

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18326 - L2 Version 1
Chandra X-Ray Center

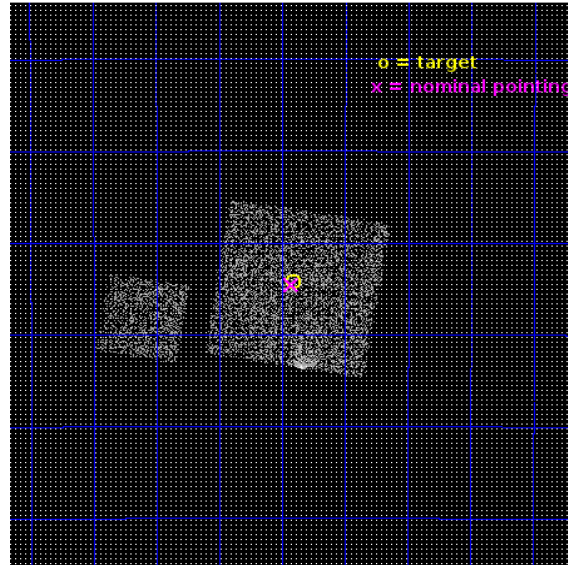
L2 Processing Date : Jul 15 2016

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1 Front

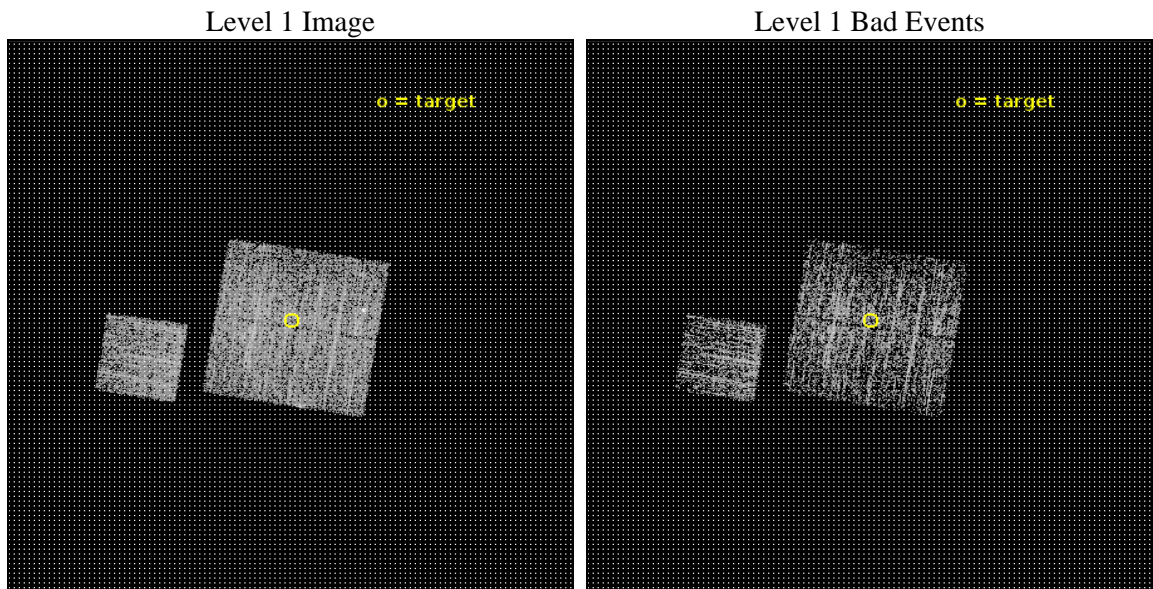
seq_num	300357	Sequence number
obs_id	18326	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.60282	Observer's specified target RA [deg]
dec_targ	-28.57019	Observer's specified target Dec [deg]
ra_nom	266.60675858767	Nominal RA [deg]
dec_nom	-28.576151809256	Nominal Dec [deg]
roll_nom	279.32551116681	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.8566319942	Sum of GTIs [s]
livetime	1930.3019252165	Livetime [s]
ontime0	1955.733512044	Sum of GTIs [s]
ontime1	1955.7745519876	Sum of GTIs [s]
ontime2	1955.8155920506	Sum of GTIs [s]
ontime3	1955.8566319942	Sum of GTIs [s]
ontime6	1955.692471981	Sum of GTIs [s]
l2events	8653	Number of level 2 events



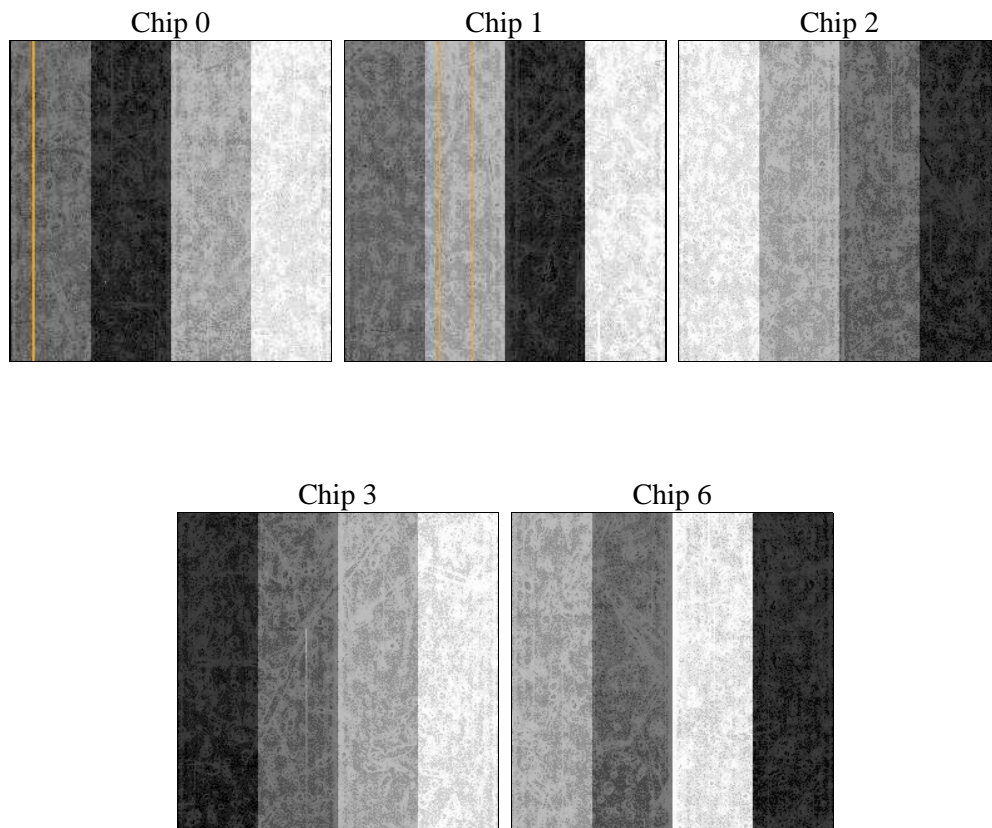
2 OBI

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	1955.8566319942	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1955.733512044	Sum of GTIs [s]
date	2016-07-15T14:35:26	Date and time of file creation	ontime1	1955.7745519876	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.8155920506	Sum of GTIs [s]
			ontime3	1955.8566319942	Sum of GTIs [s]
			ontime6	1955.692471981	Sum of GTIs [s]
			l1events	59328	Number of level 1 events

