

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18993 - L2 Version 1
Chandra X-Ray Center

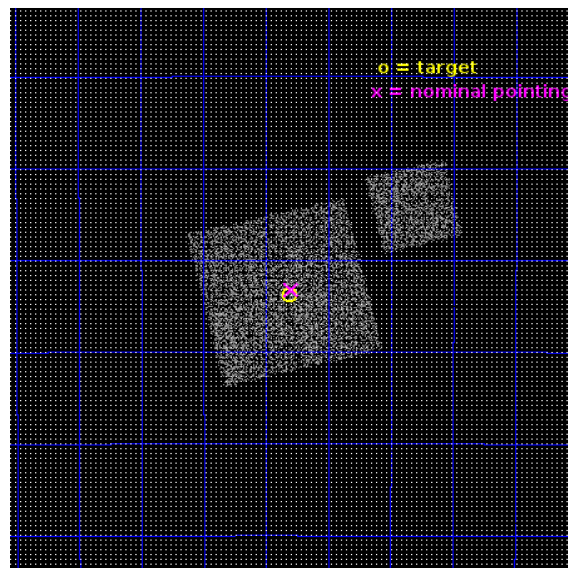
L2 Processing Date : May 20 2017

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1 Front

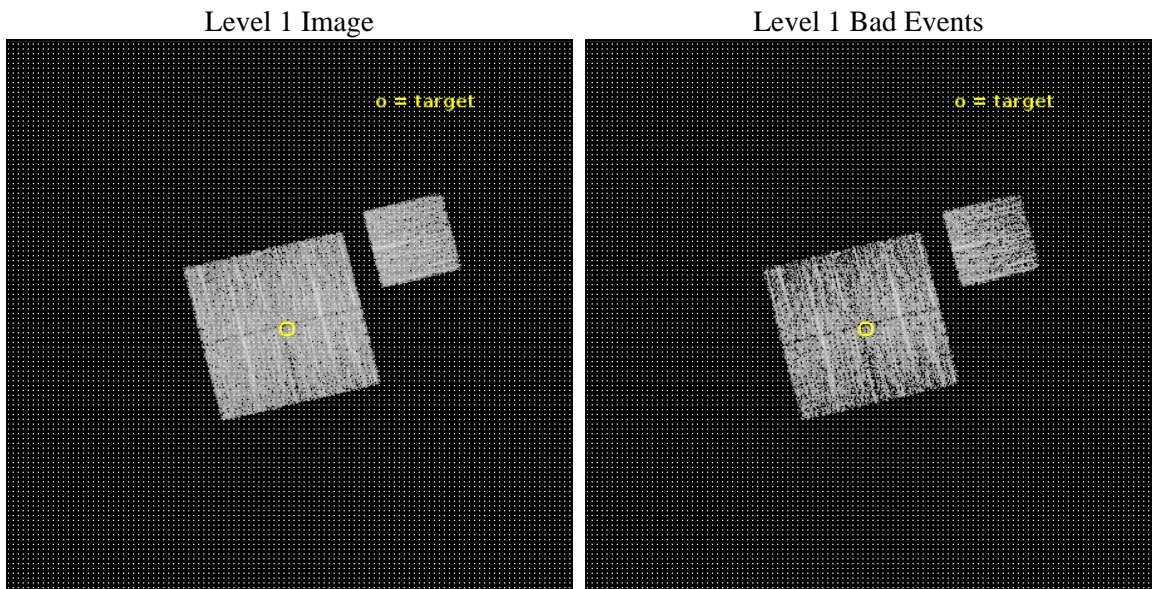
seq_num	401861	Sequence number
obs_id	18993	Observation id
title	Accurate localization of hard X-ray sources in the Galactic Center region. Search for HMXBs in the bulge	Proposal title
observer	Alexander Lutovinov	Principal investigator
object	AX J1739.3-2923	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.826667	Observer's specified target RA [deg]
dec_targ	-29.397	Observer's specified target Dec [deg]
ra_nom	264.8239633326	Nominal RA [deg]
dec_nom	-29.387283776168	Nominal Dec [deg]
roll_nom	76.205893177414	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3078.3000237942	Sum of GTIs [s]
livetime	3038.0797677718	Livetime [s]
ontime0	3078.3000237942	Sum of GTIs [s]
ontime1	3078.3000237942	Sum of GTIs [s]
ontime2	3078.3000237942	Sum of GTIs [s]
ontime3	3078.3000237942	Sum of GTIs [s]
ontime6	3078.3000237942	Sum of GTIs [s]
l2events	11701	Number of level 2 events



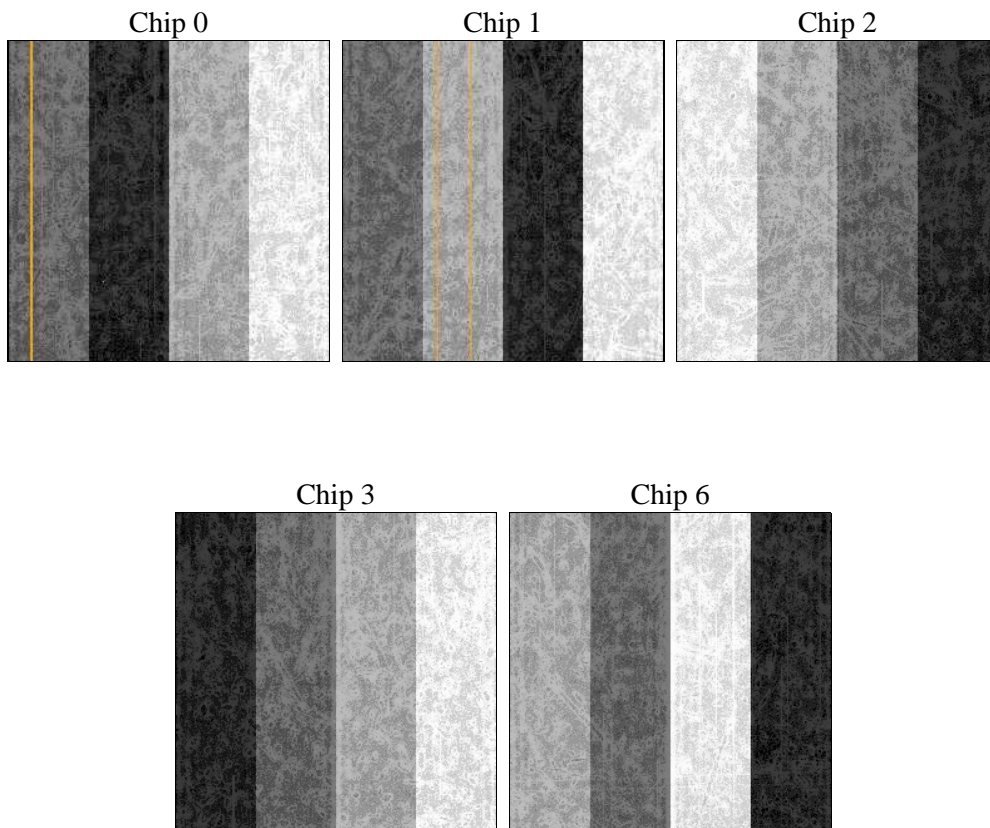
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3008.084000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	3078.3000237942	Sum of GTIs [s]
caldsver	4.7.4	 	ontime0	3078.3000237942	Sum of GTIs [s]
date	2017-05-20T05:00:47	Date and time of file creation	ontime1	3078.3000237942	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3078.3000237942	Sum of GTIs [s]
			ontime3	3078.3000237942	Sum of GTIs [s]
			ontime6	3078.3000237942	Sum of GTIs [s]
			l1events	112403	Number of level 1 events

