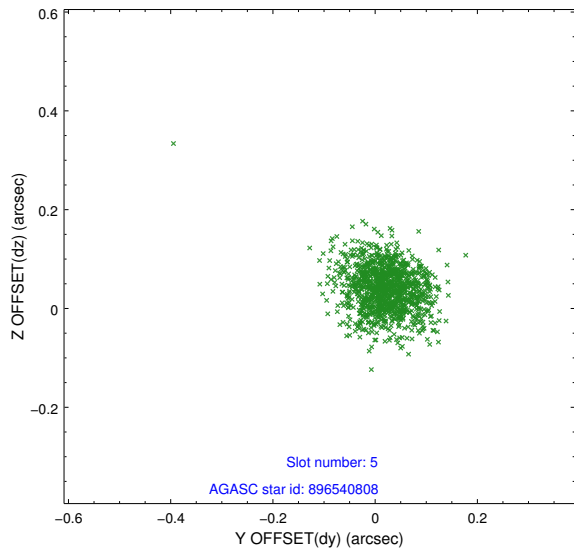
2.4.1 Slot 3



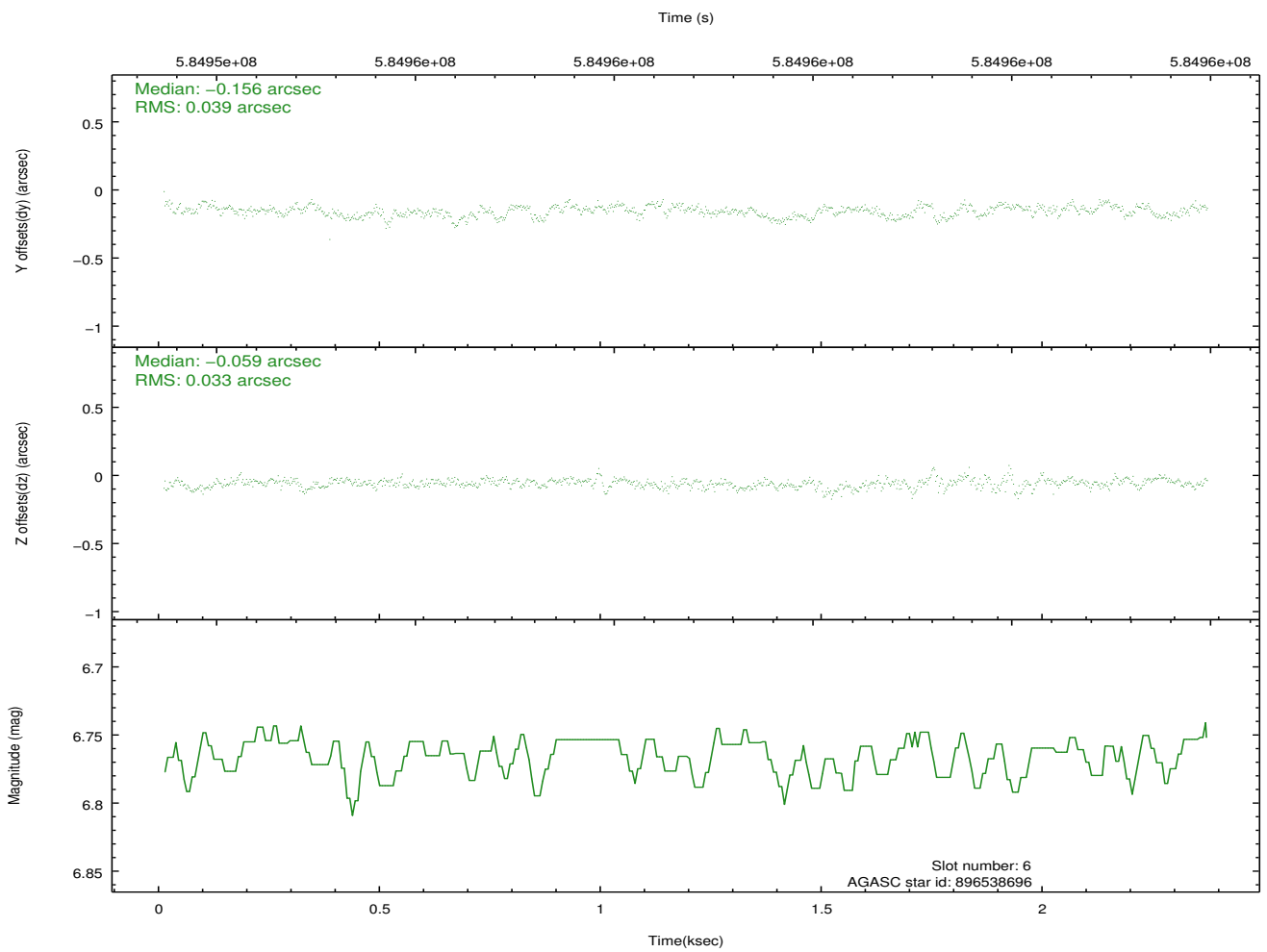
