

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18286 - L2 Version 1
Chandra X-Ray Center

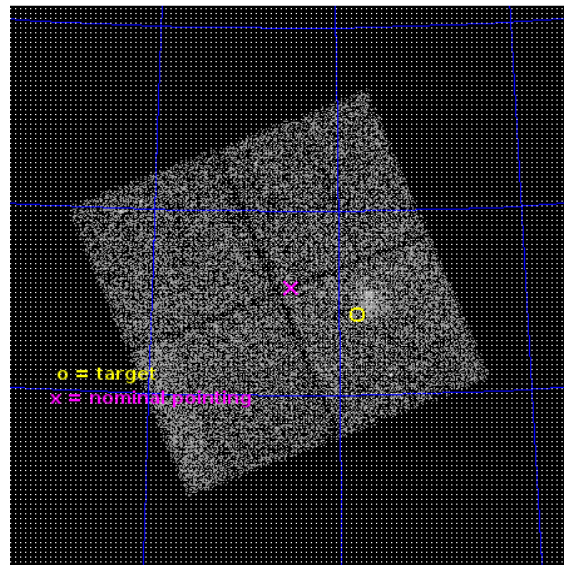
L2 Processing Date : Aug 29 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

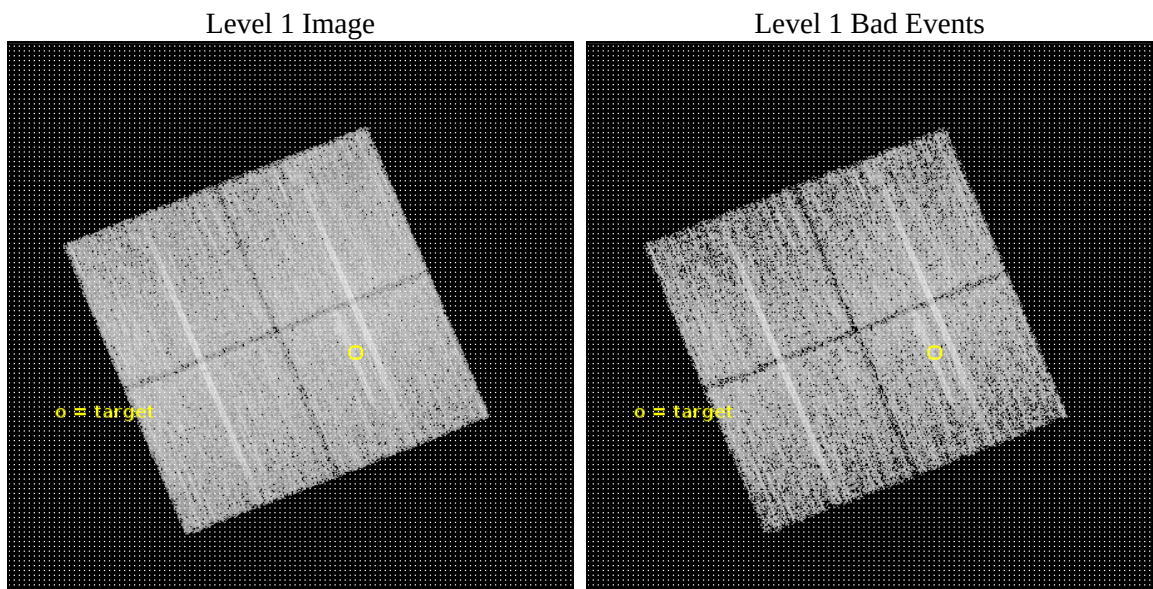
seq_num	801604	Sequence number
obs_id	18286	Observation id
title	Building a Cheap and Cheerful SZ-selected sample of galaxy clusters with the Planck Catalogue.	Proposal title
observer	Mariachiara Rossetti	Principal investigator
object	PSZ2 G127.01+26.21	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.7625	Observer's specified target RA [deg]
dec_targ	86.239889	Observer's specified target Dec [deg]
ra_nom	90.630938484532	Nominal RA [deg]
dec_nom	86.264609733714	Nominal Dec [deg]
roll_nom	67.93557172733	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16076.559093595	Sum of GTIs [s]
livetime	15866.507013646	Livetime [s]
ontime0	16079.700123787	Sum of GTIs [s]
ontime1	16076.559063435	Sum of GTIs [s]
ontime2	16070.277103066	Sum of GTIs [s]
ontime3	16076.559093595	Sum of GTIs [s]
l2events	41735	Number of level 2 events



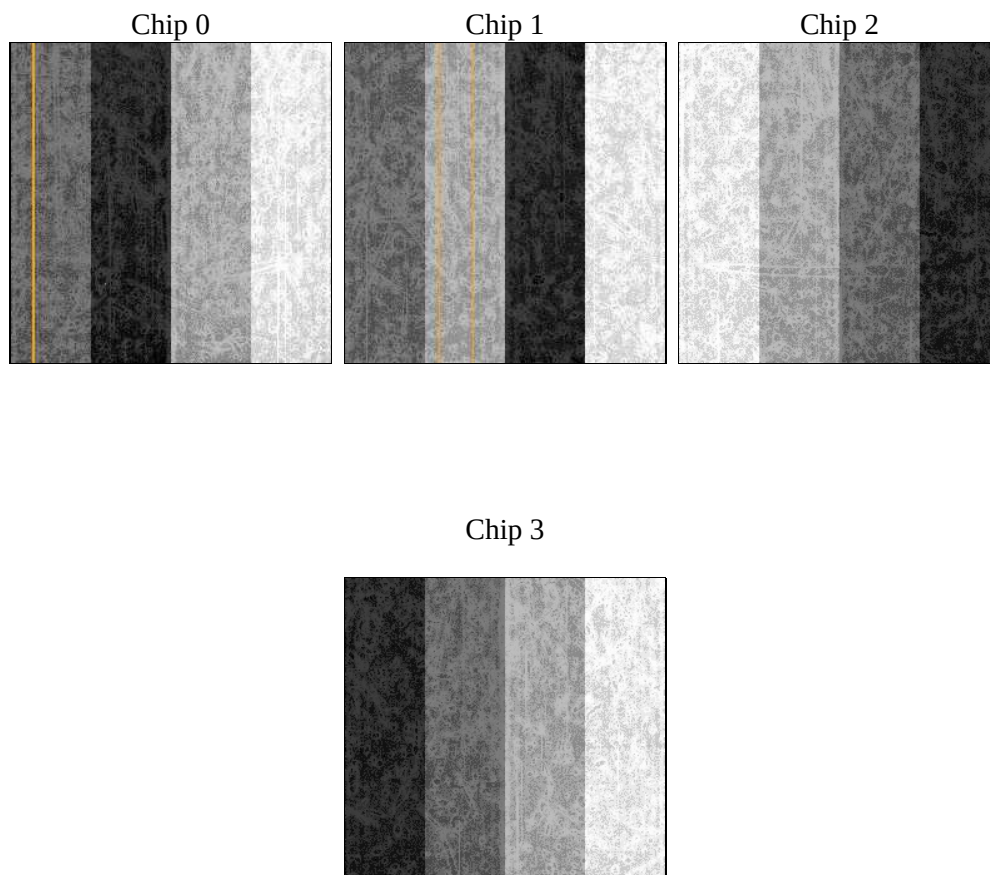
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	16076.559093595	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	16079.700123787	Sum of GTIs [s]
date	2016-08-29T15:33:22	Date and time of file creation	ontime1	16076.559063435	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	16070.277103066	Sum of GTIs [s]
			ontime3	16076.559093595	Sum of GTIs [s]
			l1events	412813	Number of level 1 events