2.1.4 Events

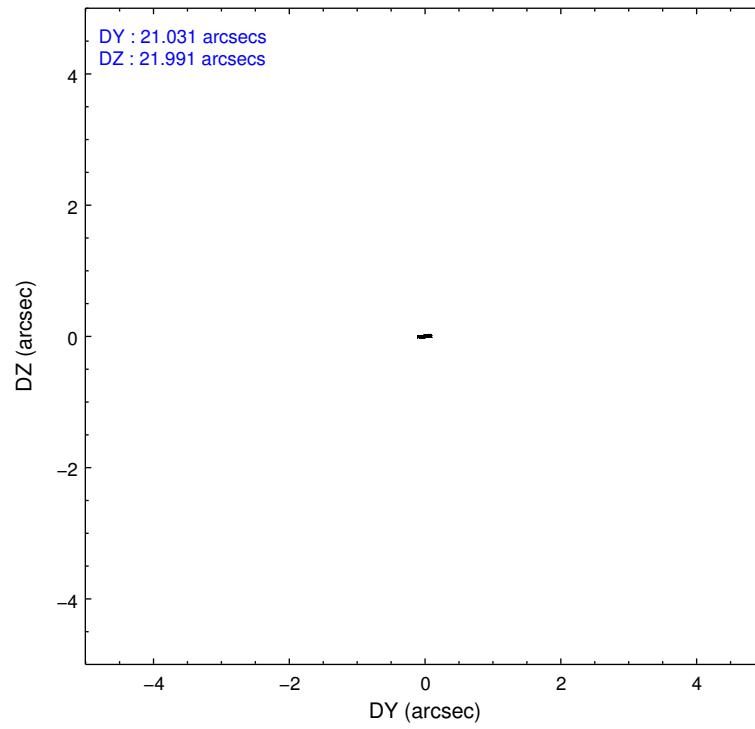
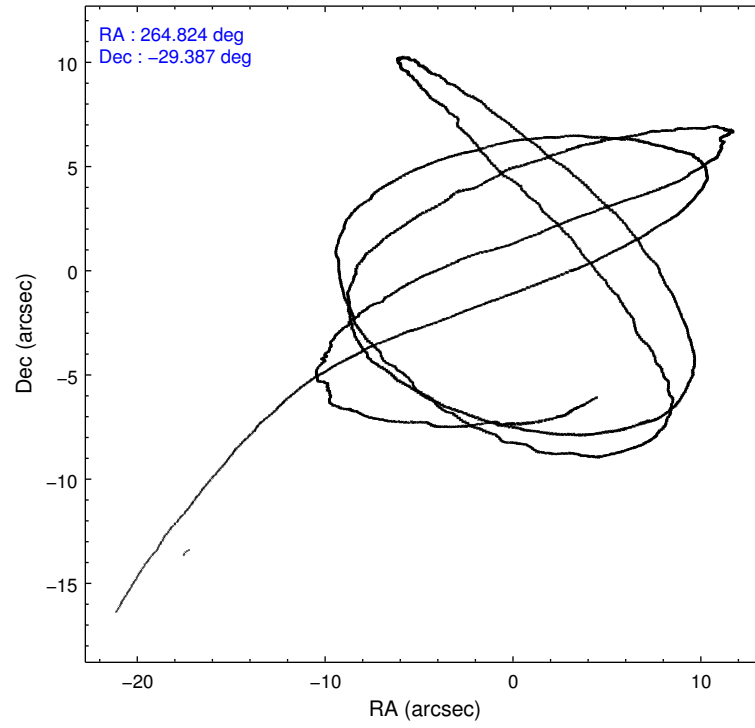
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21907	21622	23010	23063	22801
rejected events	19219	18584	20442	20252	20159
rejected %	87%	85%	88%	87%	88%

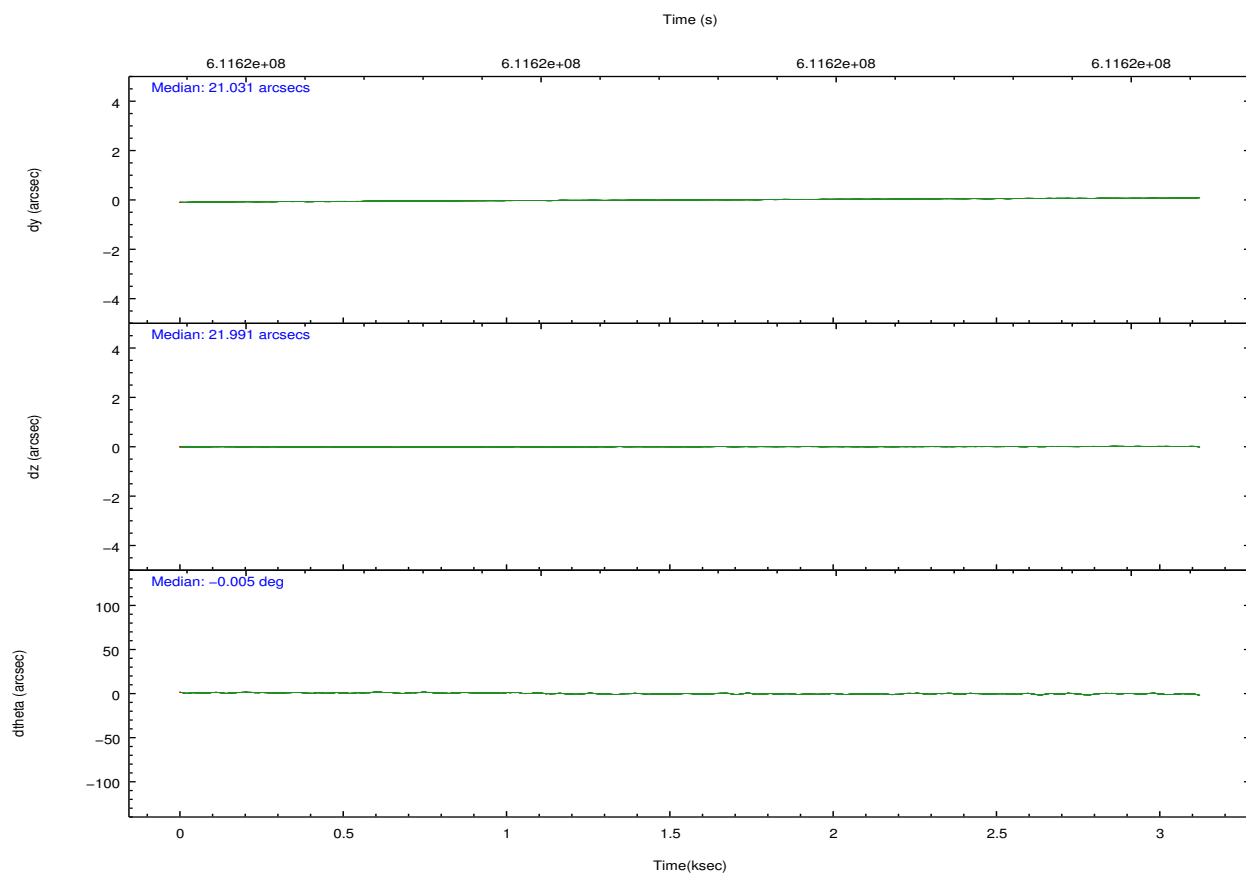
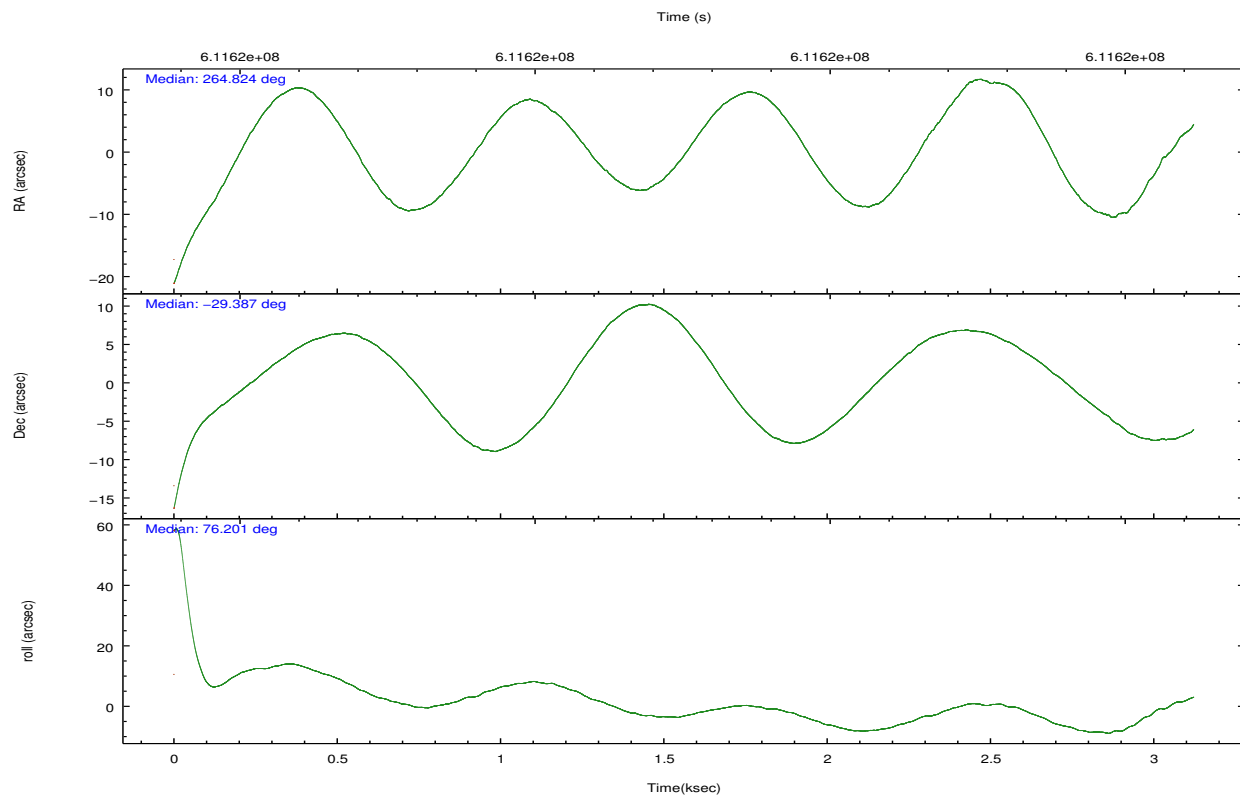
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1039	1142	1025	1187	1010
	4%	5%	4%	5%	4%
grade 1 events	15	10	15	12	8
	0%	0%	0%	0%	0%
grade 2 events	607	739	617	609	557
	2%	3%	2%	2%	2%
grade 3 events	262	263	227	254	276
	1%	1%	0%	1%	1%
grade 4 events	239	260	253	243	246
	1%	1%	1%	1%	1%
grade 5 events	910	1050	921	1064	912
	4%	4%	4%	4%	3%
grade 6 events	546	640	452	523	558
	2%	2%	1%	2%	2%
grade 7 events	18289	17518	19500	19171	19234
	83%	81%	84%	83%	84%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	264.833052	264.8239633325992	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.413723	-29.38728377616796	Alternating exposures requested	N	N
[deg] Pointing Roll	76.001396	76.20589317741356	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5899487761303			
[mm] SIM translation stage offset	0	-0.002504226799430853			
[s] Observation start time (MET)	611620062.184000	611618797.13462			
Observation start date	2017-05-19T22:26:33	2017-05-19T22:06:37			
[s] Observation end time (MET)	611623070.184000	611623308.15988			
Observation end date	2017-05-19T23:16:41	2017-05-19T23:21:48			
Read mode	TIMED	TIMED			