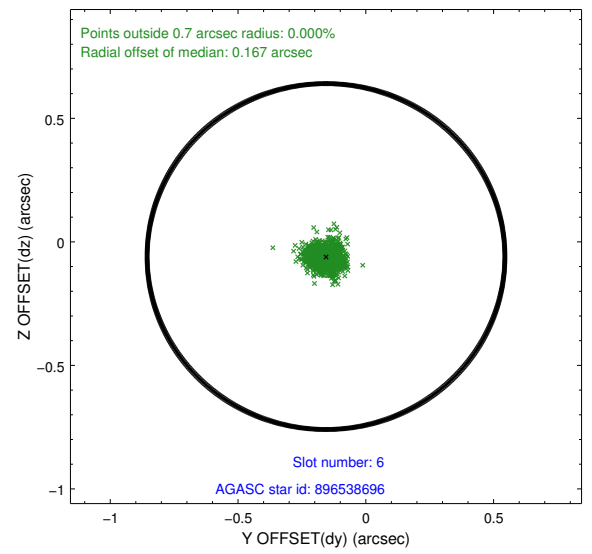
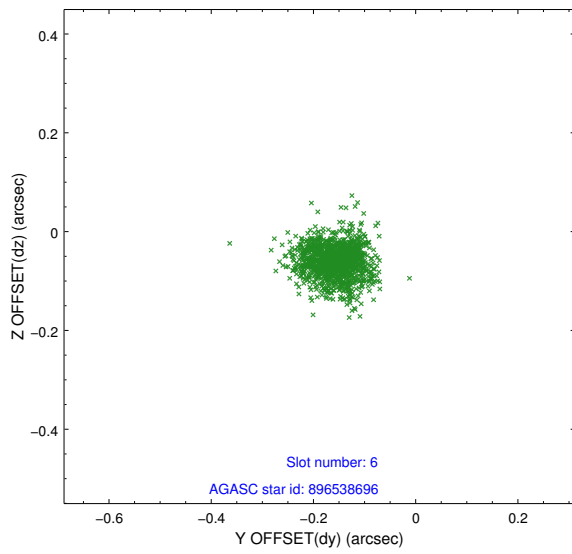
2.4.2 Slot 4



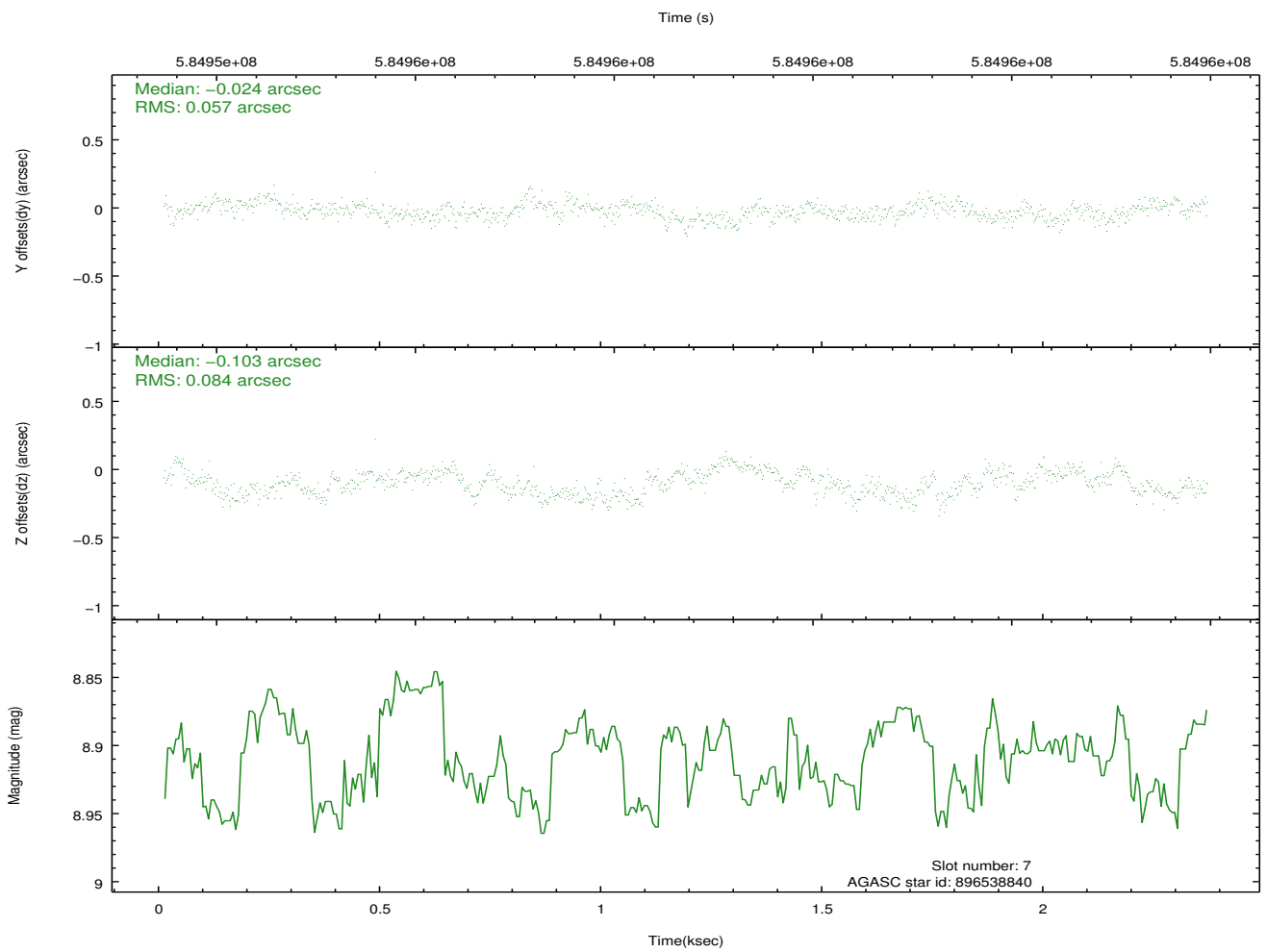