2.1.4 Events

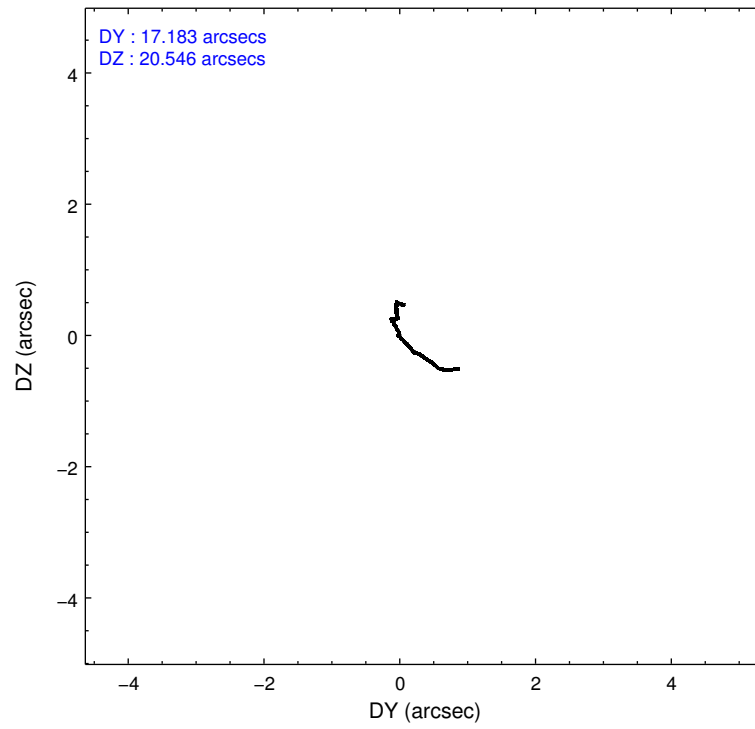
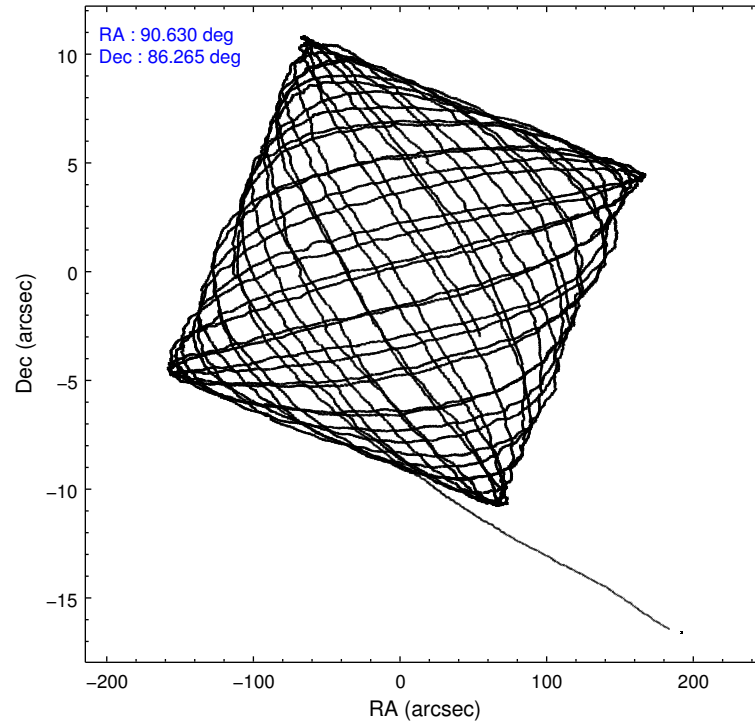
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	98707	100063	106891	107152
rejected events	86513	86731	94933	94374
rejected %	87%	86%	88%	88%

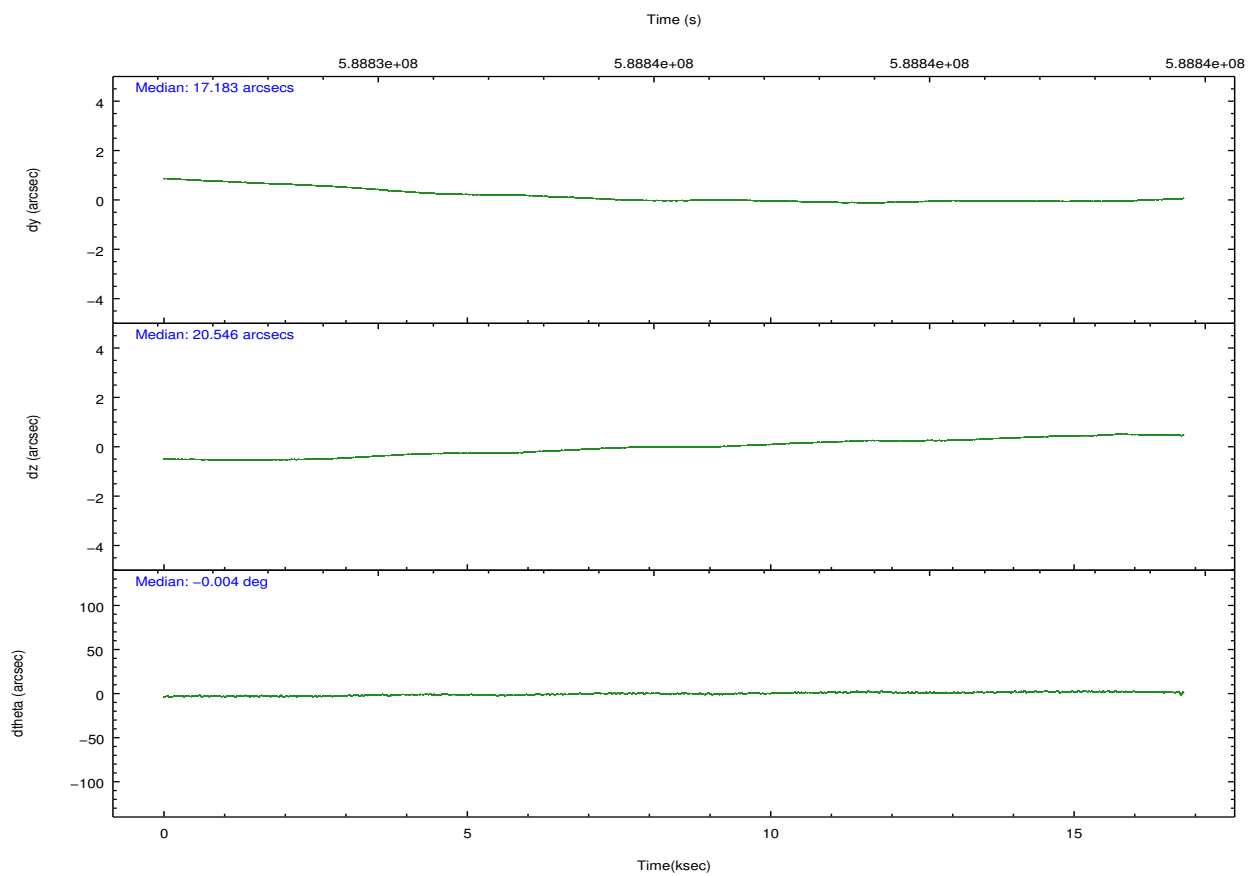
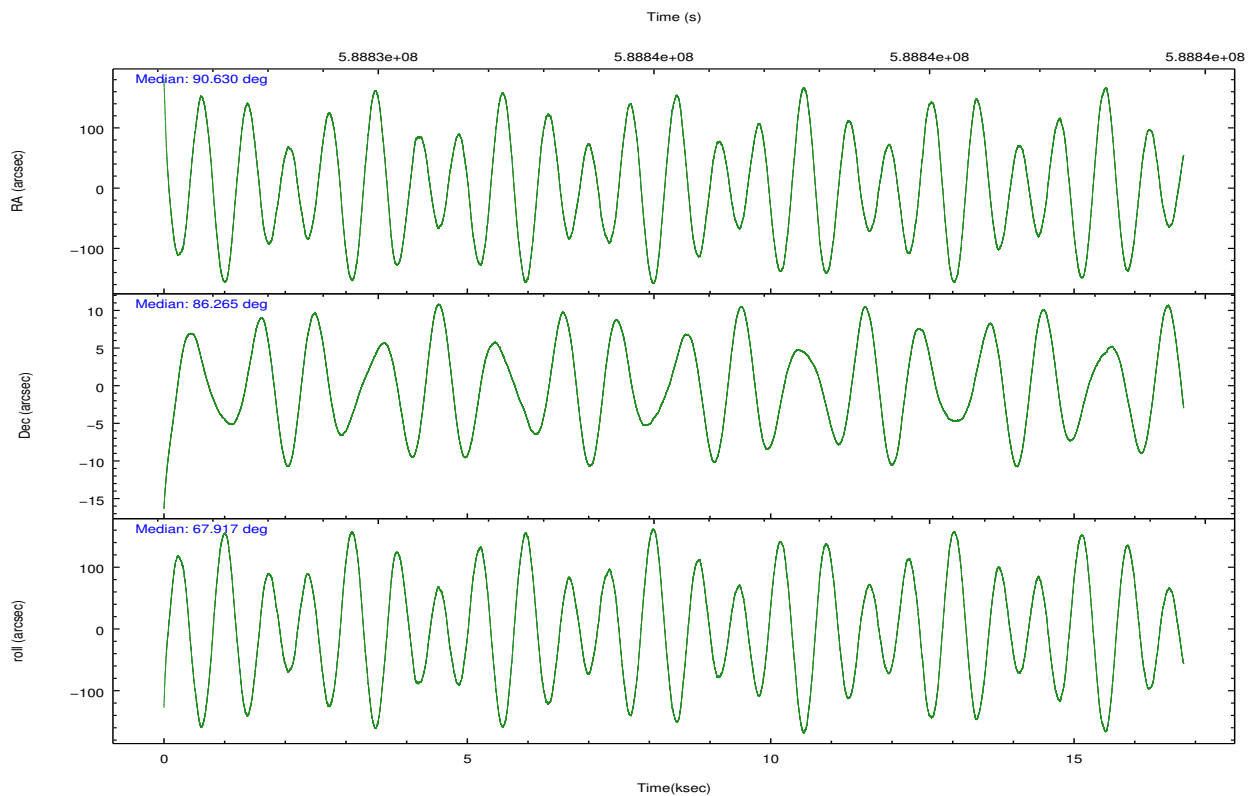
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4206	4566	4280	5166
	4%	4%	4%	4%
grade 1 events	60	58	57	92
	0%	0%	0%	0%
grade 2 events	3103	3313	2872	2764
	3%	3%	2%	2%
grade 3 events	1296	1288	1162	1199
	1%	1%	1%	1%
grade 4 events	1177	1283	1216	1234
	1%	1%	1%	1%
grade 5 events	4623	5008	4431	5413
	4%	5%	4%	5%
grade 6 events	2415	2885	2430	2416
	2%	2%	2%	2%
grade 7 events	81827	81662	90443	88868
	82%	81%	84%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	90.690634	90.63093848453155	Subarray requested	NONE	NONE
[deg] Pointing Dec	86.237215	86.26460973371432	Alternating exposures requested	N	N
[deg] Pointing Roll	67.667276	67.9355717273295	[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	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	588827750.184000	588826019.95353			
Observation start date	2016-08-29T03:14:42	2016-08-29T02:46:59			
[s] Observation end time (MET)	588843750.184000	588844345.41708			
Observation end date	2016-08-29T07:41:22	2016-08-29T07:52:25			
Read mode	TIMED	TIMED			