2.3 Aspect



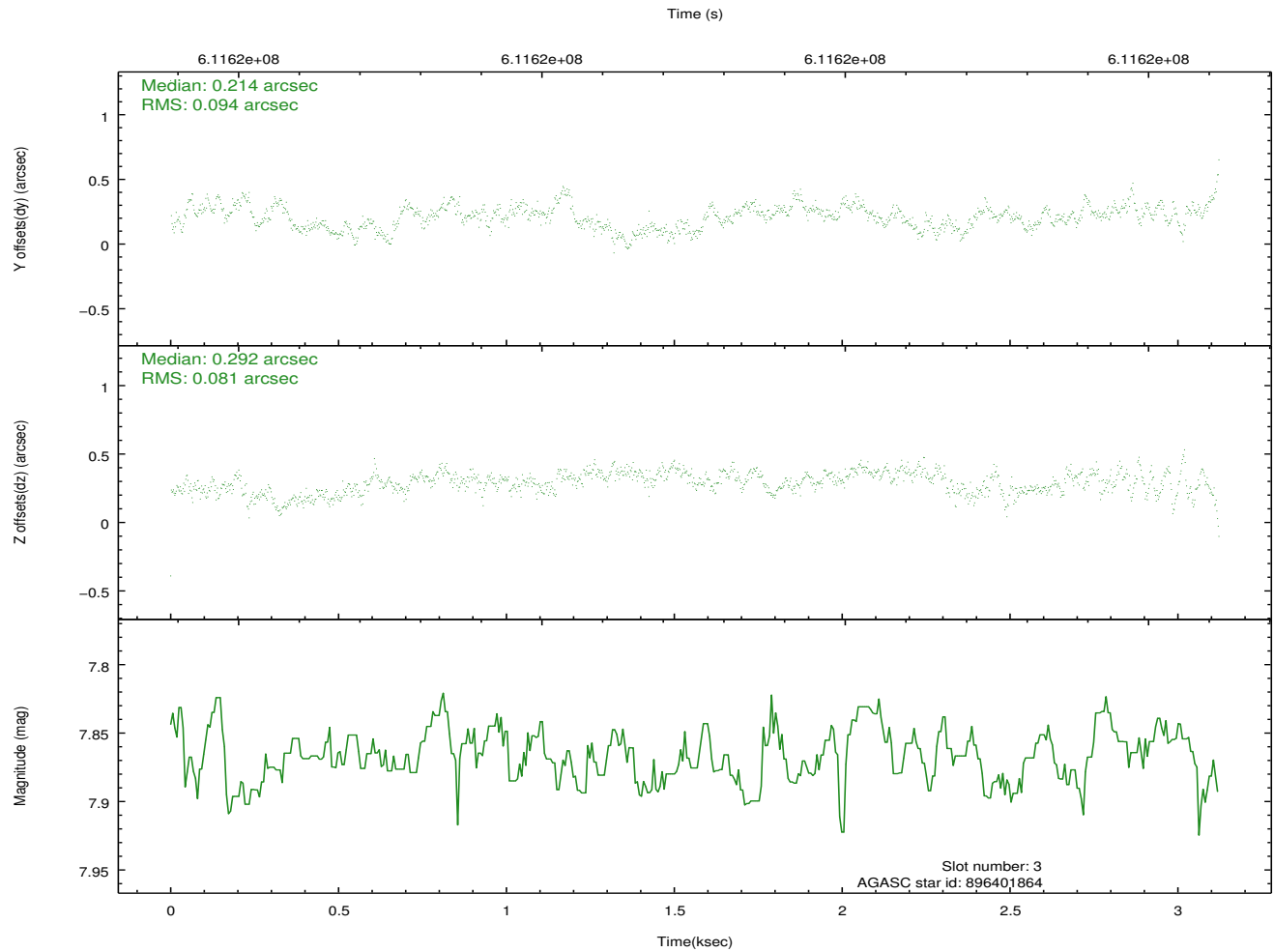
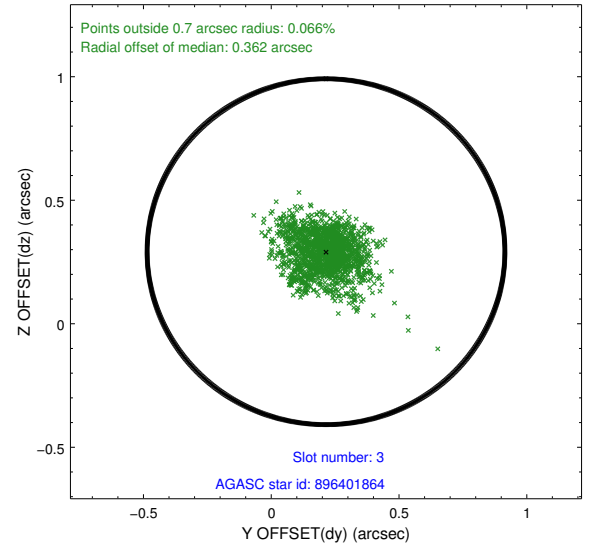
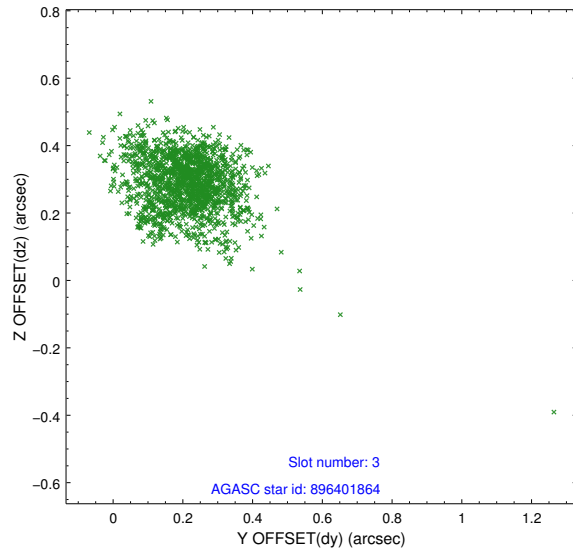