2.1.4 Events

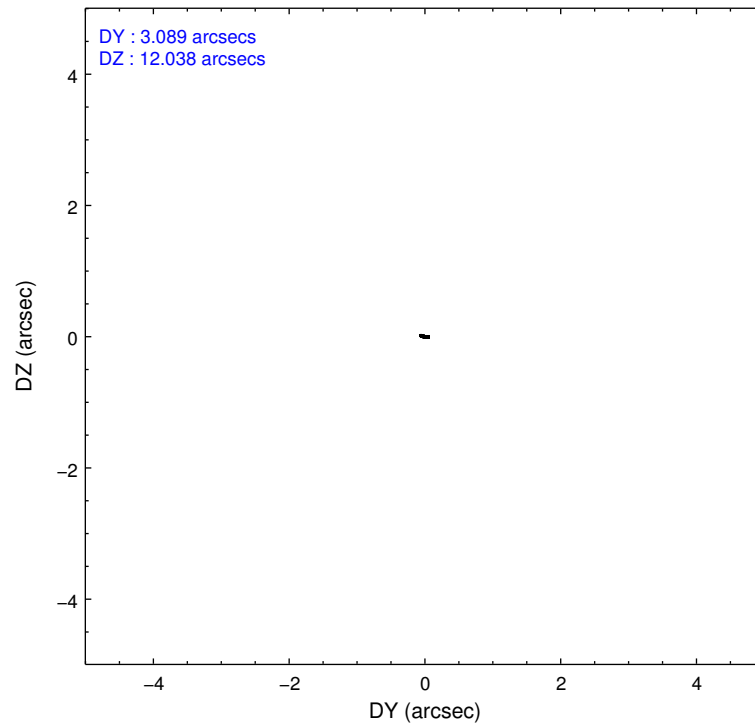
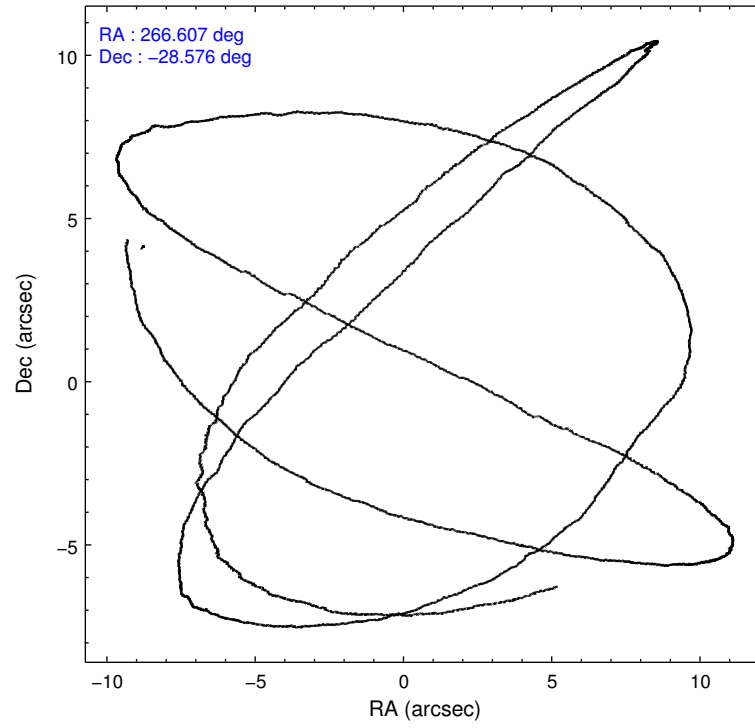
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11959	11964	12037	11315	12053
rejected events	9415	9483	9985	9585	10391
rejected %	78%	79%	82%	84%	86%

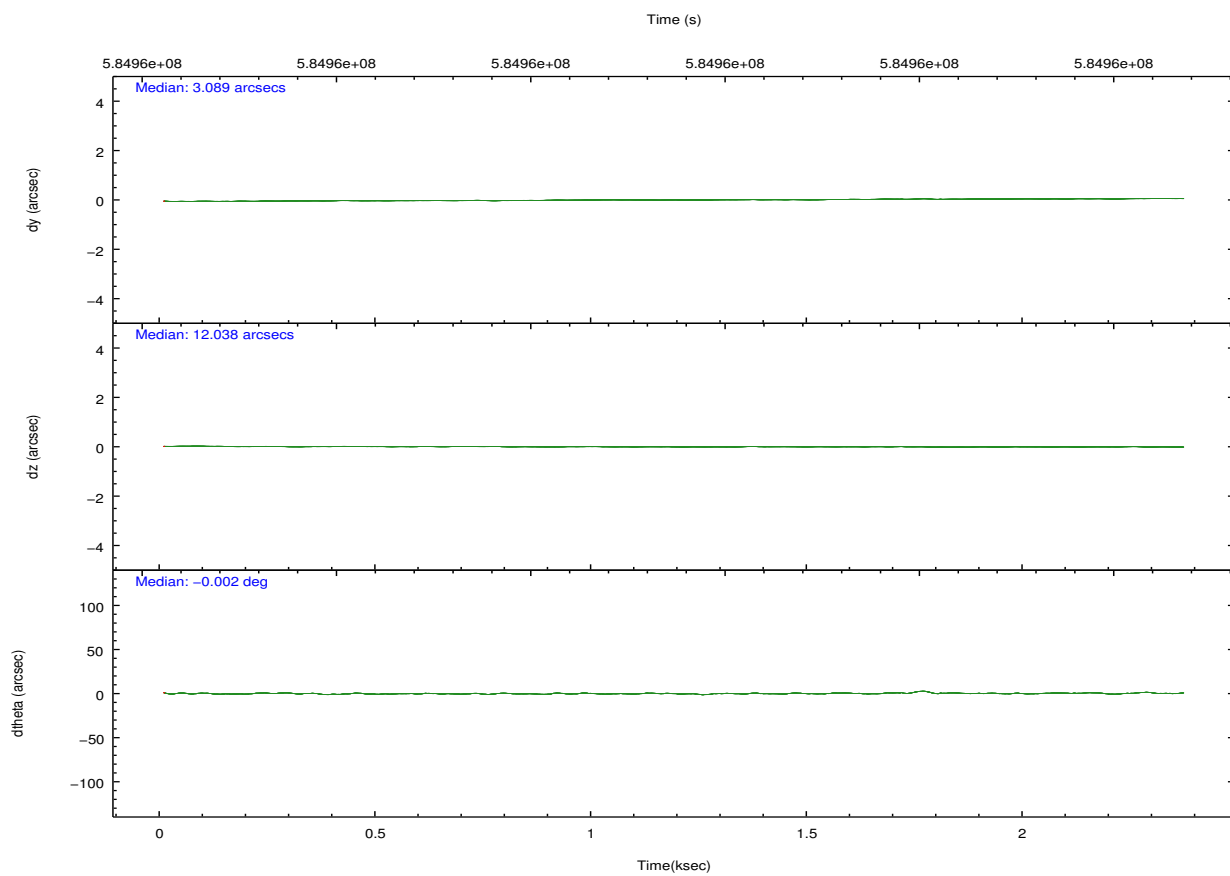
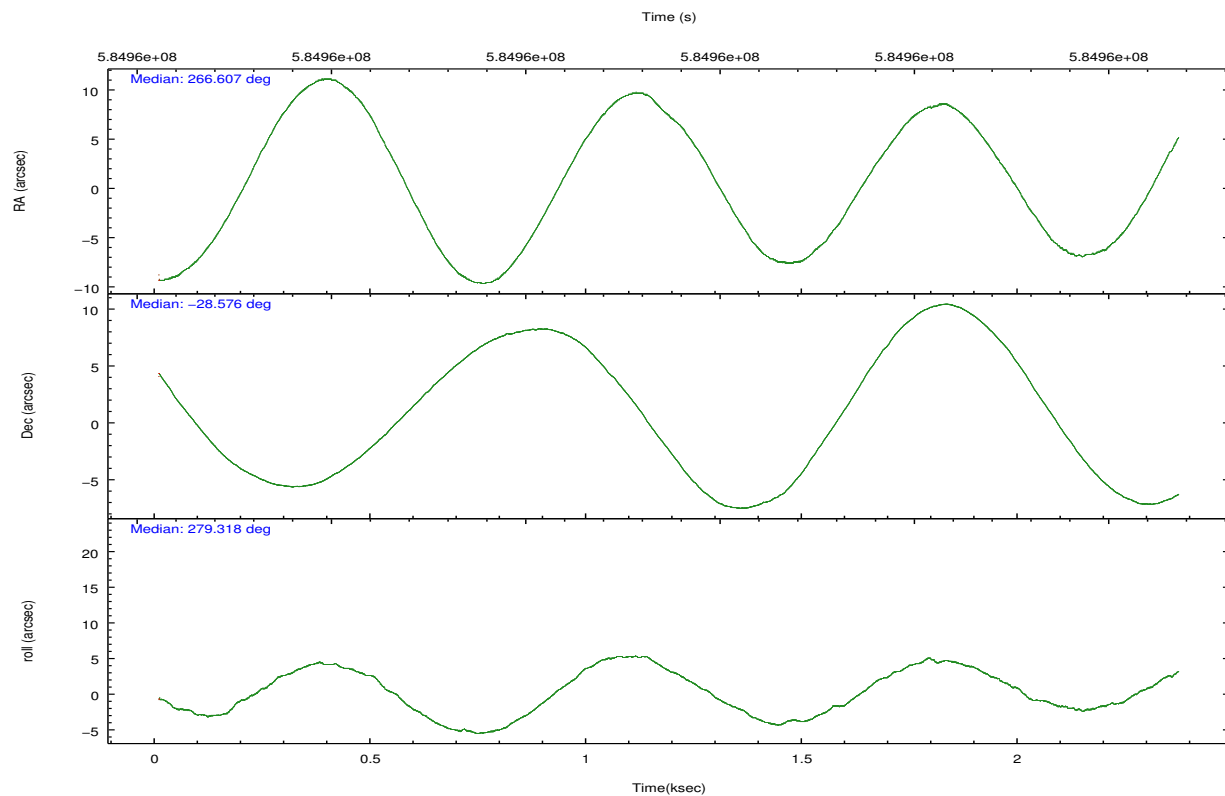
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1244	1353	956	768	637
	10%	11%	7%	6%	5%
grade 1 events	14	6	6	11	4
	0%	0%	0%	0%	0%
grade 2 events	530	424	412	347	379
	4%	3%	3%	3%	3%
grade 3 events	206	164	159	146	148
	1%	1%	1%	1%	1%
grade 4 events	191	167	186	171	153
	1%	1%	1%	1%	1%
grade 5 events	539	499	492	589	617
	4%	4%	4%	5%	5%
grade 6 events	383	378	343	300	350
	3%	3%	2%	2%	2%
grade 7 events	8852	8973	9483	8983	9765
	74%	75%	78%	79%	81%