2.3 Aspect



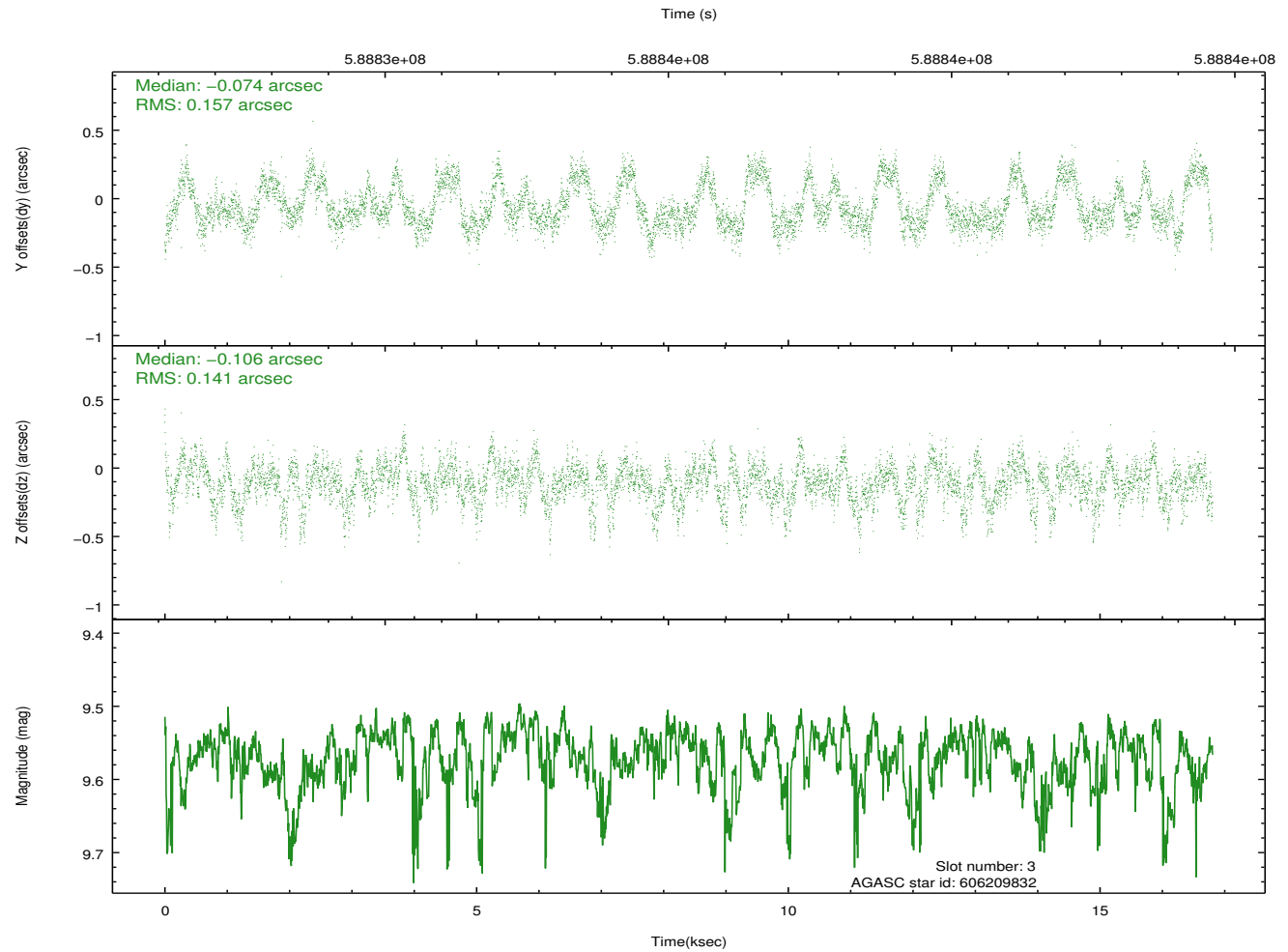
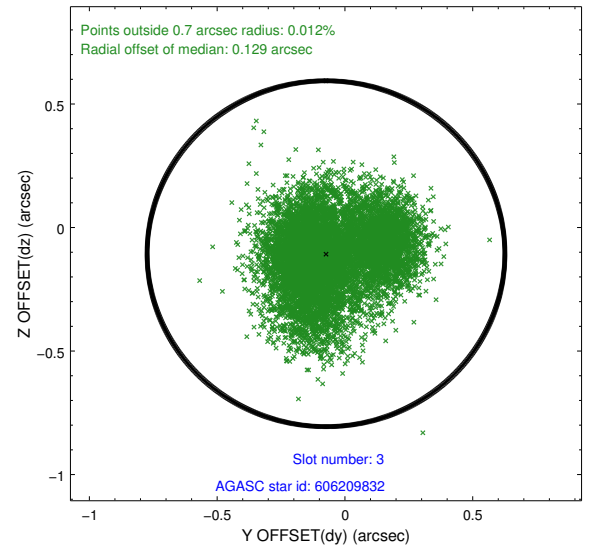
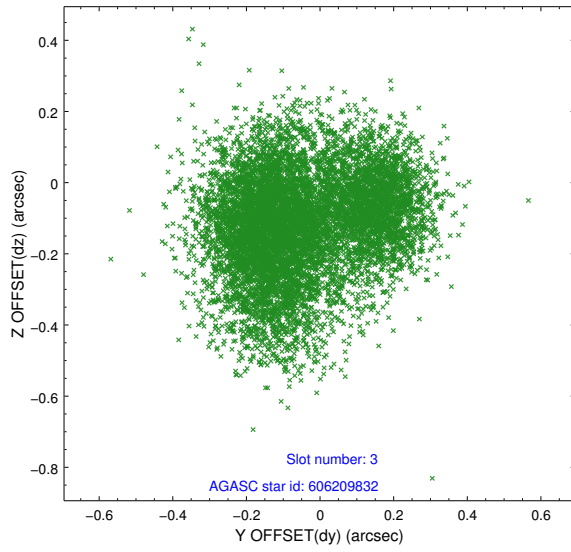