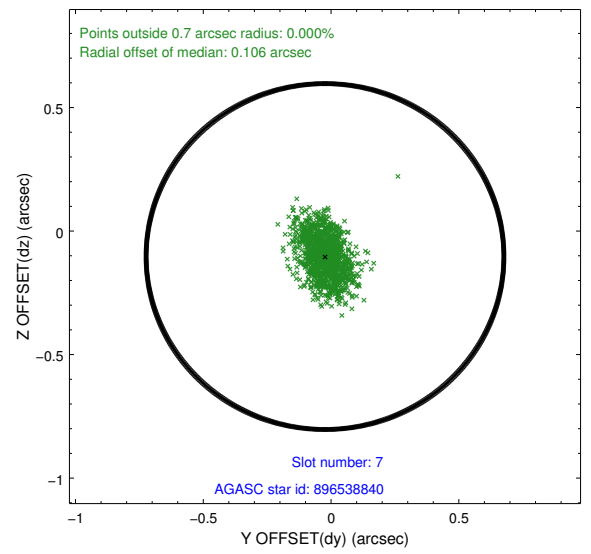
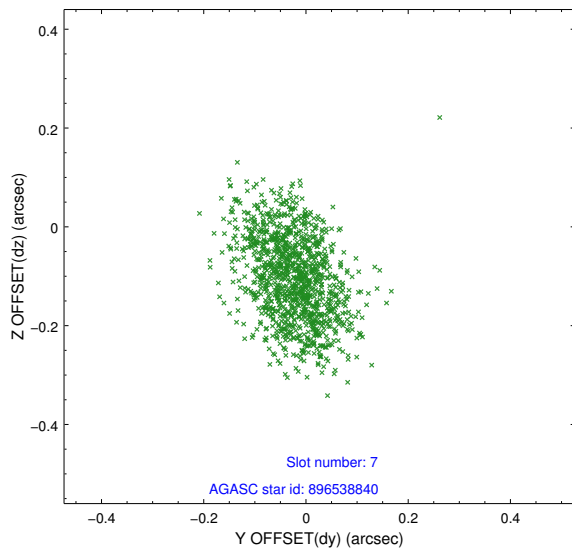
2.4.3 Slot 5