Slot Statistics

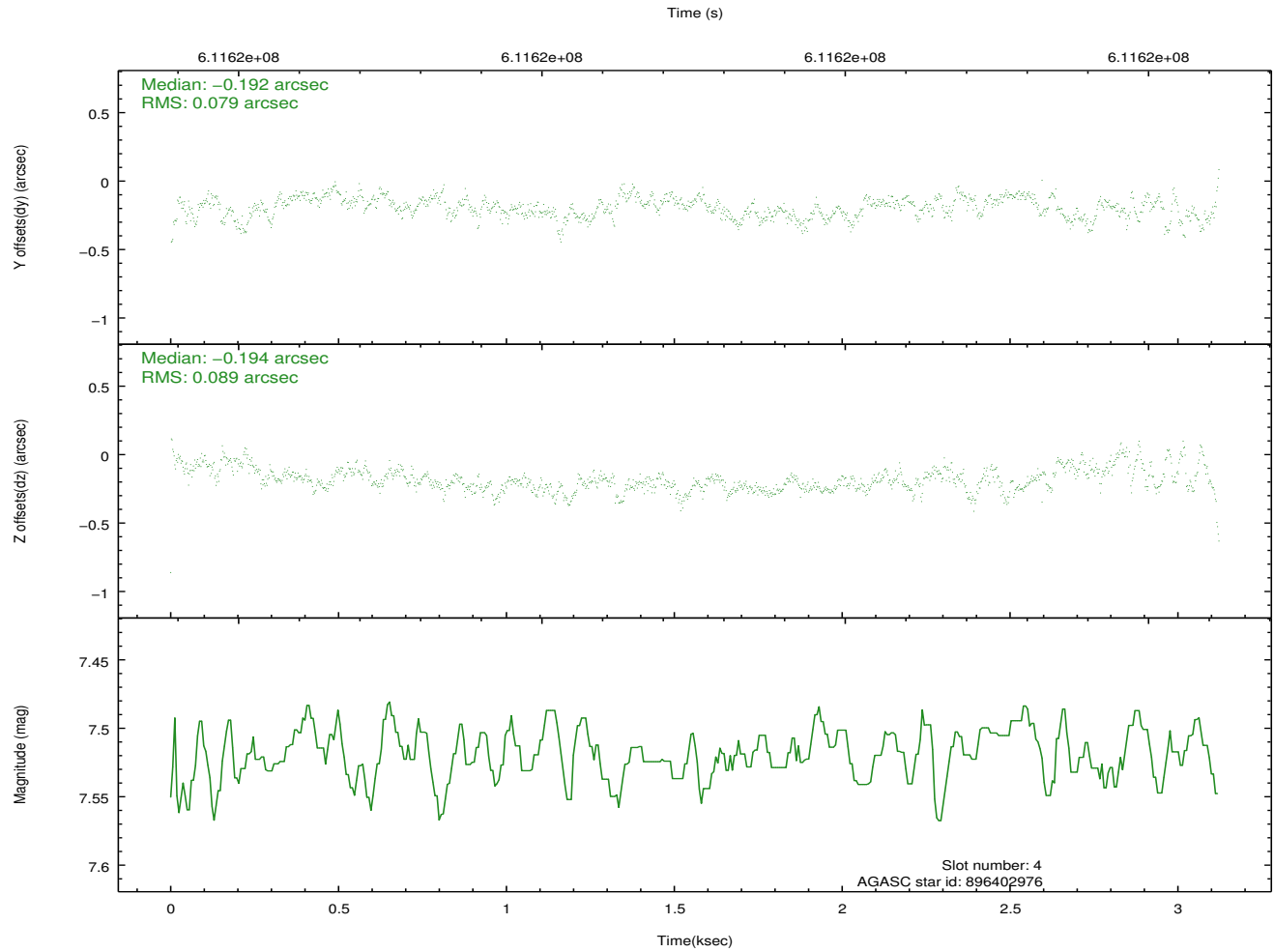
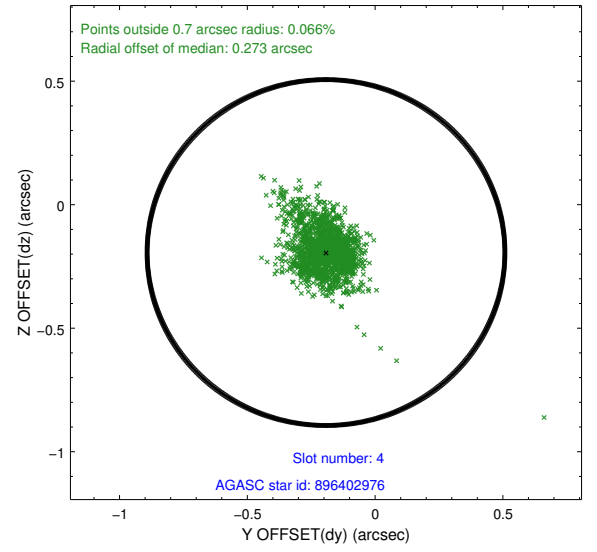
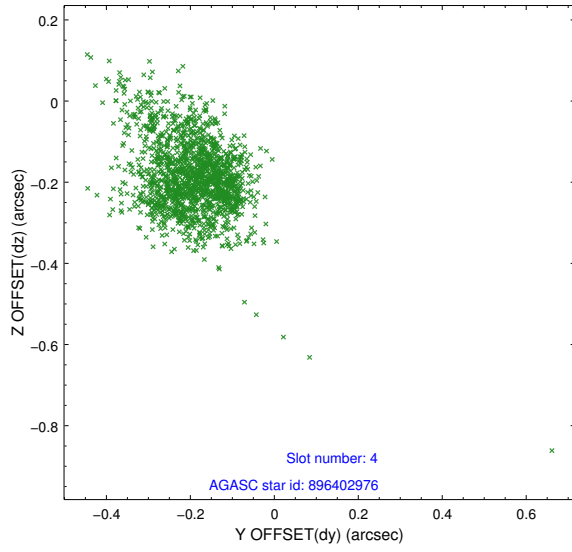
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	762	0.118	-0.087	0.010	0.017	0.000000	0.000000	918.43	-845.76
1	FID		ACIS-I-5	7.16	762	-0.453	0.045	0.007	0.011	0.000000	0.000000	-1829.24	1050.67
2	FID		ACIS-I-6	7.17	762	0.243	0.113	0.008	0.013	0.000000	0.000000	381.72	1697.68
3	GUIDE	used	896401864	7.87	1524	0.214	0.292	0.126	0.206	264.861768	-29.959752	-1884.91	-562.36
4	GUIDE	used	896402976	7.52	1524	-0.192	-0.194	0.114	0.207	265.099474	-28.923203	1914.68	-388.11
5	GUIDE	used	896403224	8.26	1524	0.156	0.189	0.135	0.219	265.612825	-29.438915	497.24	-2396.33
6	GUIDE	used	896404376	6.67	1524	-0.185	-0.040	0.111	0.206	264.835179	-29.530972	-407.29	-110.29
7	GUIDE	used	896406904	8.95	1522	0.009	-0.249	0.141	0.225	264.311862	-29.742267	-1545.14	1293.25