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	266.586812	266.6067585876744	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.554700	-28.57615180925628	CCD I3 on	Y	Y
[deg] Pointing Roll	279.107271	279.3255111668079	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)	584957380.184000	584957003.99377	CCD S5 on	N	N
Observation start date	2016-07-15T08:08:32	2016-07-15T08:03:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	584959560.184000	584959694.1064301	On-chip summing requested	N	N
Observation end date	2016-07-15T08:44:52	2016-07-15T08:48:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



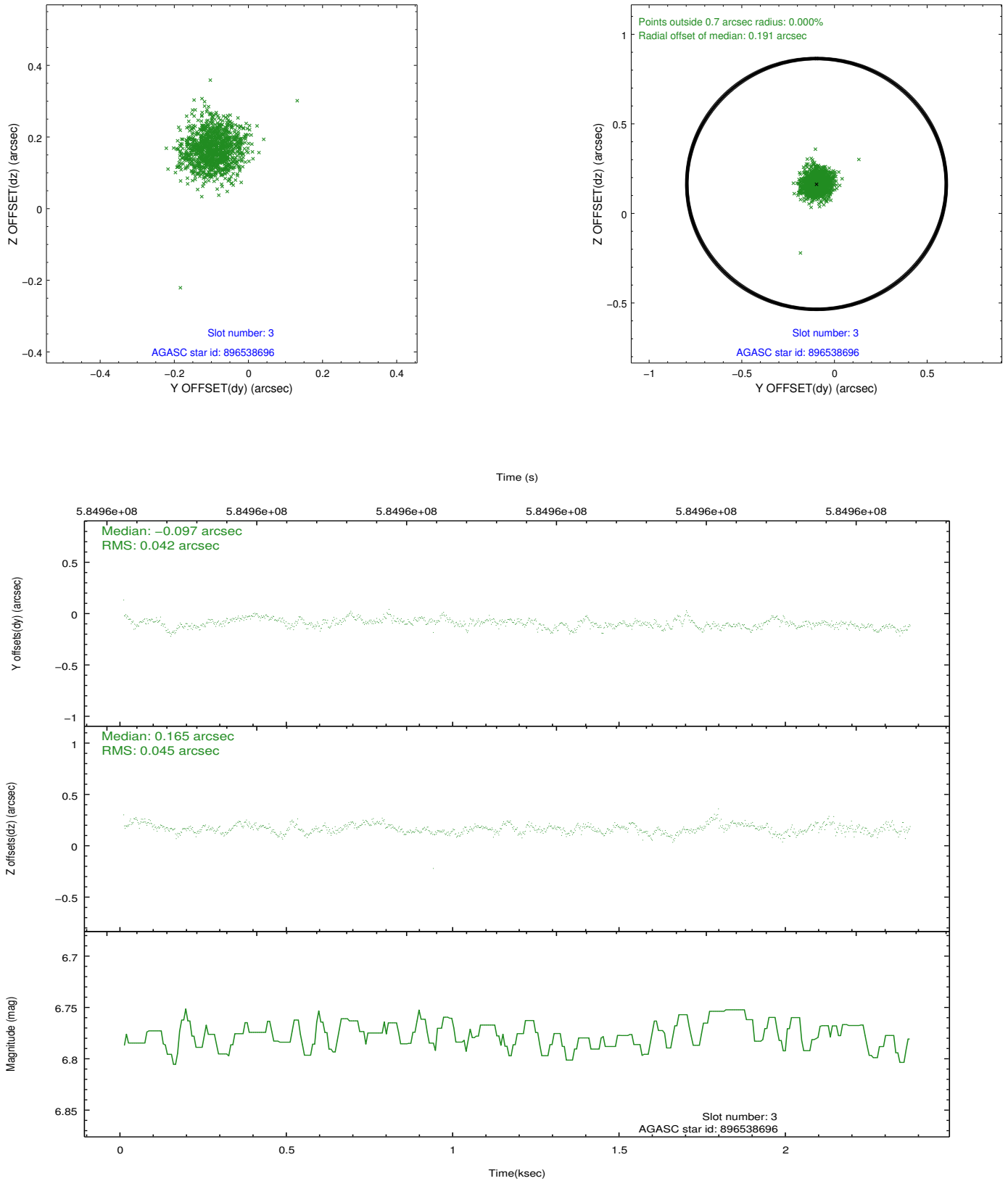


Slot Statistics

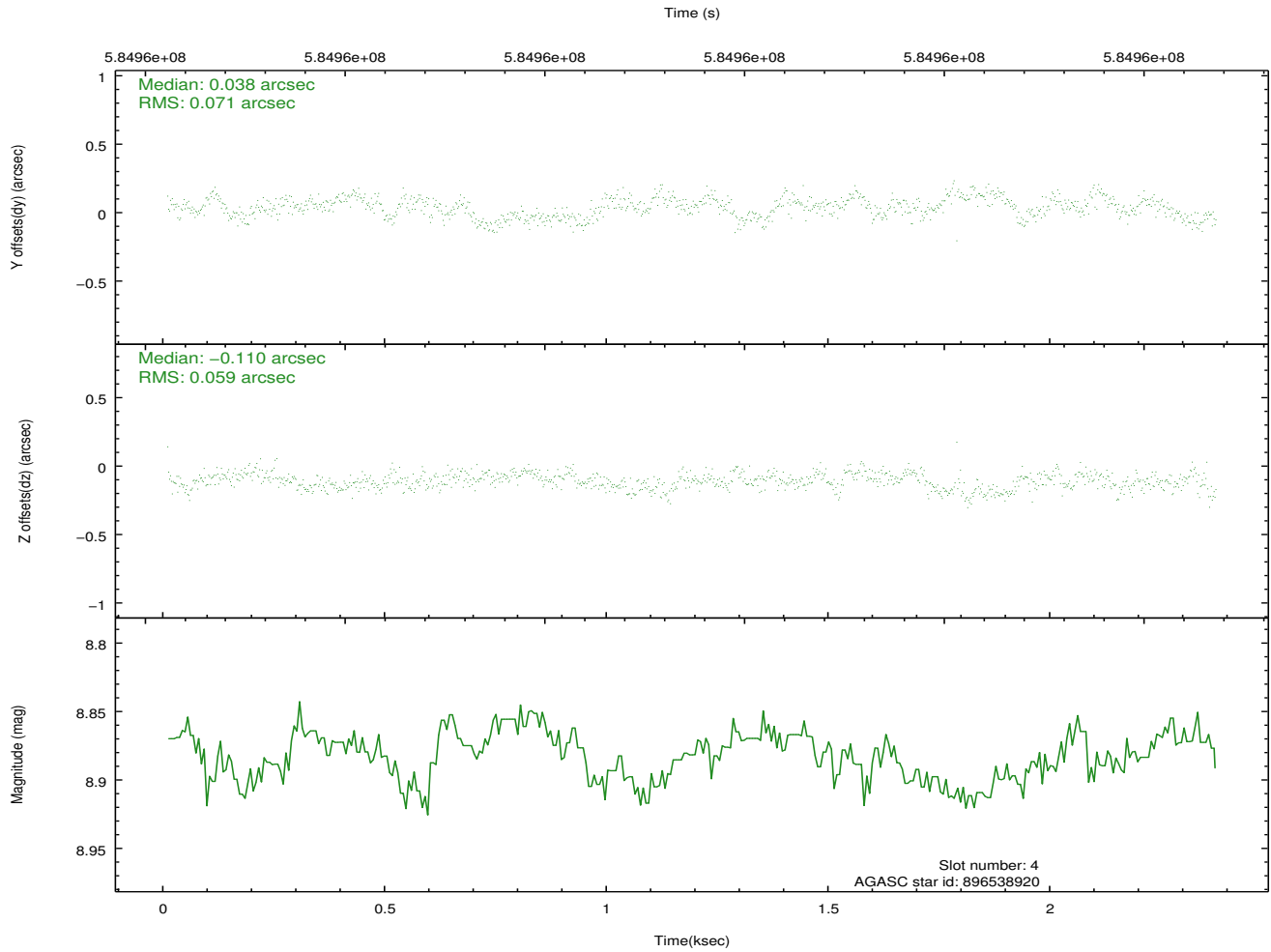
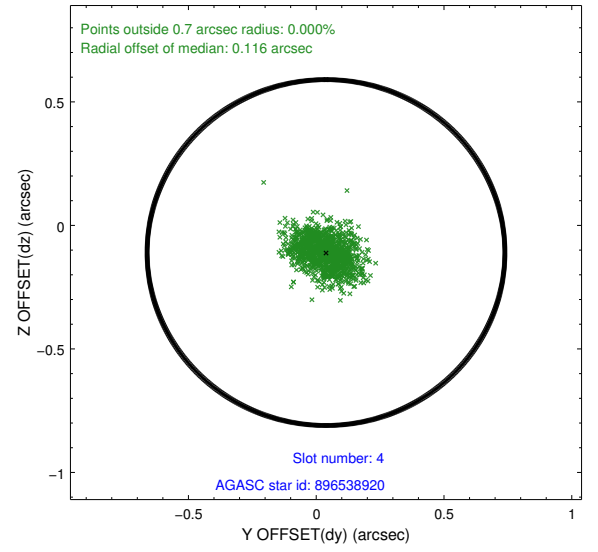
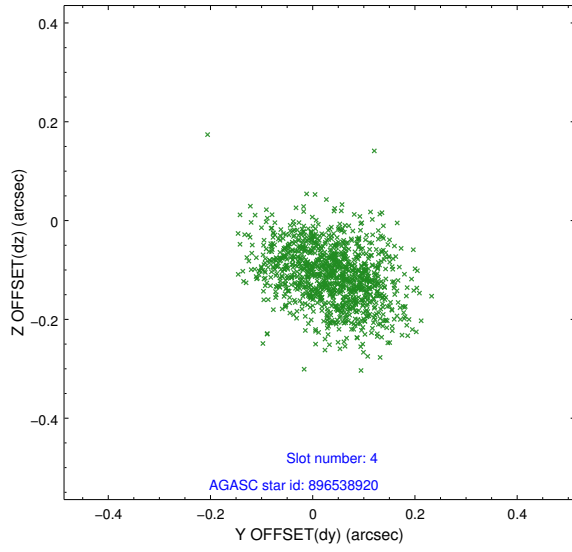
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	577	0.151	-0.122	0.006	0.011	0.000000	0.000000	936.86	-835.68
1	FID		ACIS-I-5	7.22	576	-0.288	0.123	0.006	0.011	0.000000	0.000000	-1810.17	1060.65
2	FID		ACIS-I-6	7.24	577	0.046	0.069	0.007	0.011	0.000000	0.000000	399.30	1708.24
3	GUIDE	used	896538696	6.78	1154	-0.097	0.165	0.066	0.103	266.298470	-28.325572	-958.21	-771.36
4	GUIDE	used	896538920	8.88	1153	0.038	-0.110	0.098	0.159	266.278728	-29.143592	1940.38	-1292.37
5	GUIDE	used	896540888	7.89	1154	-0.135	-0.142	0.090	0.149	267.212234	-28.246138	-776.76	2132.51
6	GUIDE	used	896540808	7.54	1154	0.240	-0.083	0.106	0.194	265.985401	-29.308604	2385.47	-2292.11
7	GUIDE	used	896539744	8.30	1153	-0.040	0.170	0.077	0.122	266.154264	-28.178023	-1551.80	-1142.68