2.4.4 Slot 6

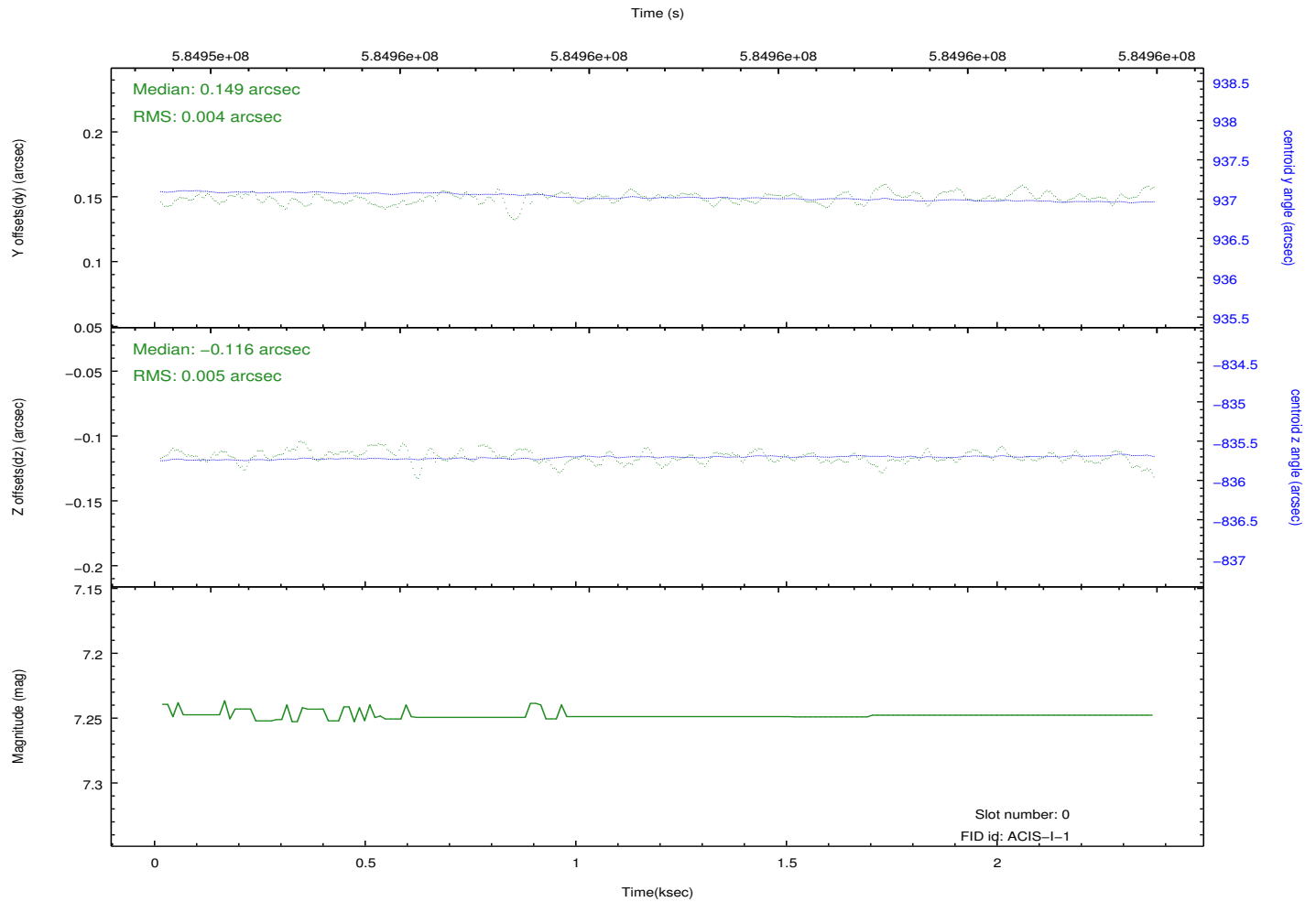
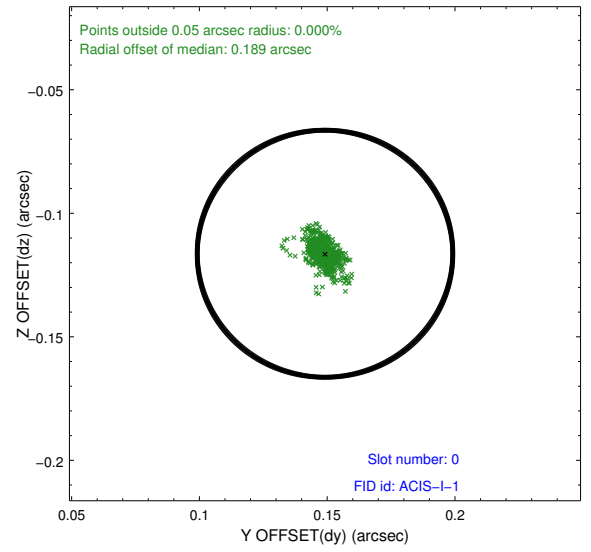
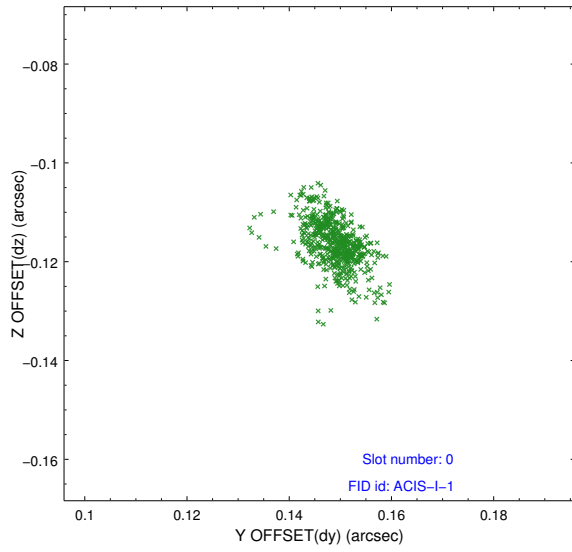