Slot Statistics

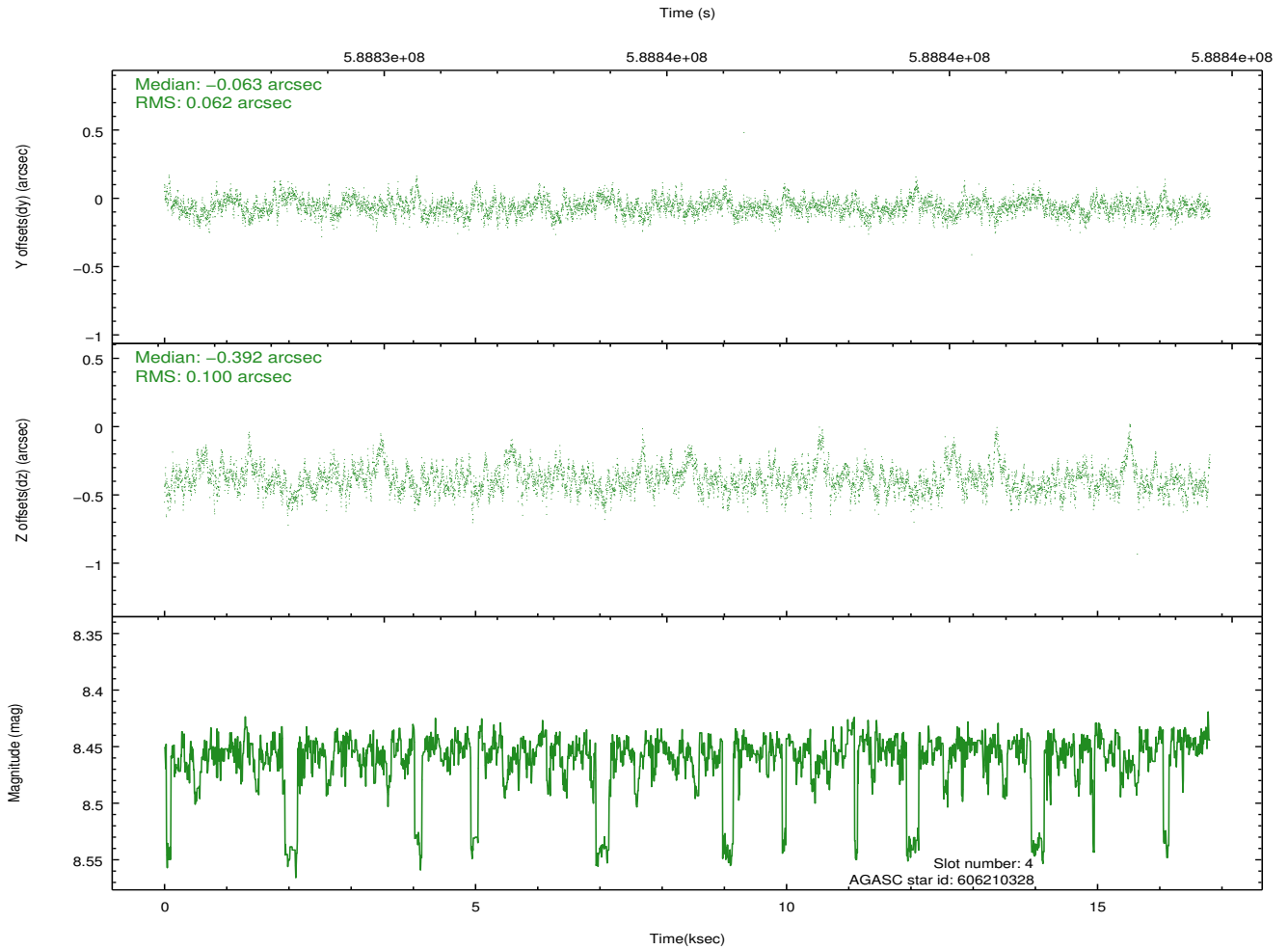
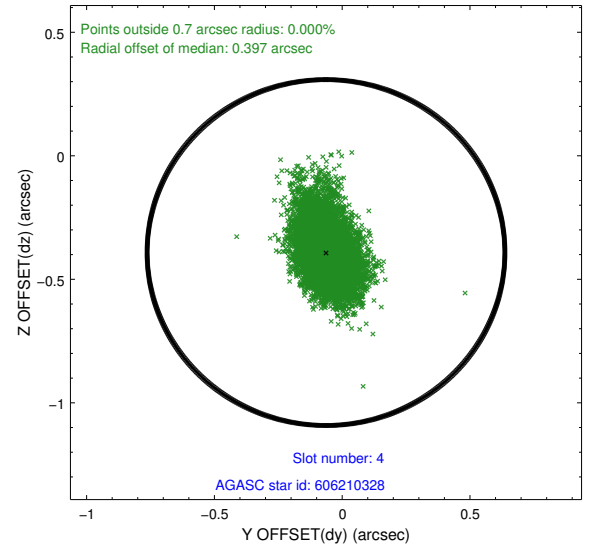
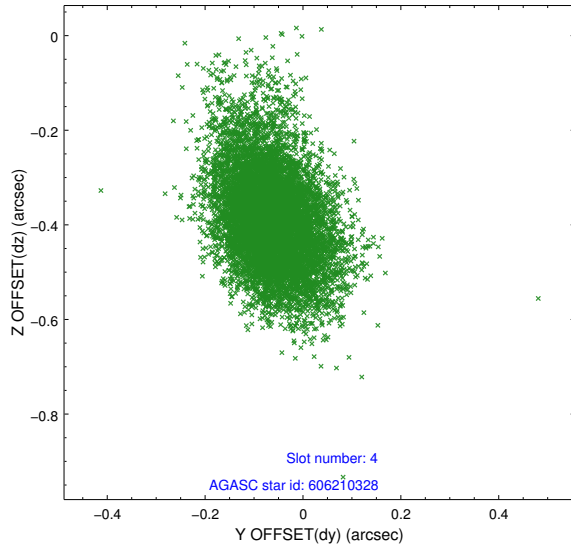
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	4100	0.051	-0.033	0.013	0.020	0.000000	0.000000	922.14	-844.26
1	FID		ACIS-I-5	7.11	4100	-0.330	0.017	0.011	0.016	0.000000	0.000000	-1826.30	1053.03
2	FID		ACIS-I-6	7.13	4100	0.189	0.087	0.014	0.020	0.000000	0.000000	387.43	1697.99
3	GUIDE	used	606209832	9.57	8184	-0.074	-0.106	0.232	0.350	88.780907	86.363434	261.36	578.46
4	GUIDE	used	606210328	8.46	8197	-0.063	-0.392	0.118	0.213	81.057977	86.289713	-501.14	2208.27
5	GUIDE	used	606339920	8.41	8195	-0.062	0.144	0.108	0.178	97.032465	86.416196	1210.88	-1042.01
6	GUIDE	used	606340040	8.99	8195	-0.191	-0.181	0.160	0.252	90.052727	86.391581	459.96	344.80
7	GUIDE	used	605816192	8.81	8189	0.359	0.528	0.127	0.205	93.284379	85.608673	-1807.60	-1514.46