2.4 Star Slots

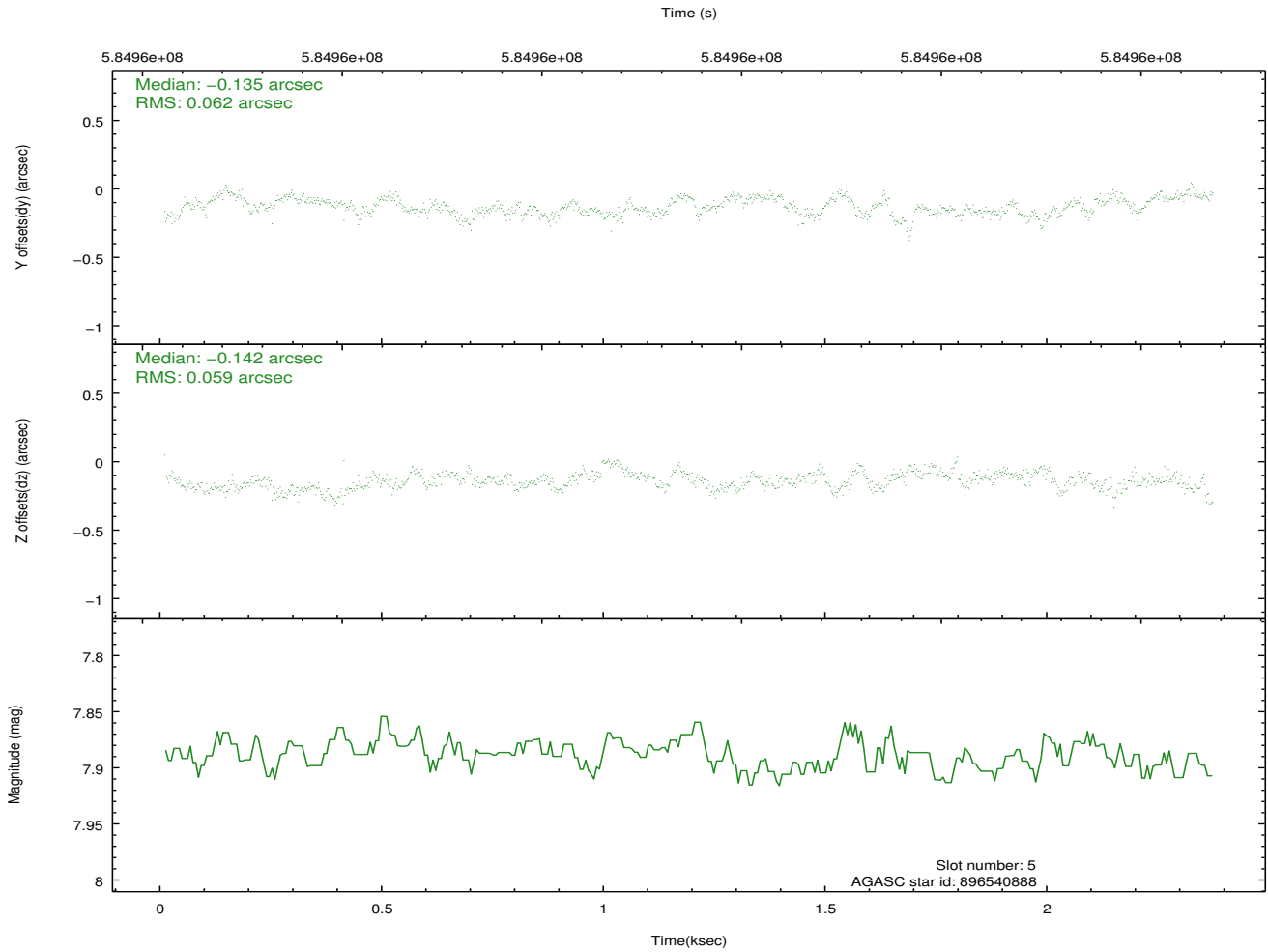
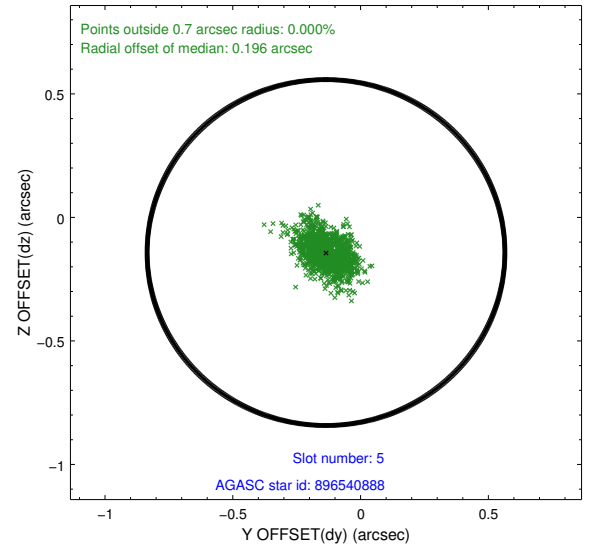
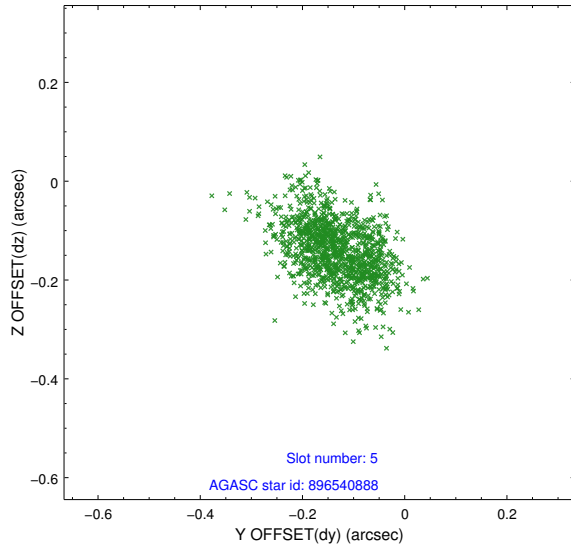
2.4.1 Slot 3