2.4 Star Slots

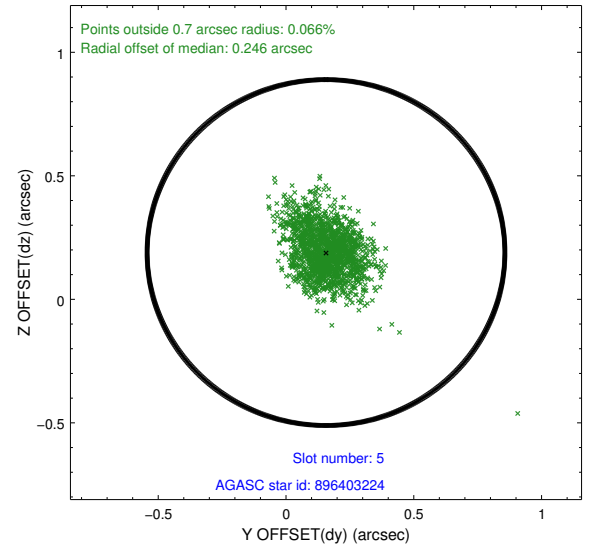
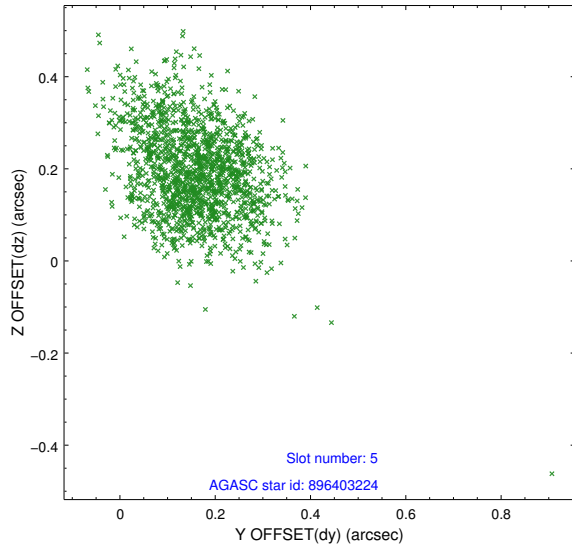
2.4.1 Slot 3