2.4.5 Slot 7

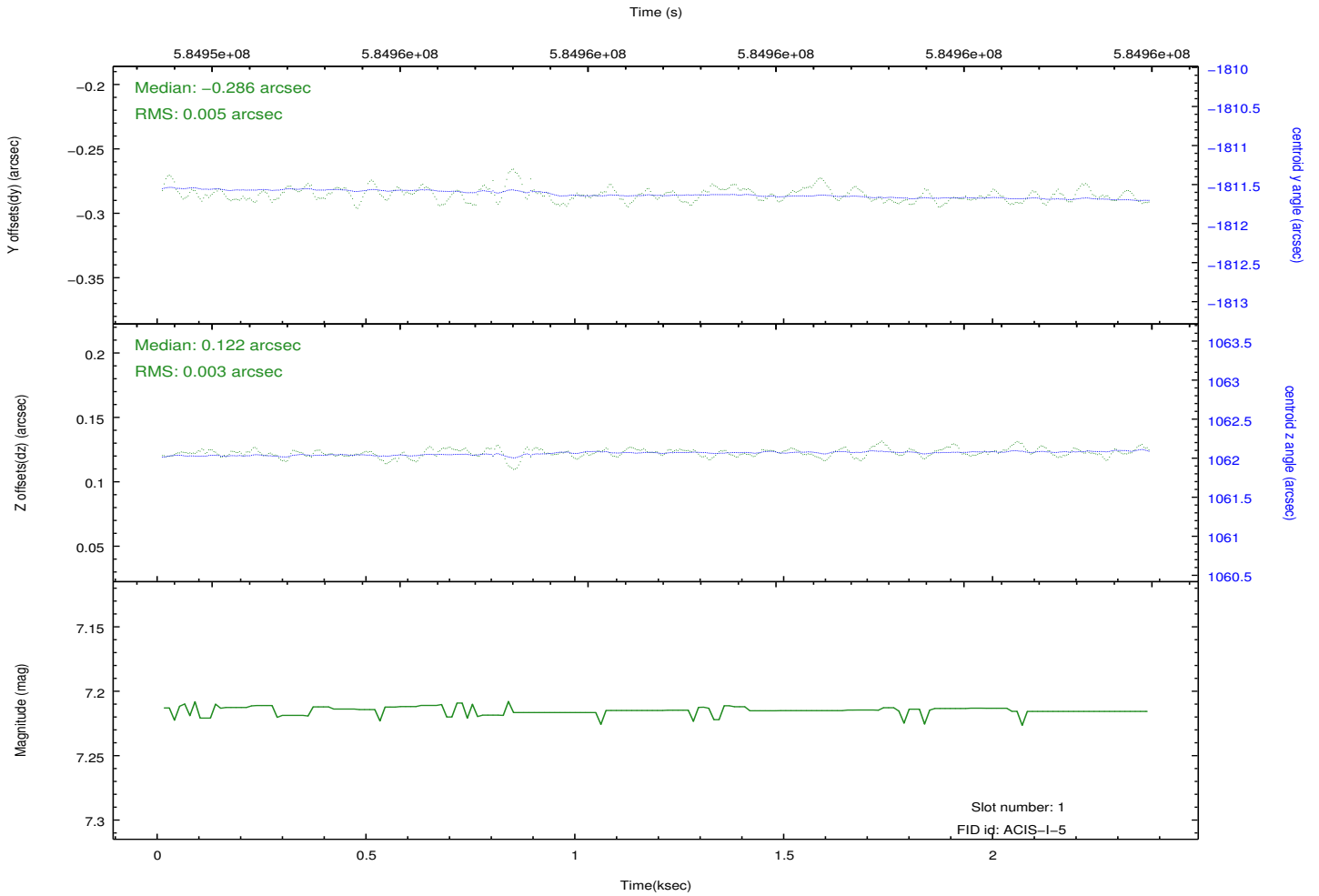
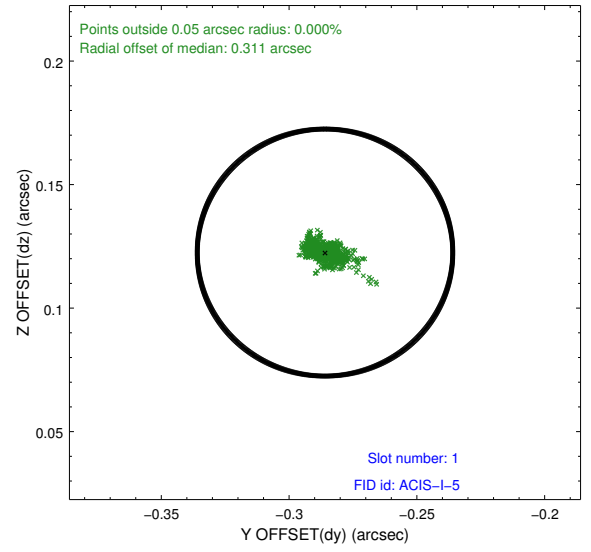