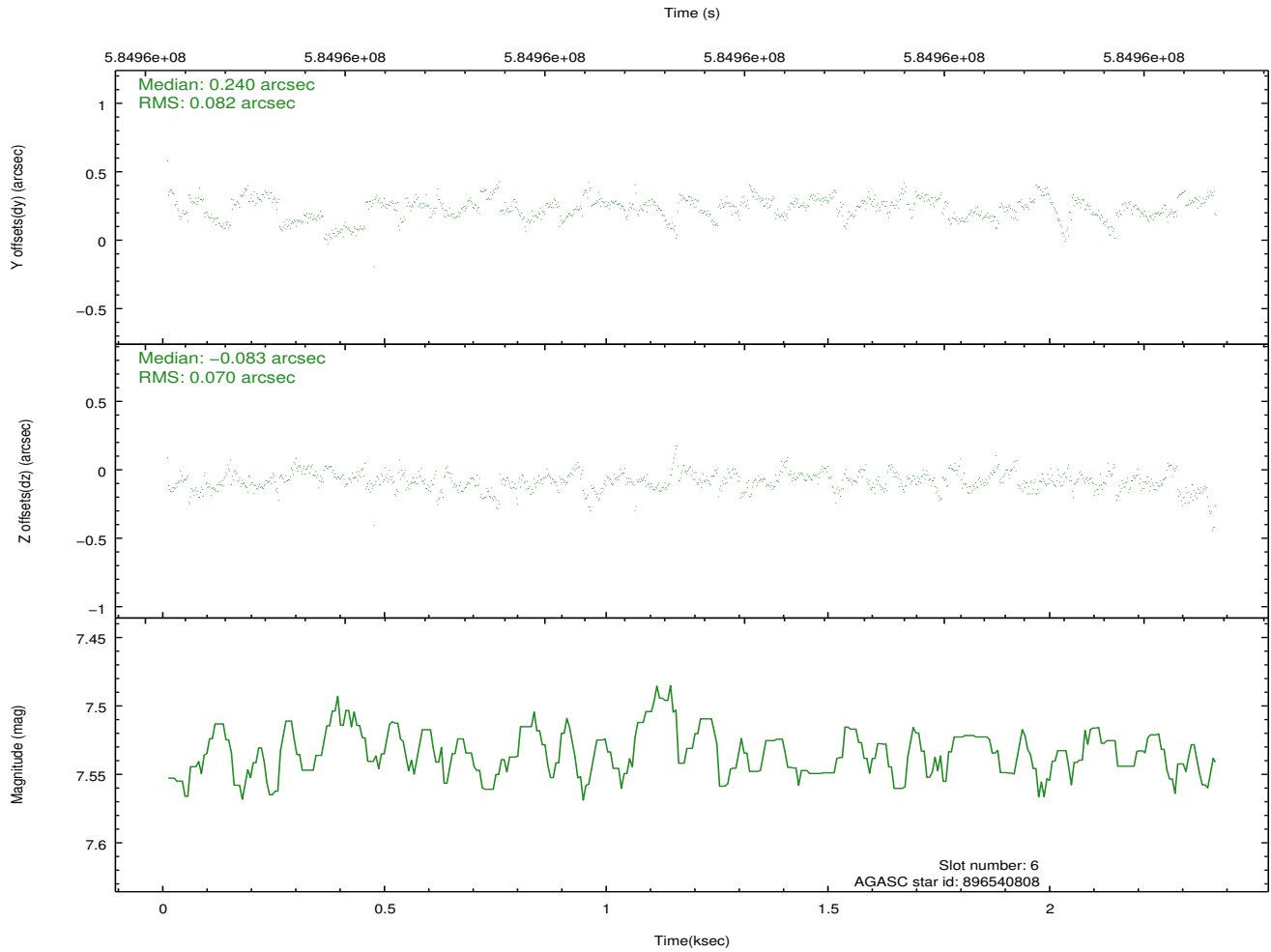
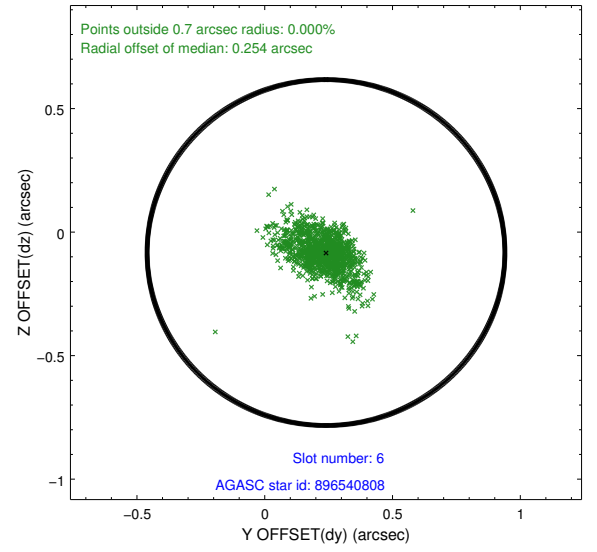
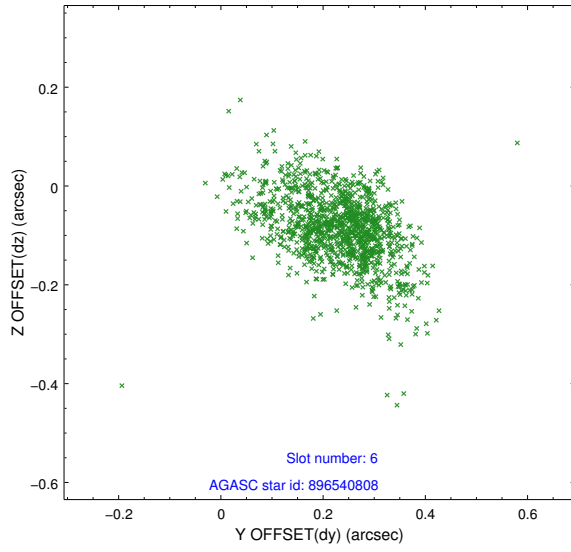
2.4.2 Slot 4