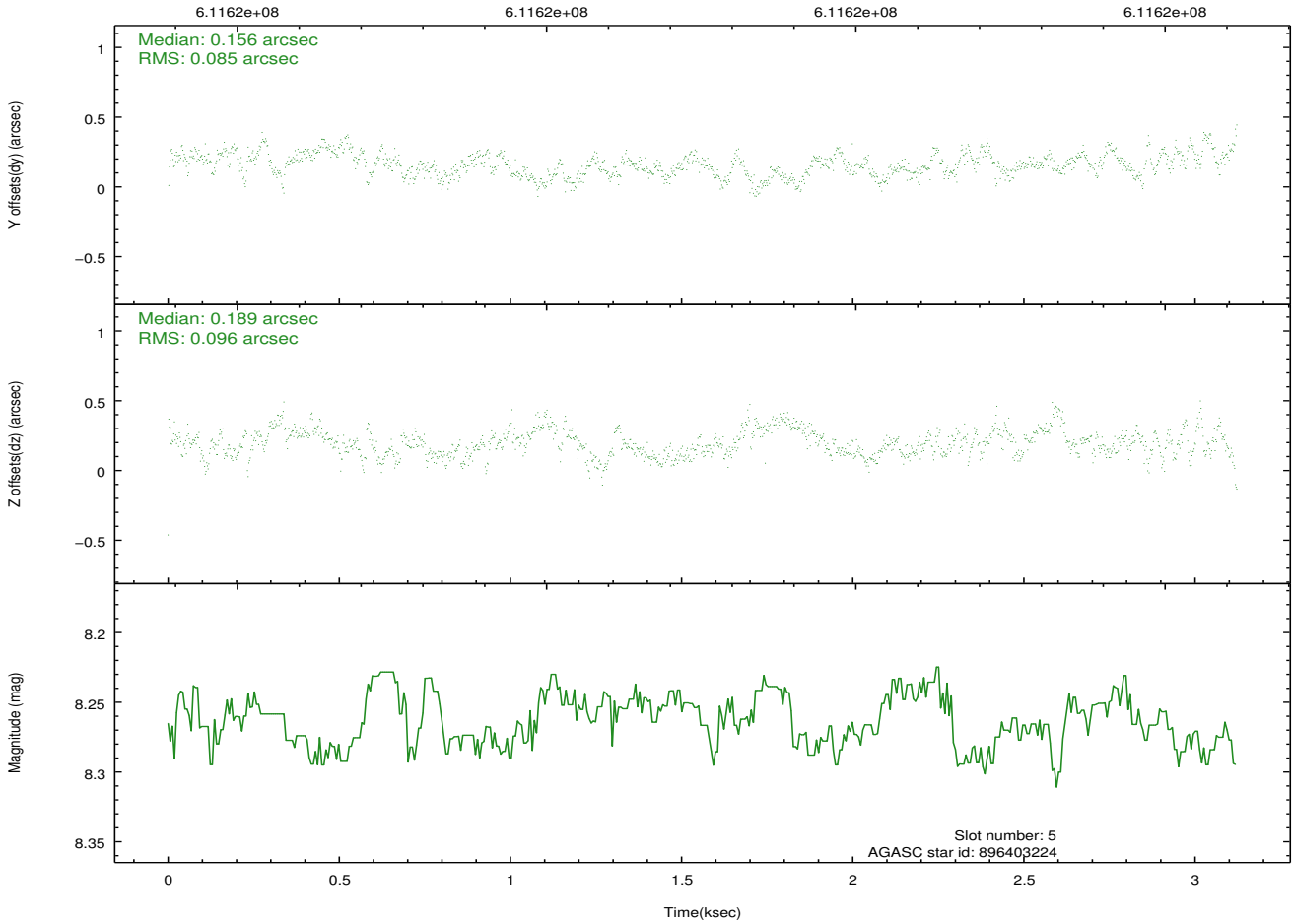
2.4.2 Slot 4



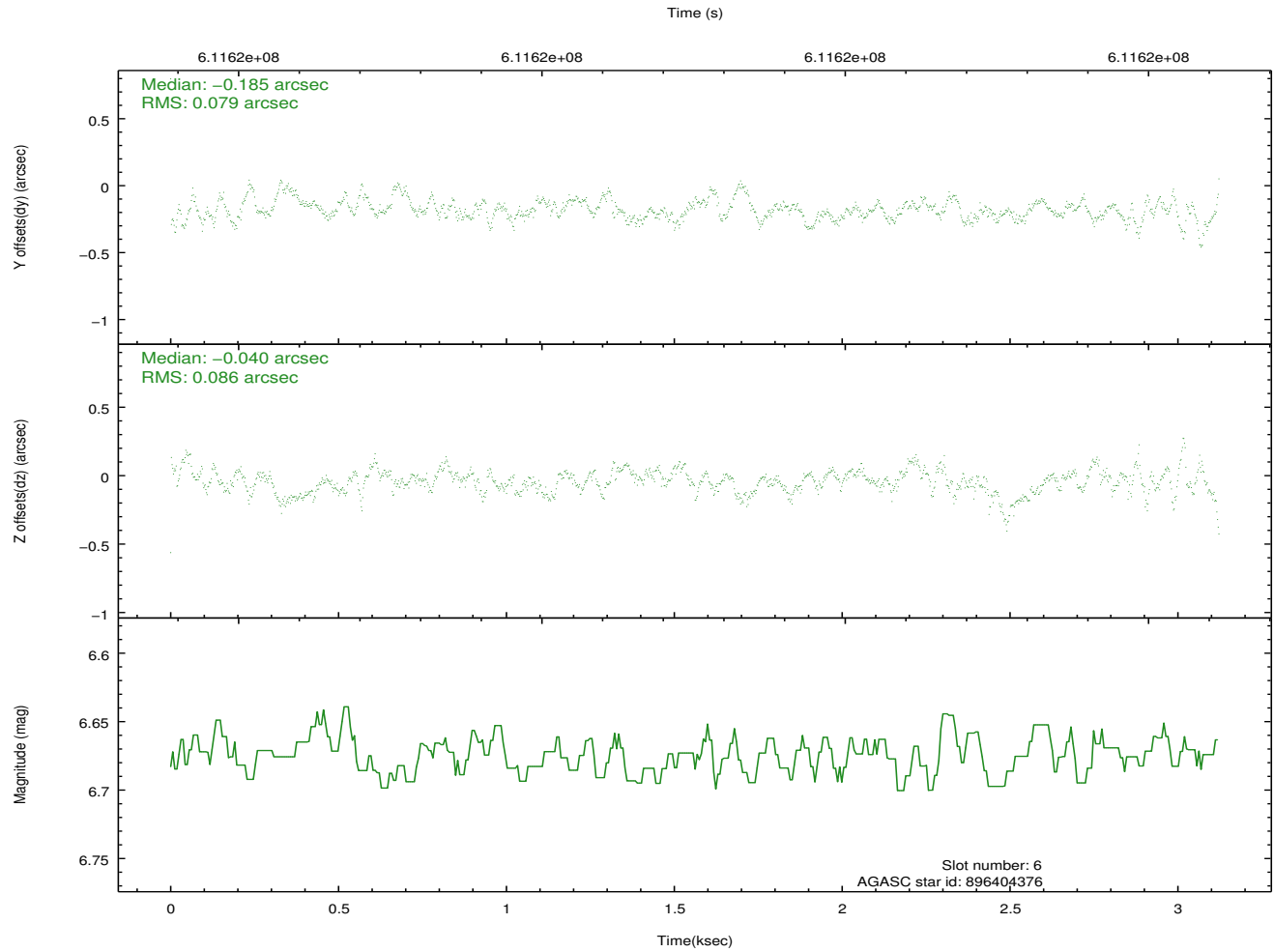
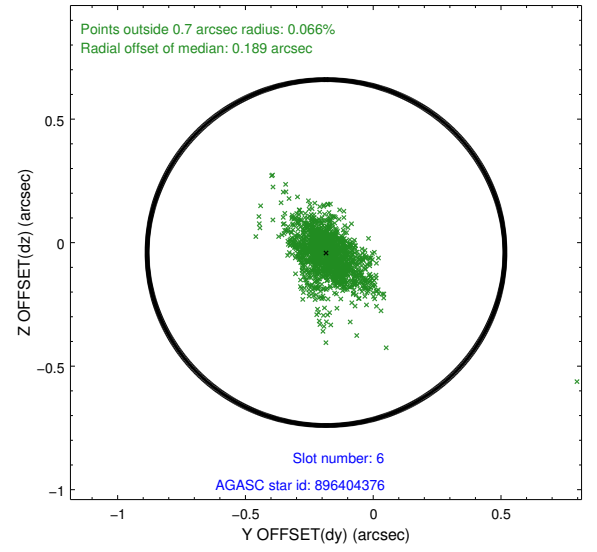
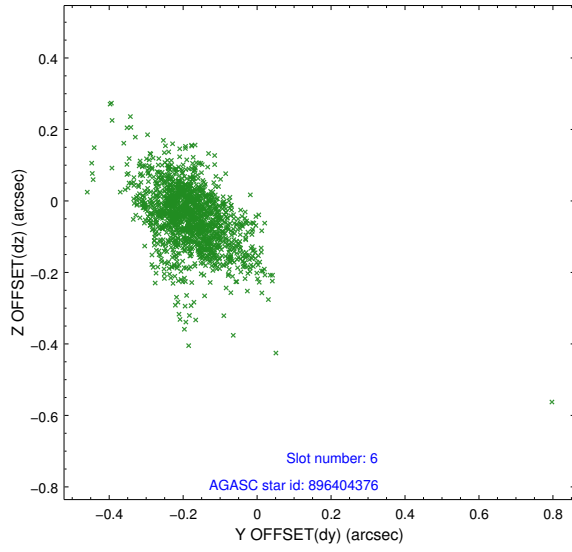