2.4 Star Slots

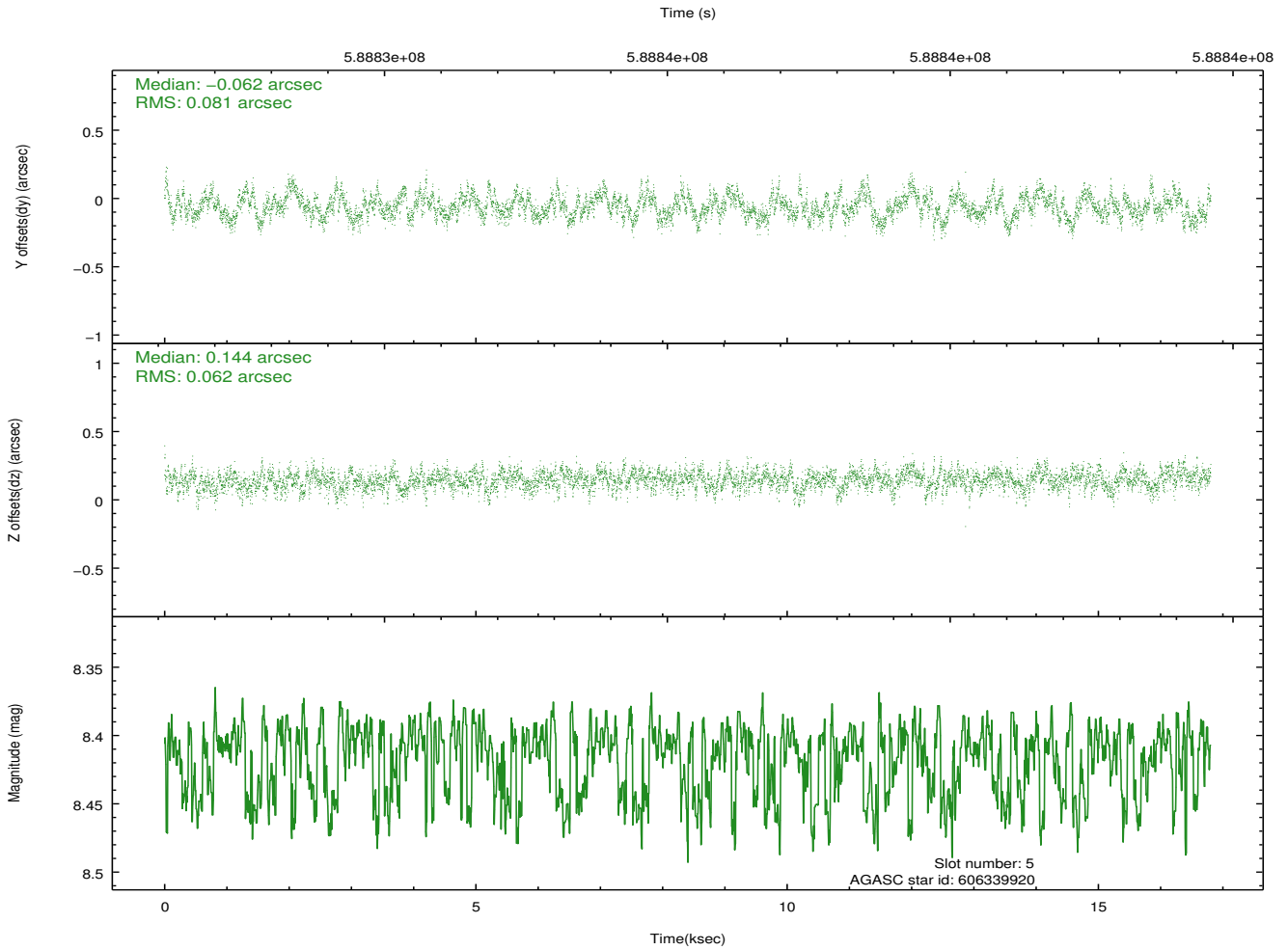
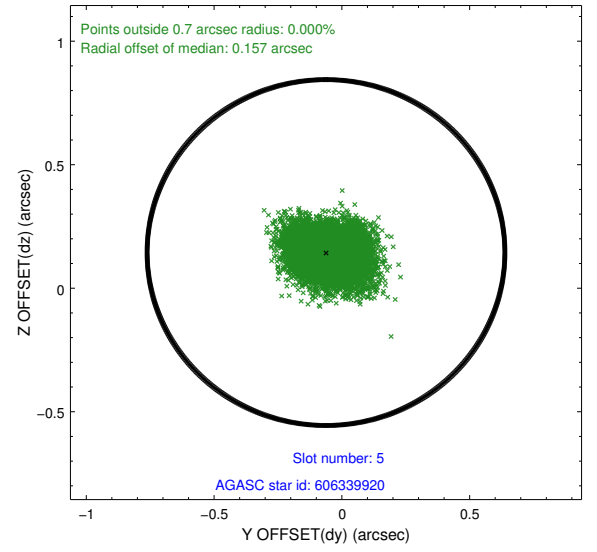
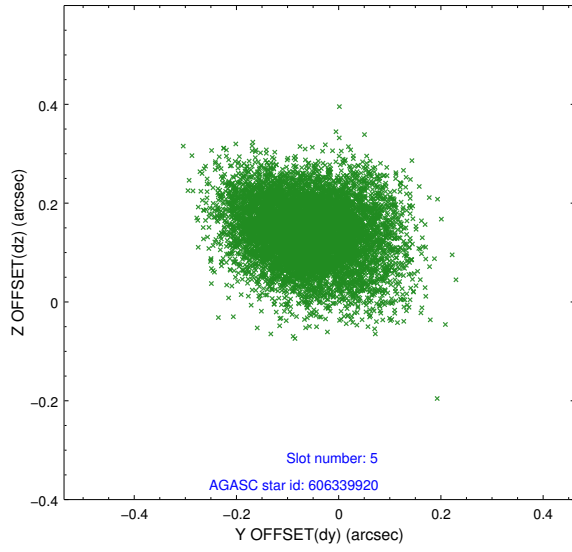
2.4.1 Slot 3