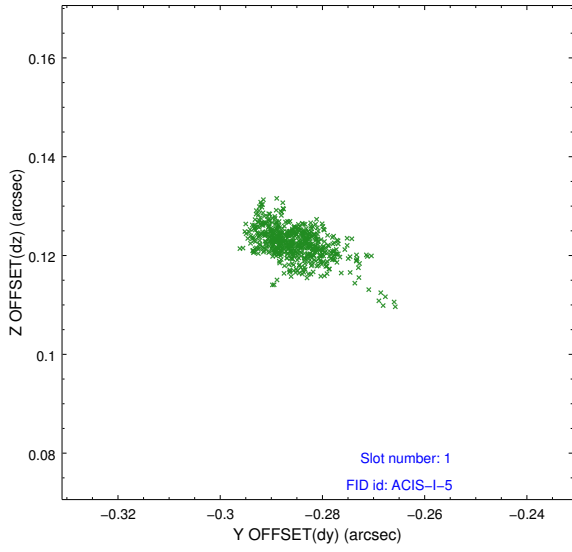


2.5 FID Slots

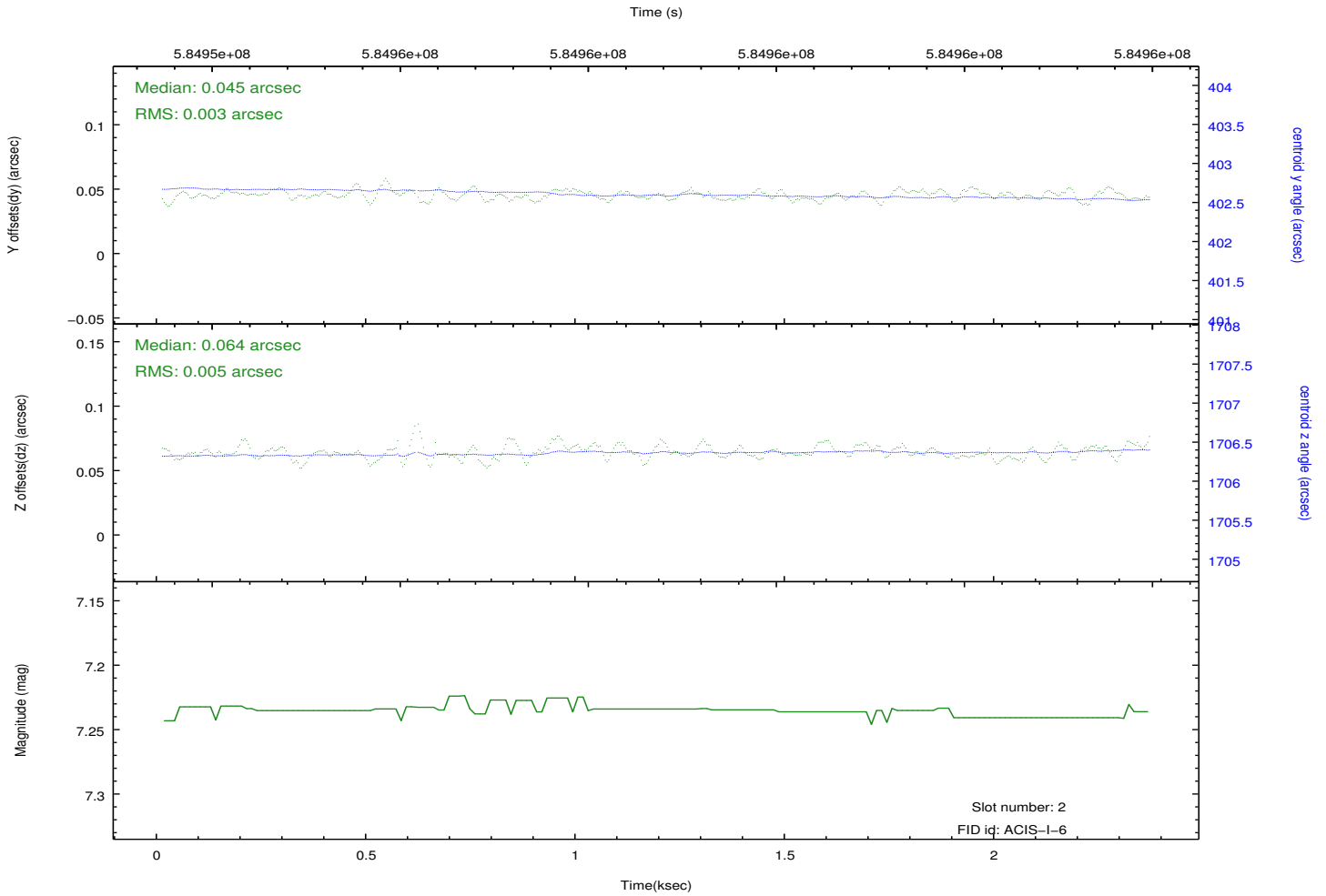