2.4.3 Slot 5



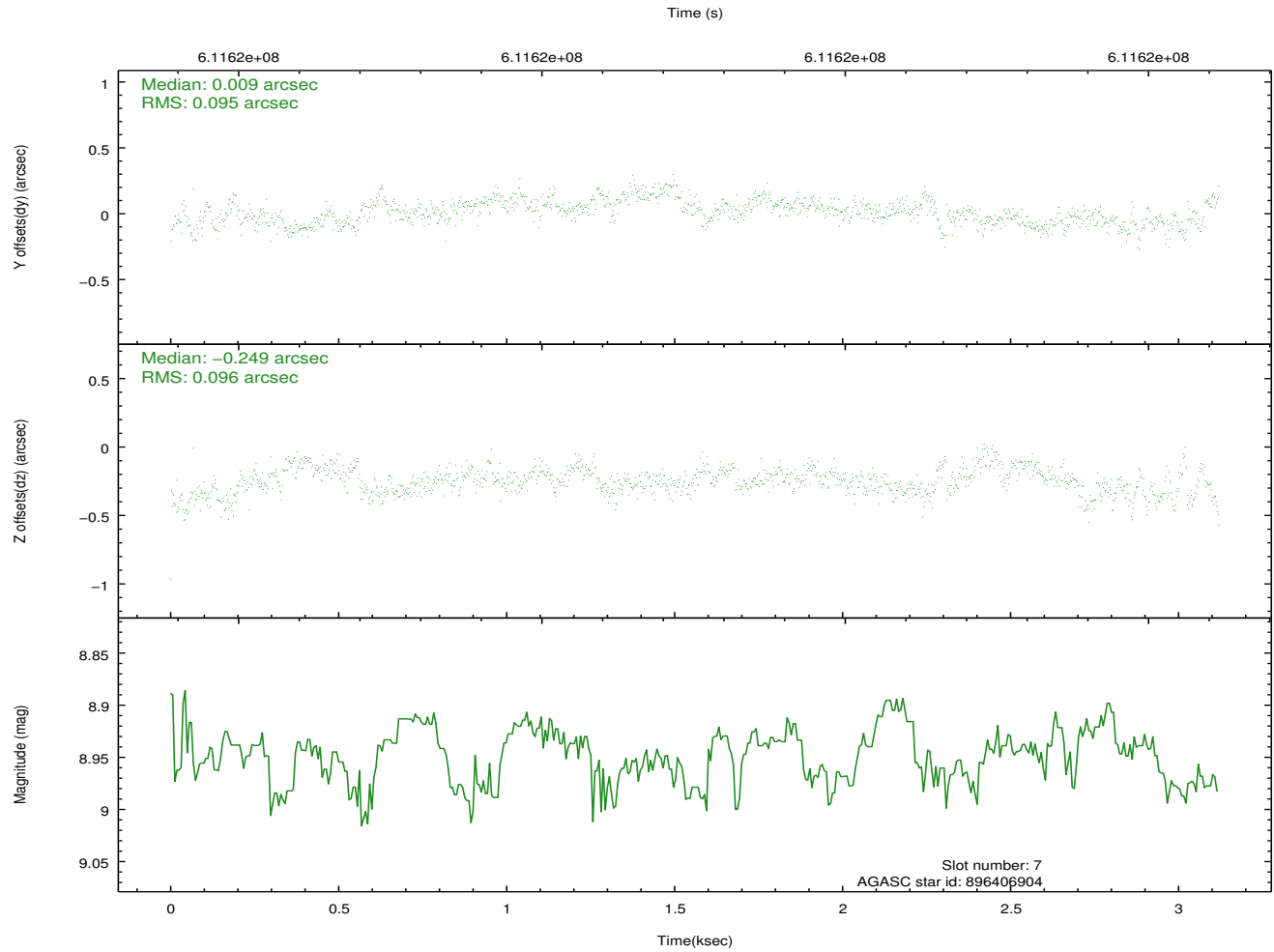
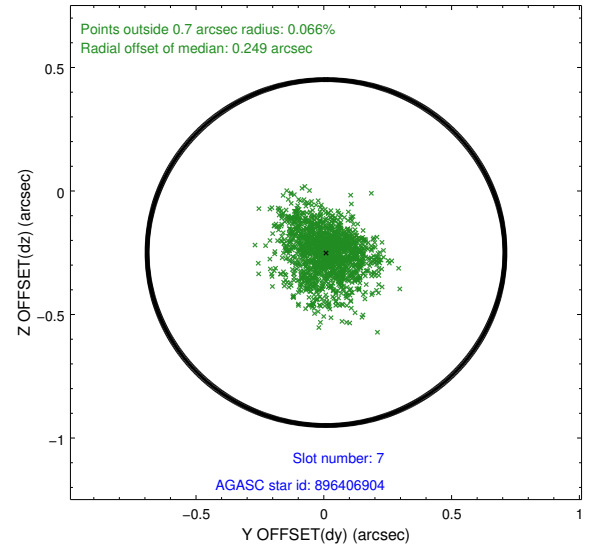
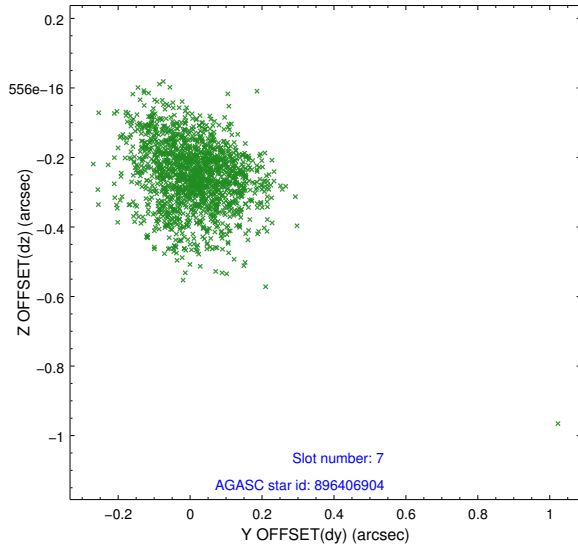
Time (s)