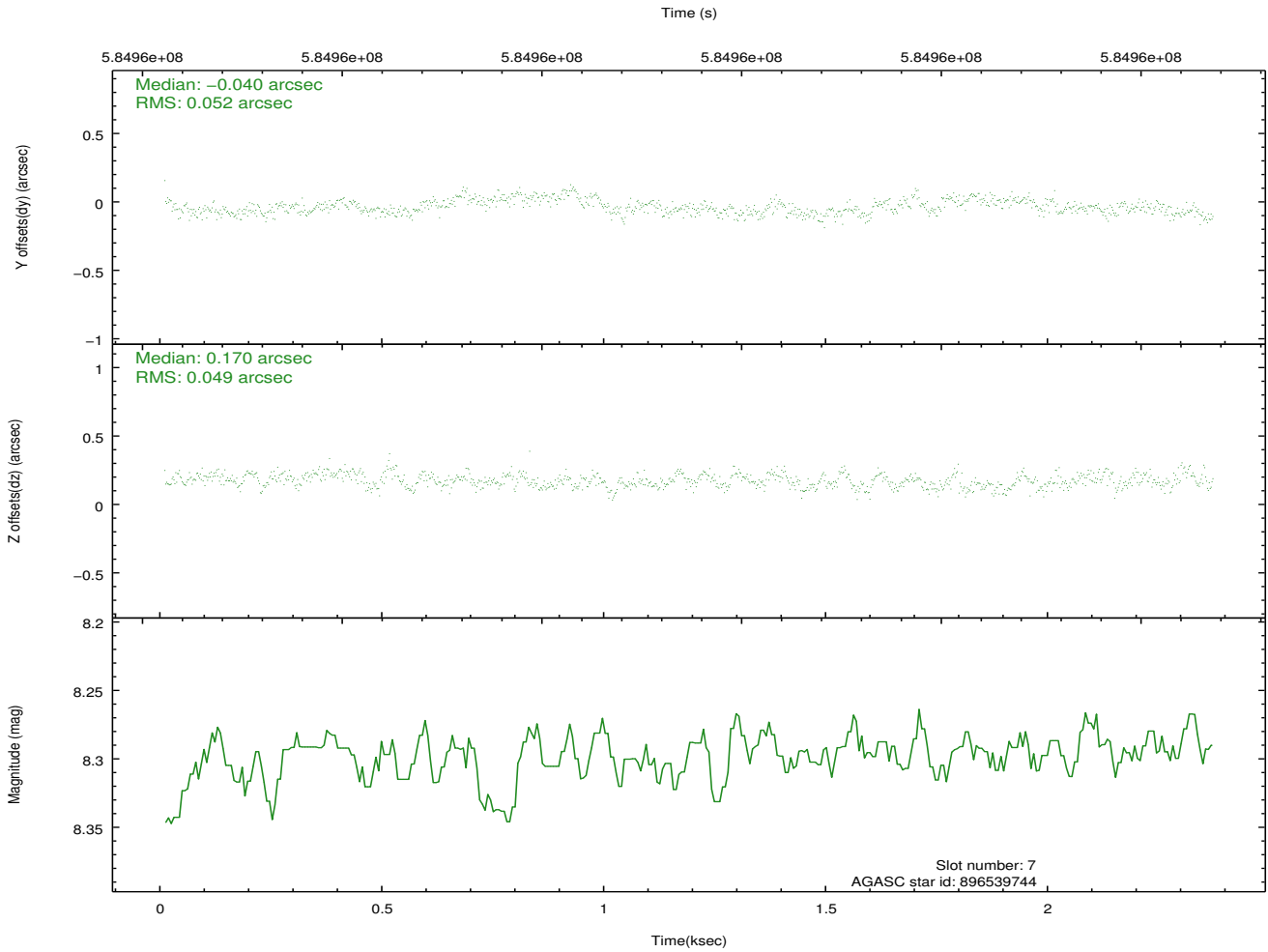
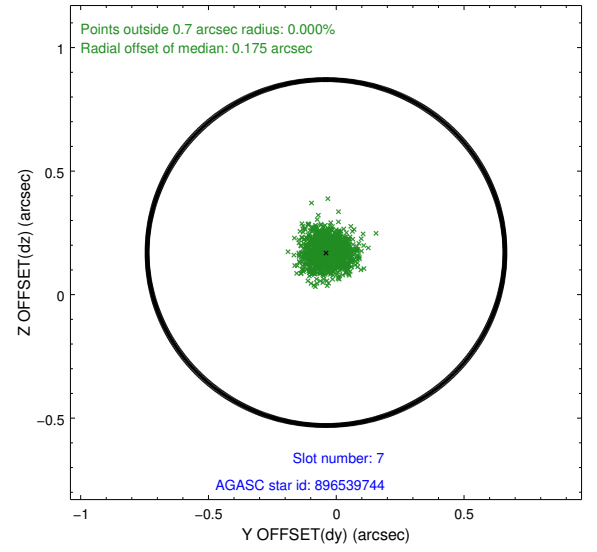
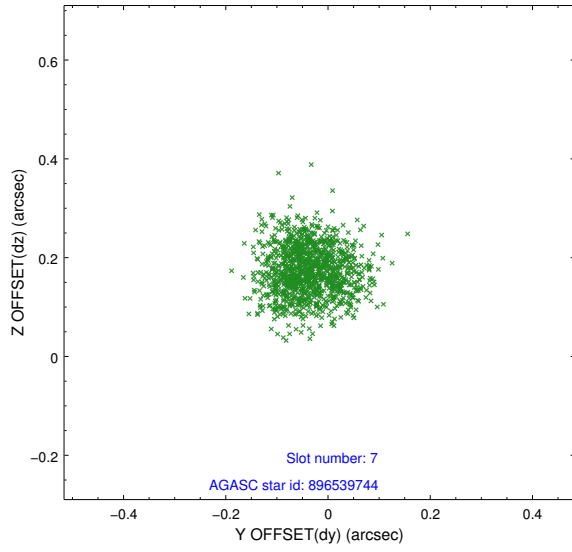
2.4.3 Slot 5