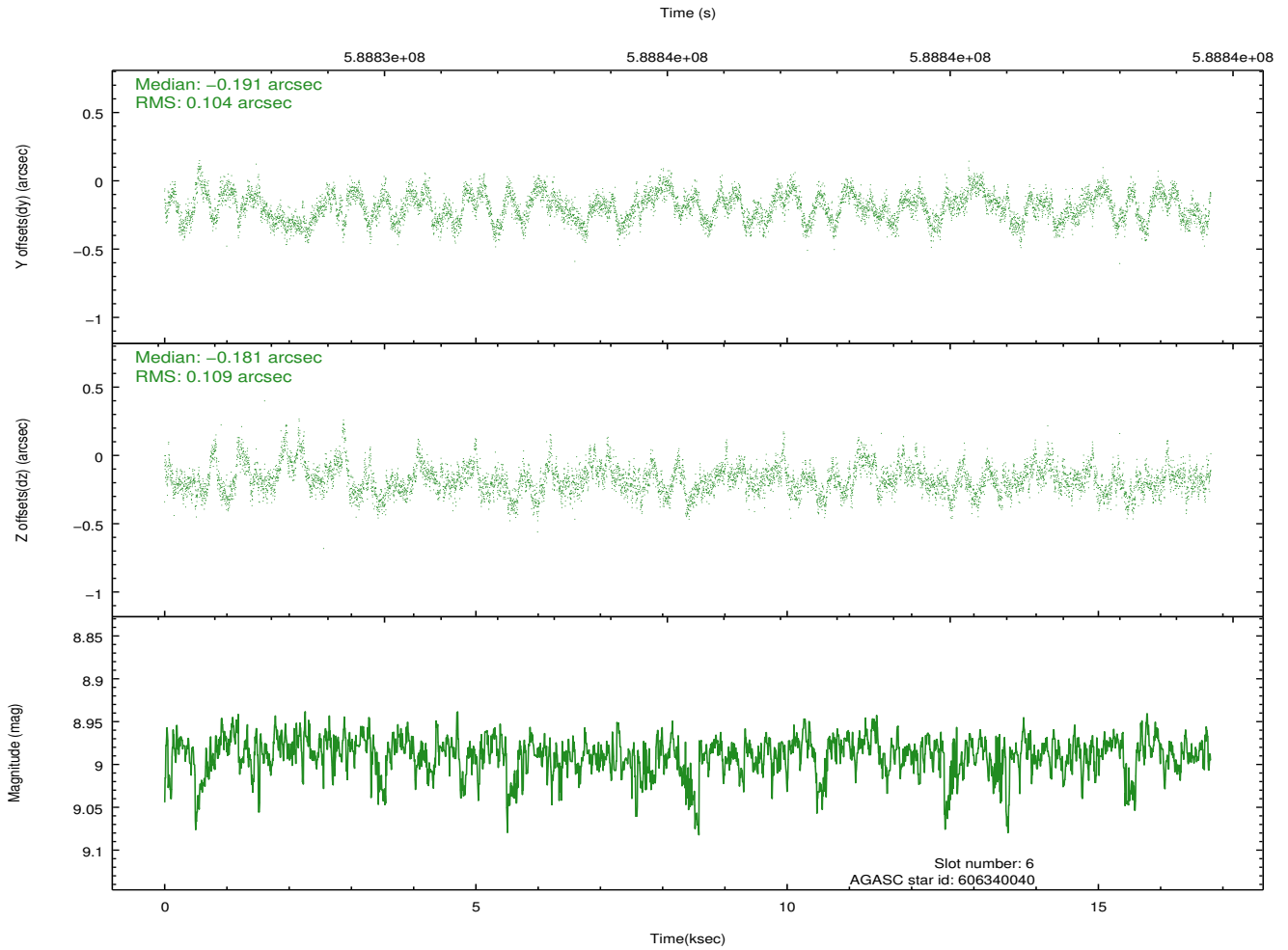
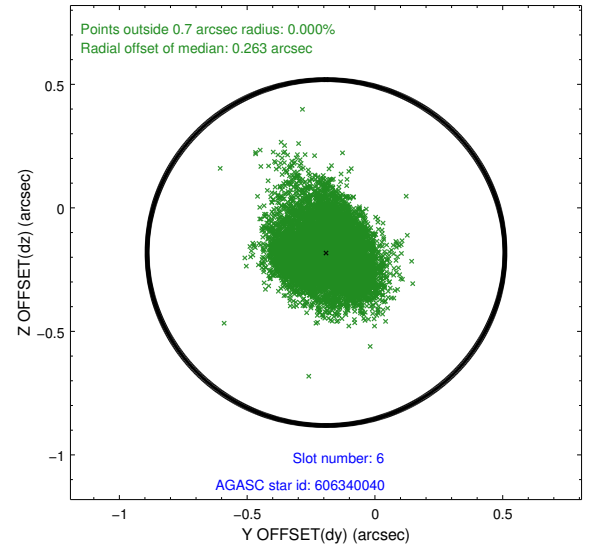
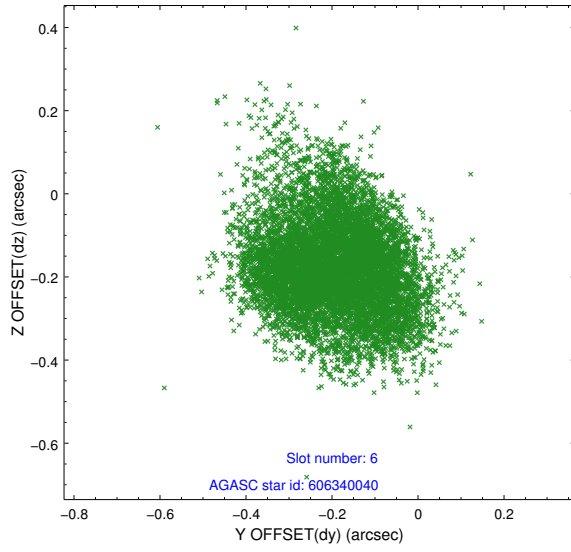
2.4.2 Slot 4



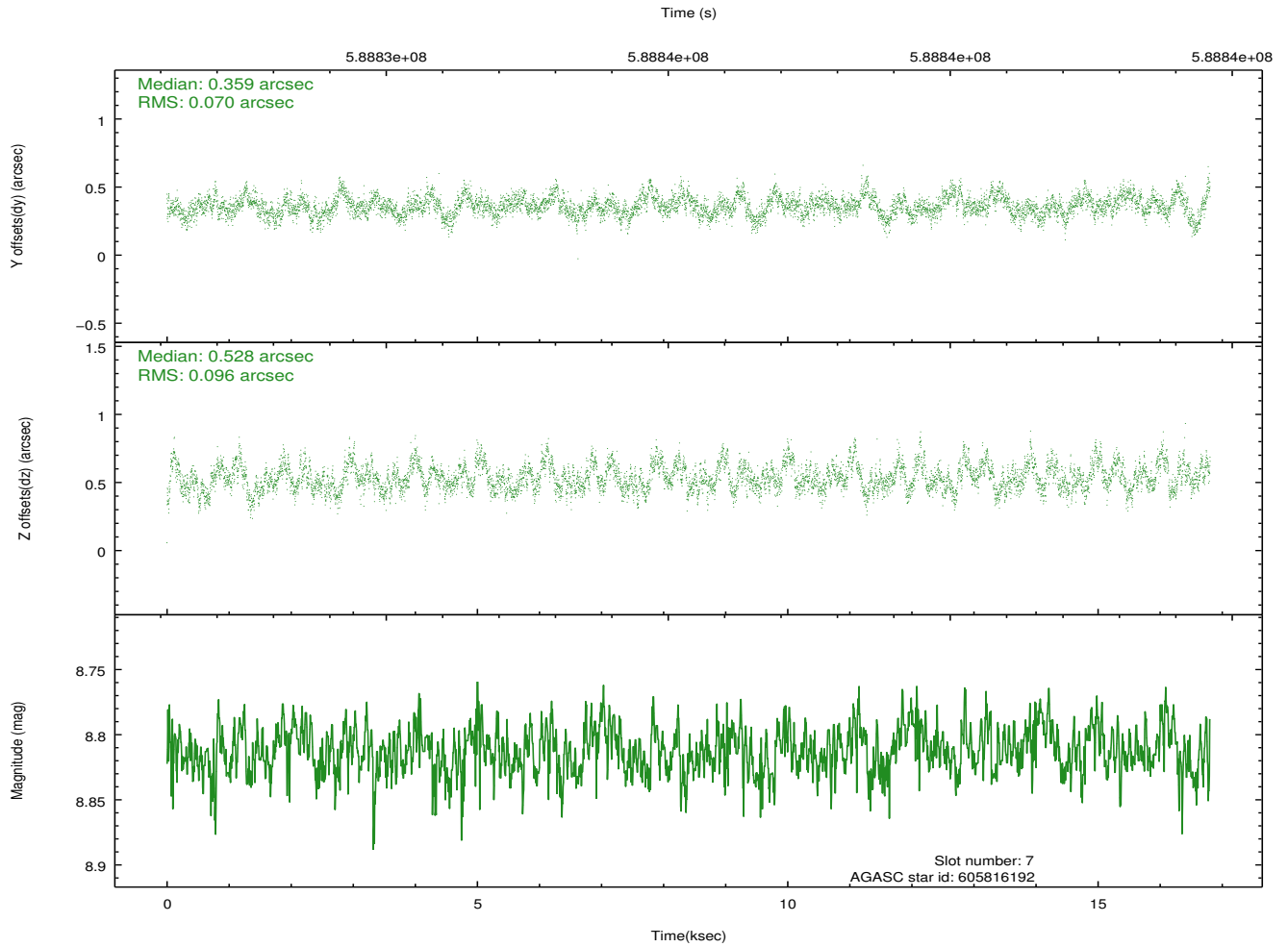
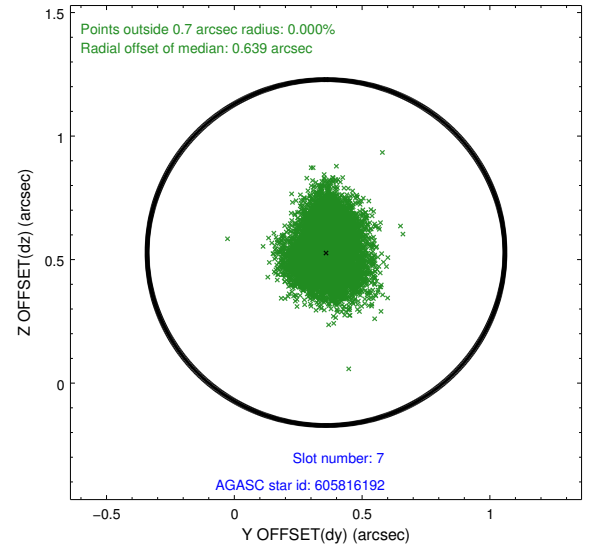
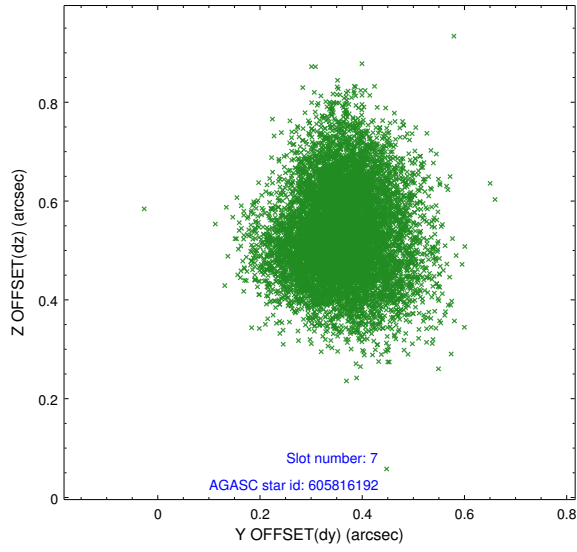
2.4.3 Slot 5