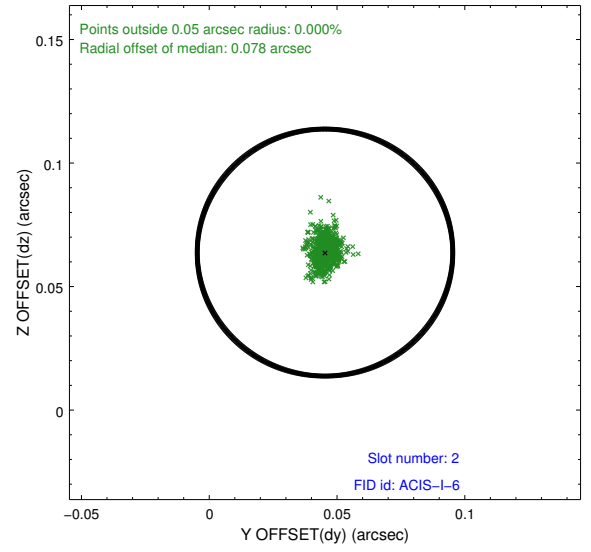
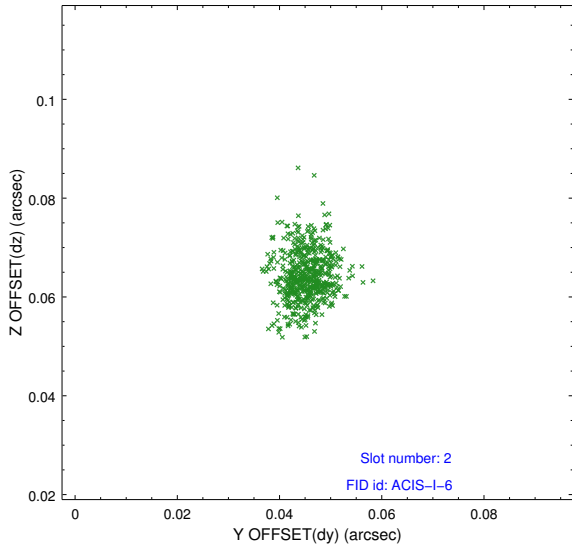
2.5.1 Slot 0



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)	2016.07.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9559674463272

A.2 Comments