2.4.4 Slot 6

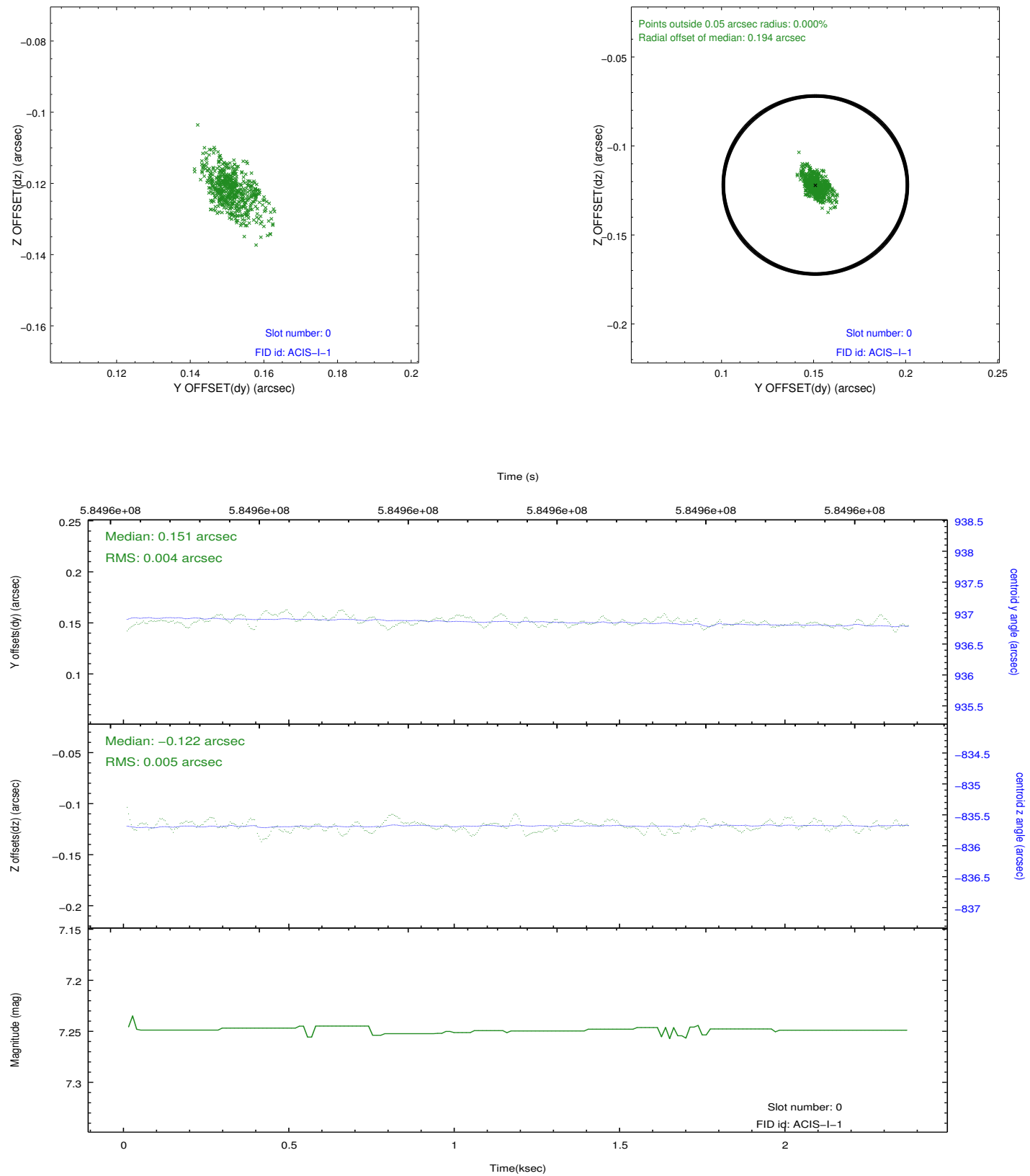


2.4.5 Slot 7

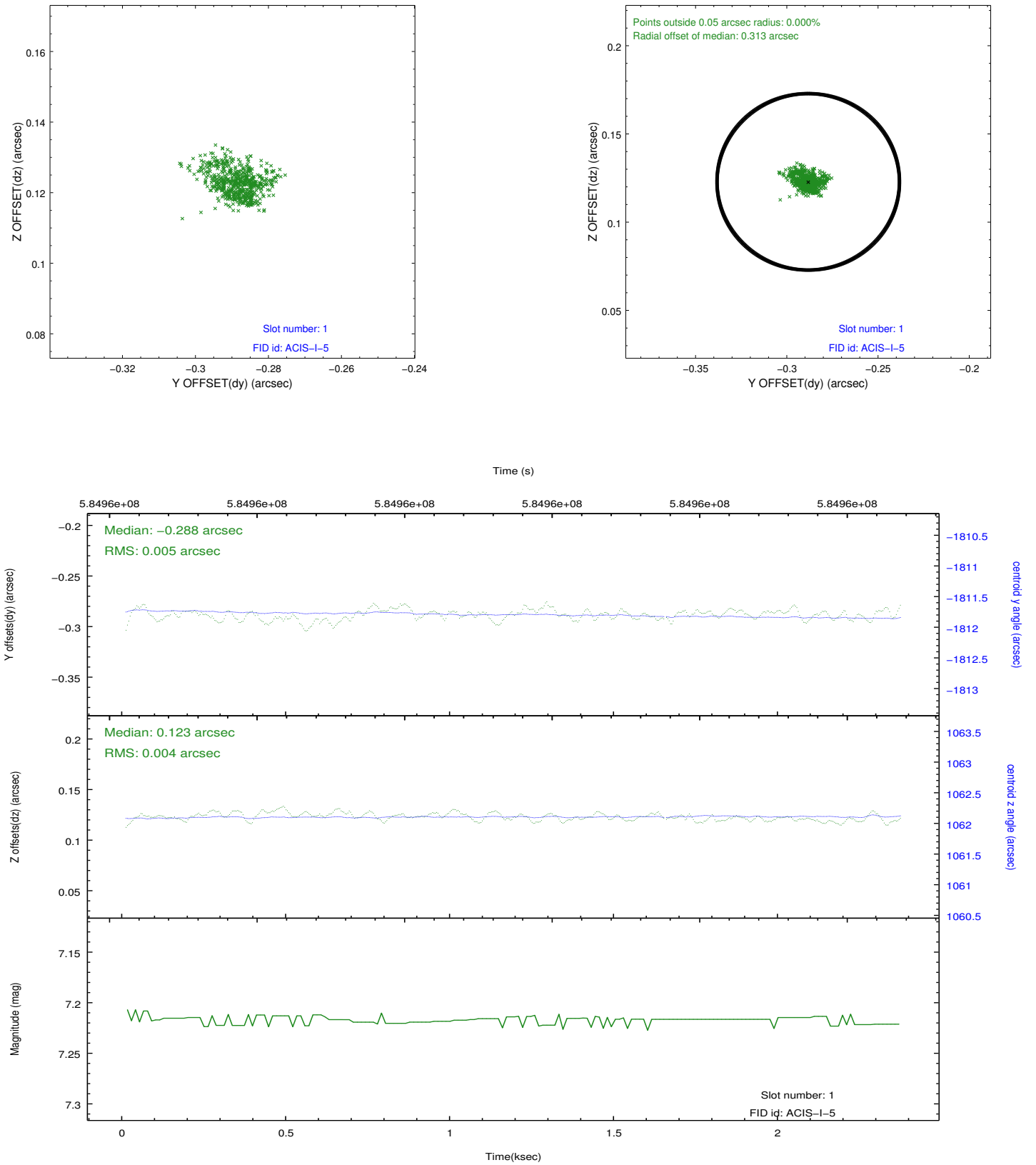


2.5 FID Slots