2.4.4 Slot 6

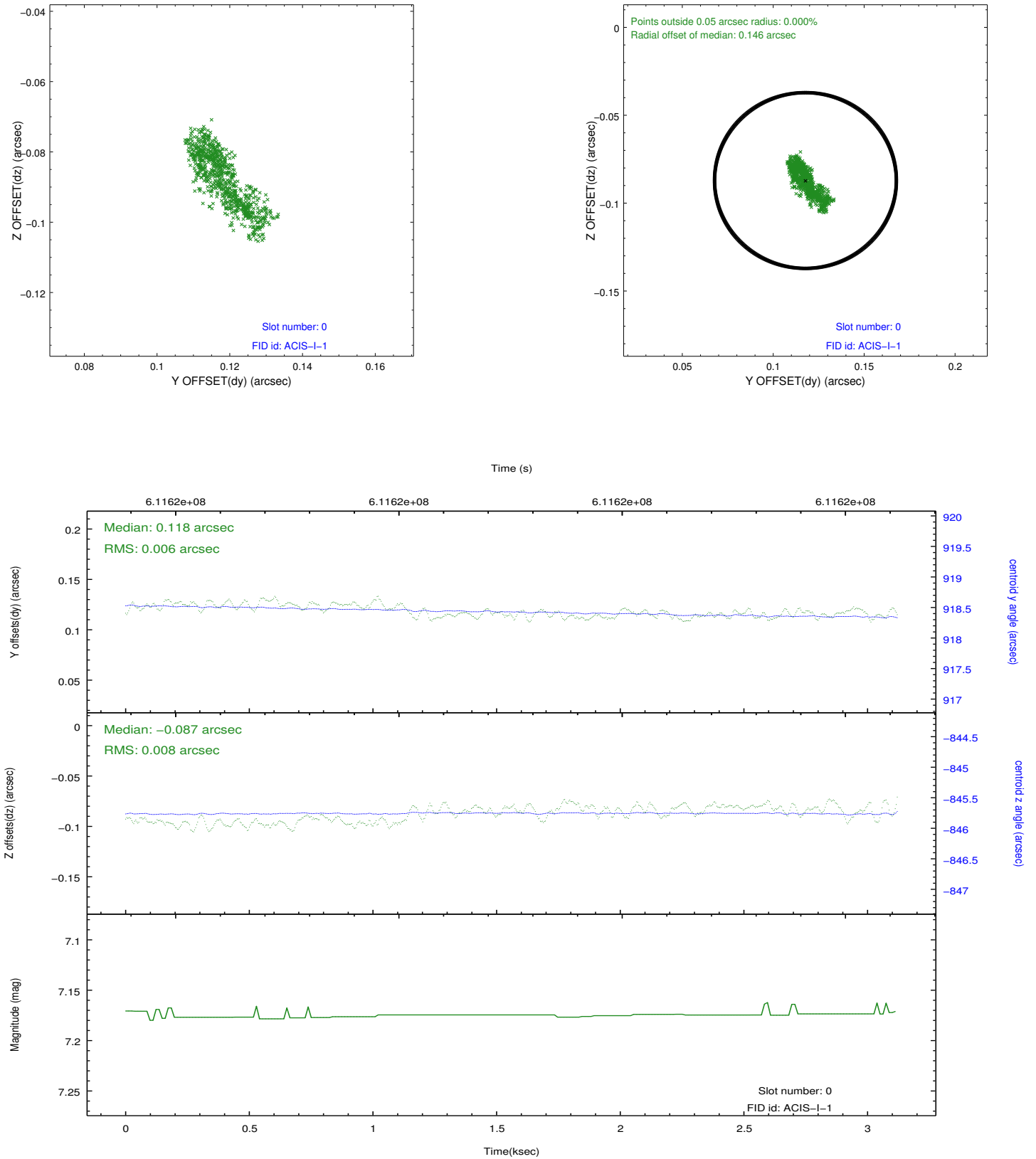


2.4.5 Slot 7

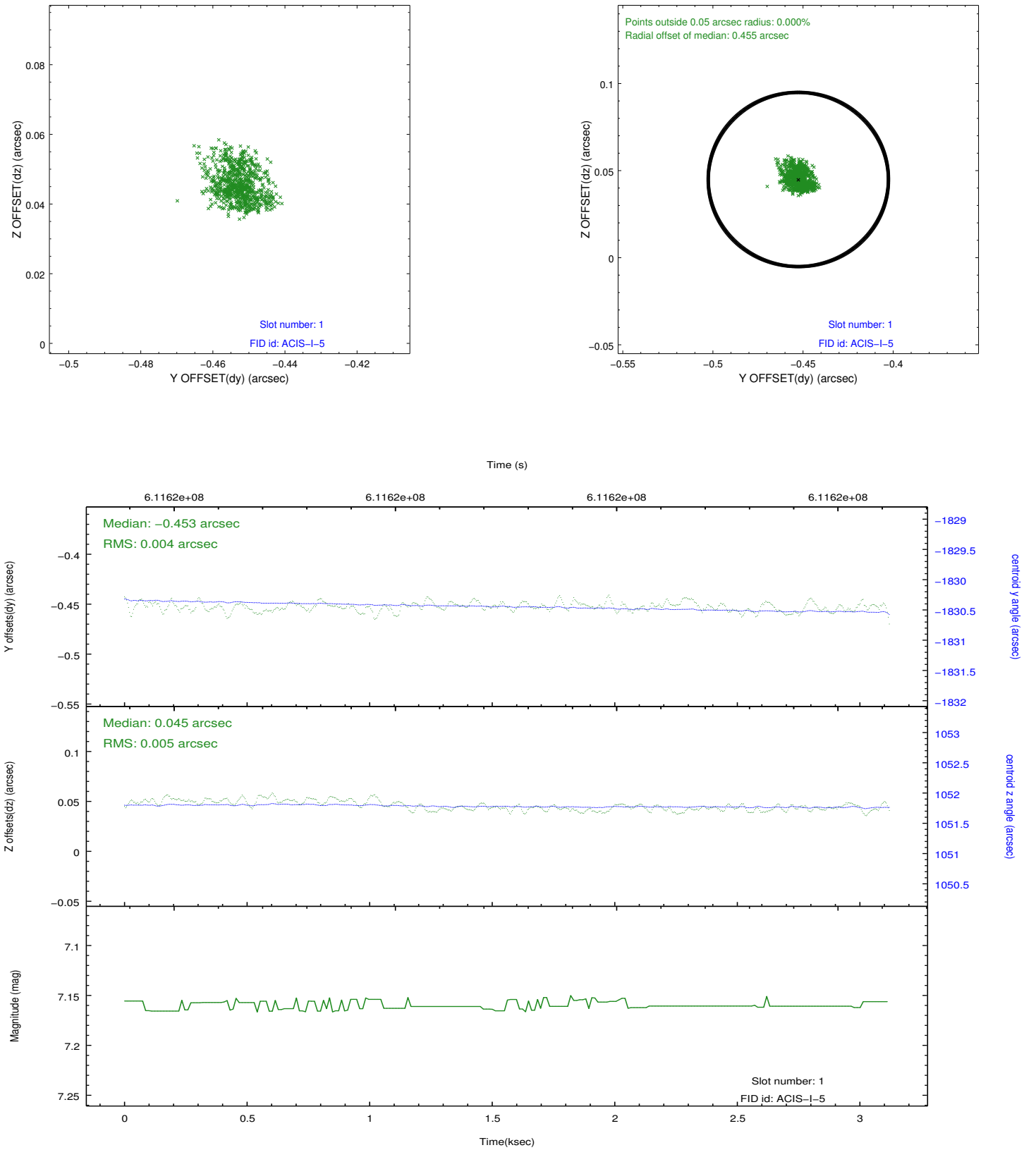


2.5 FID Slots

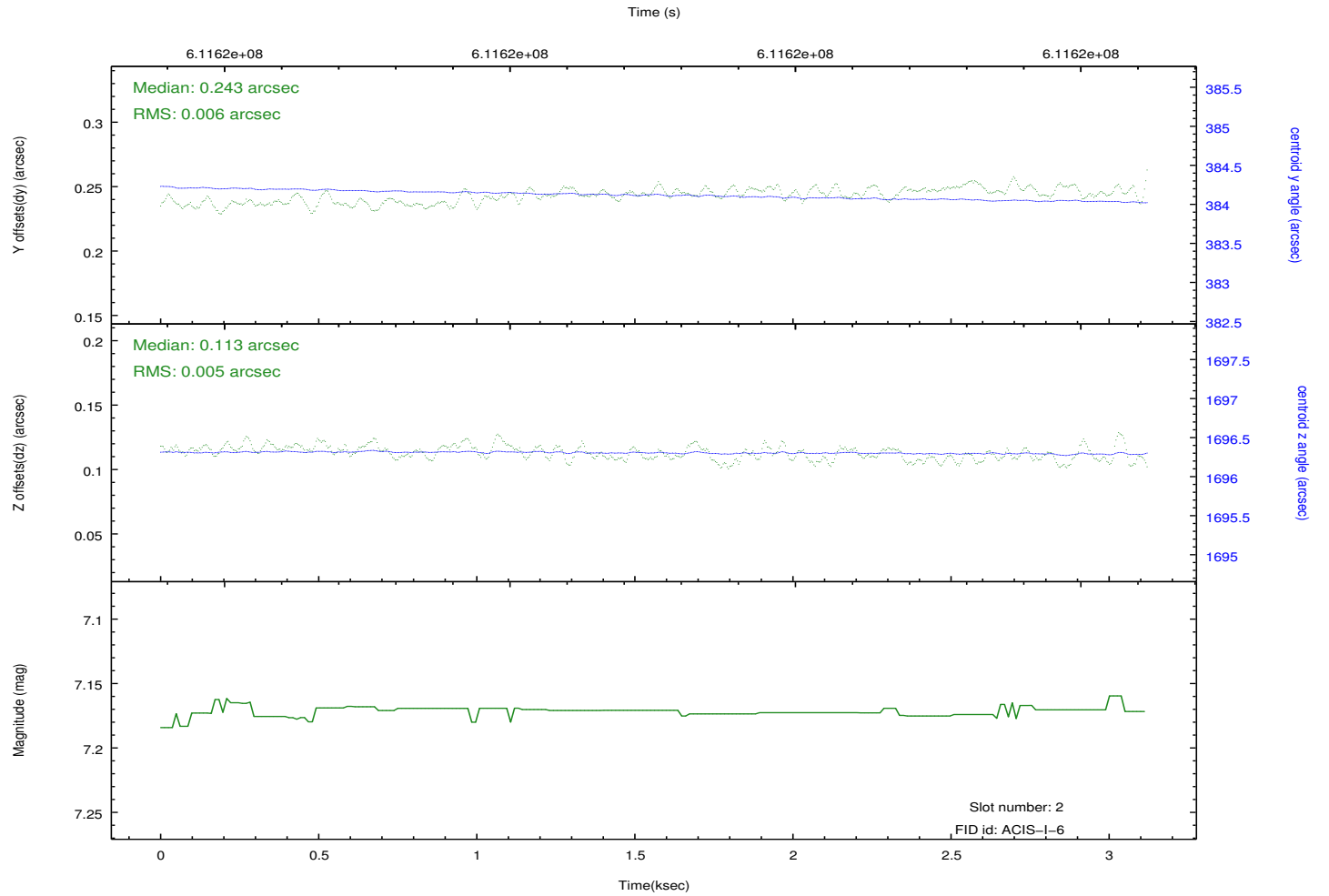
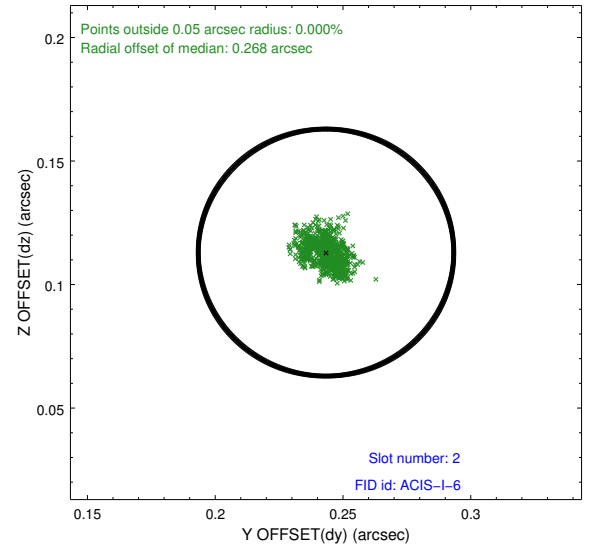
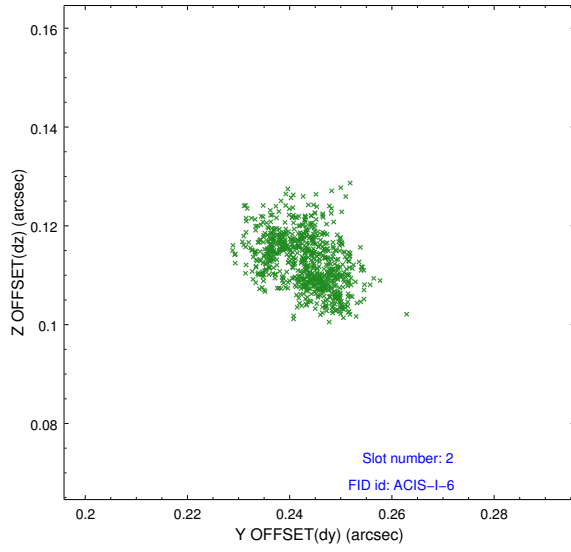
2.5.1 Slot 0



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)	2017.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0783000237942

A.2 Comments