2.4.4 Slot 6

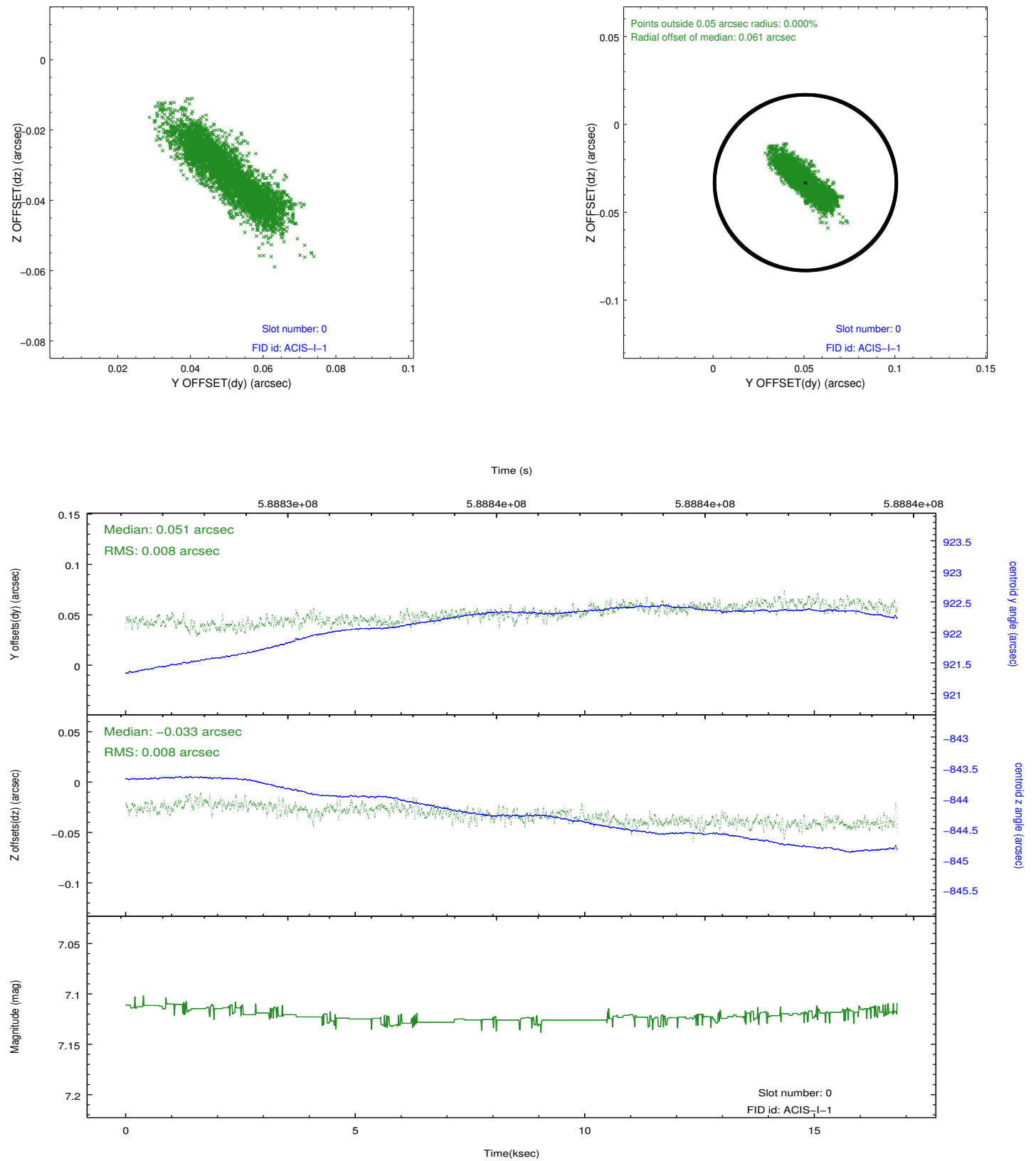


2.4.5 Slot 7

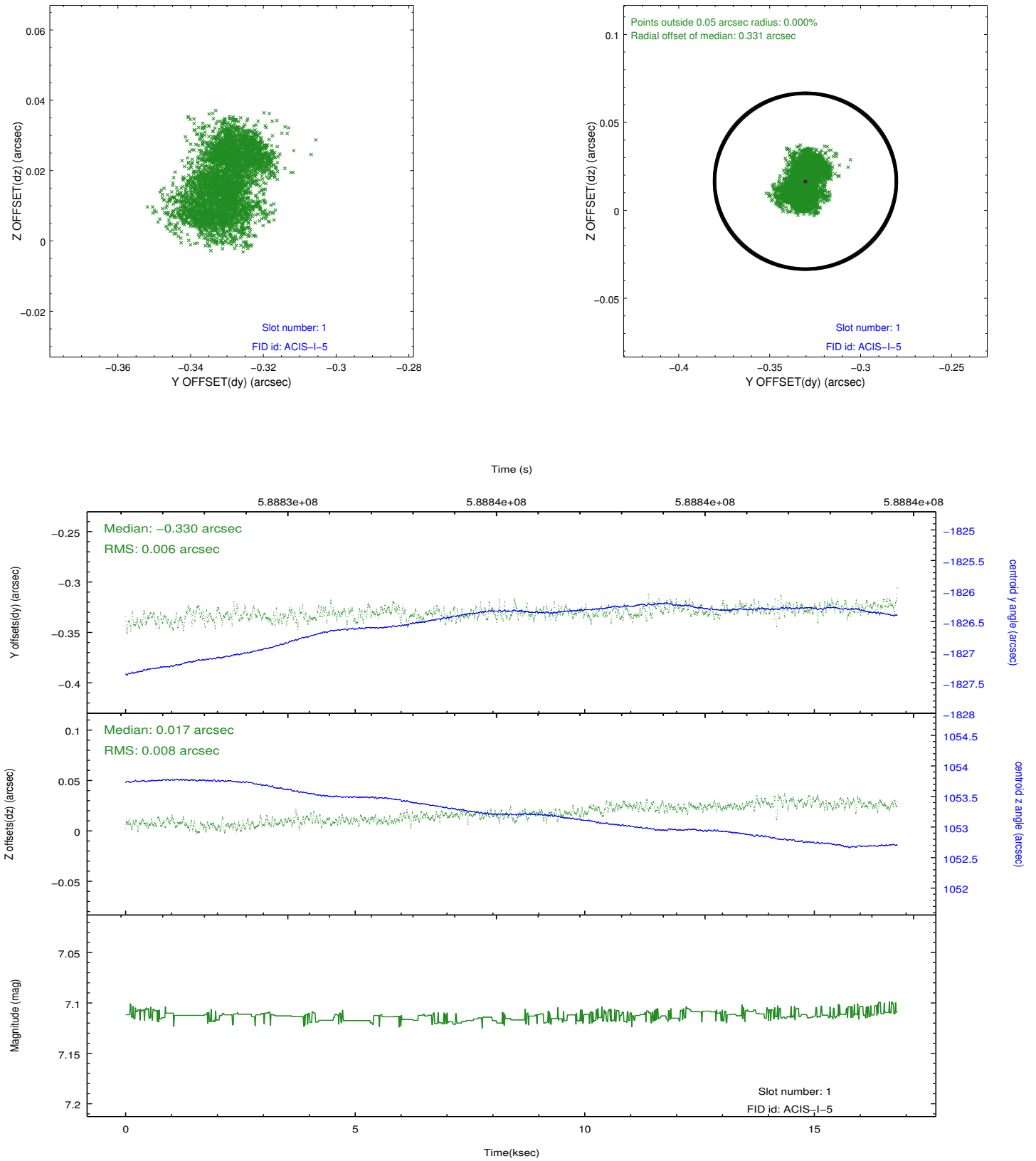


2.5 FID Slots

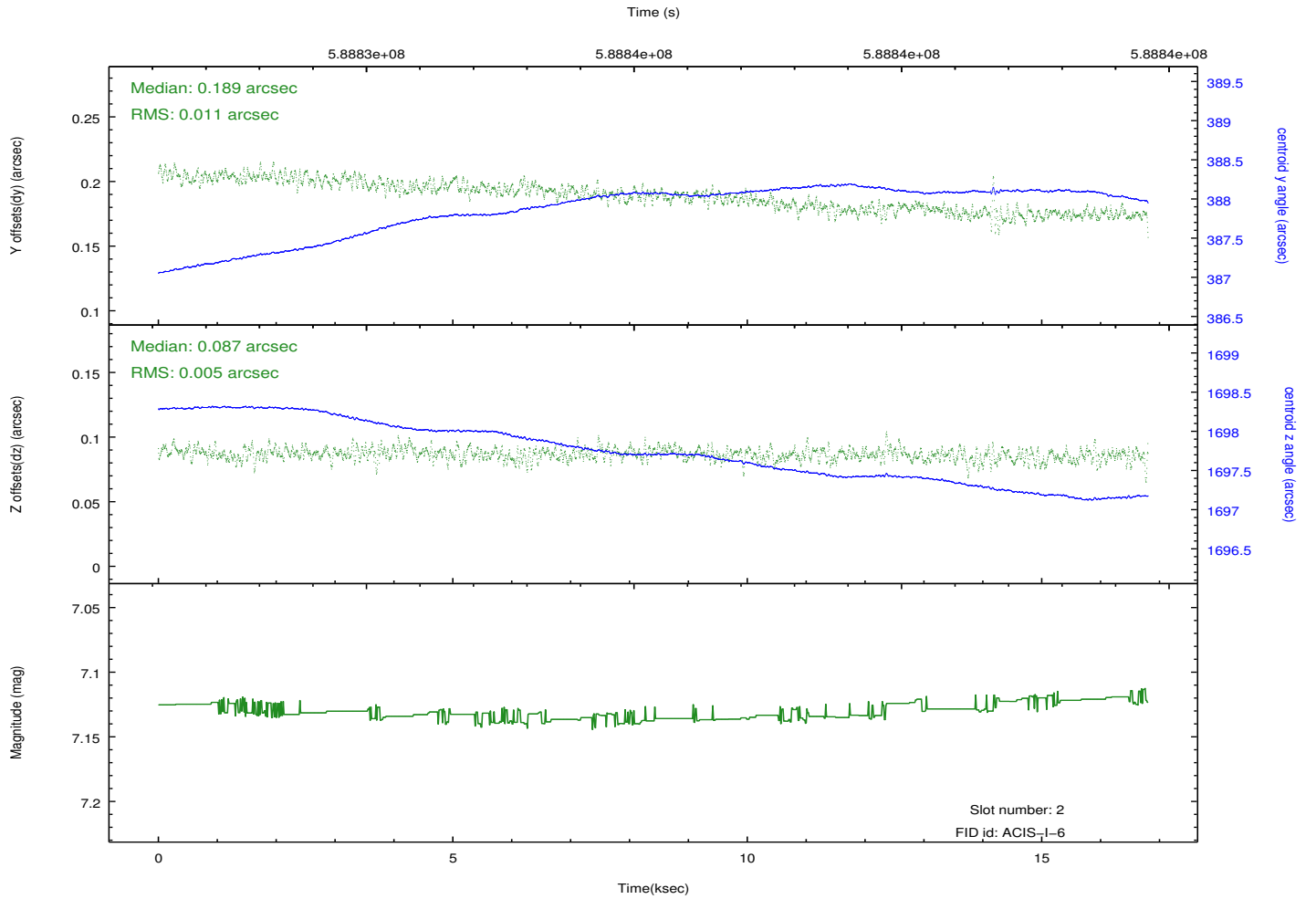
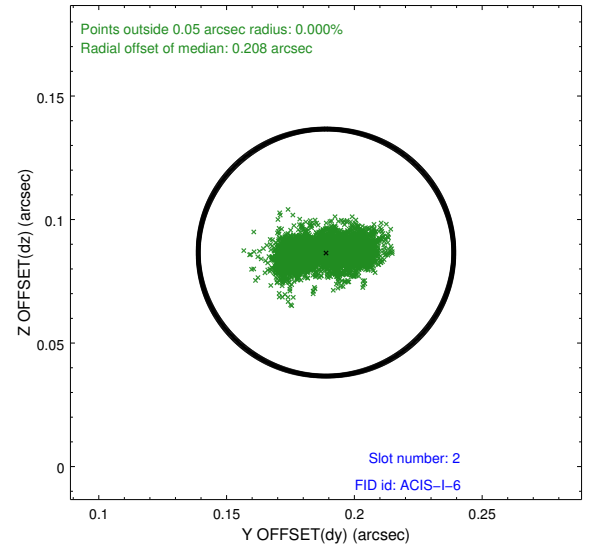
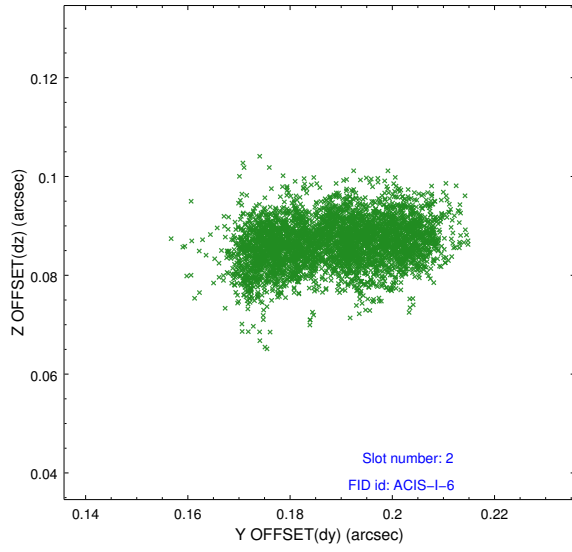
2.5.1 Slot 0



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)	2016.08.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.076559093595

A.2 Comments