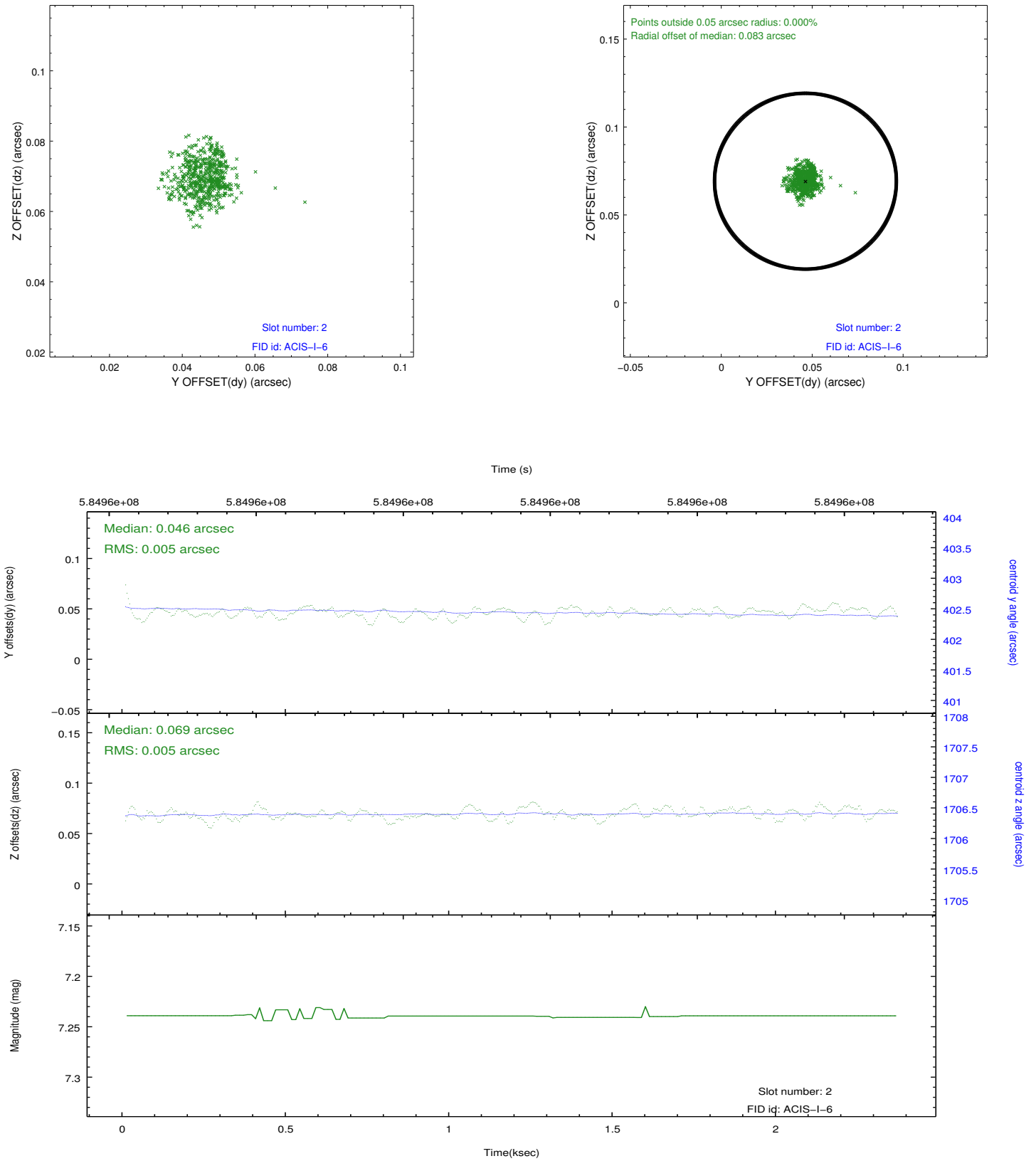
2.5.1 Slot 0



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	1.9558566319942

A.2 Comments