

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18185 - L2 Version 2
Chandra X-Ray Center

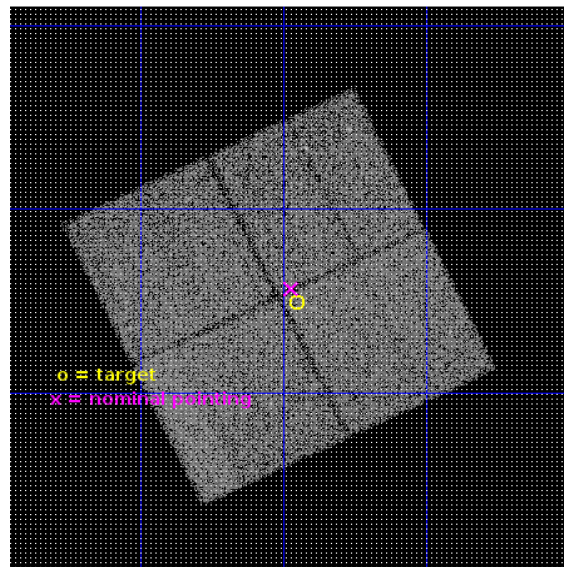
L2 Processing Date : Jan 19 2017

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1 Front

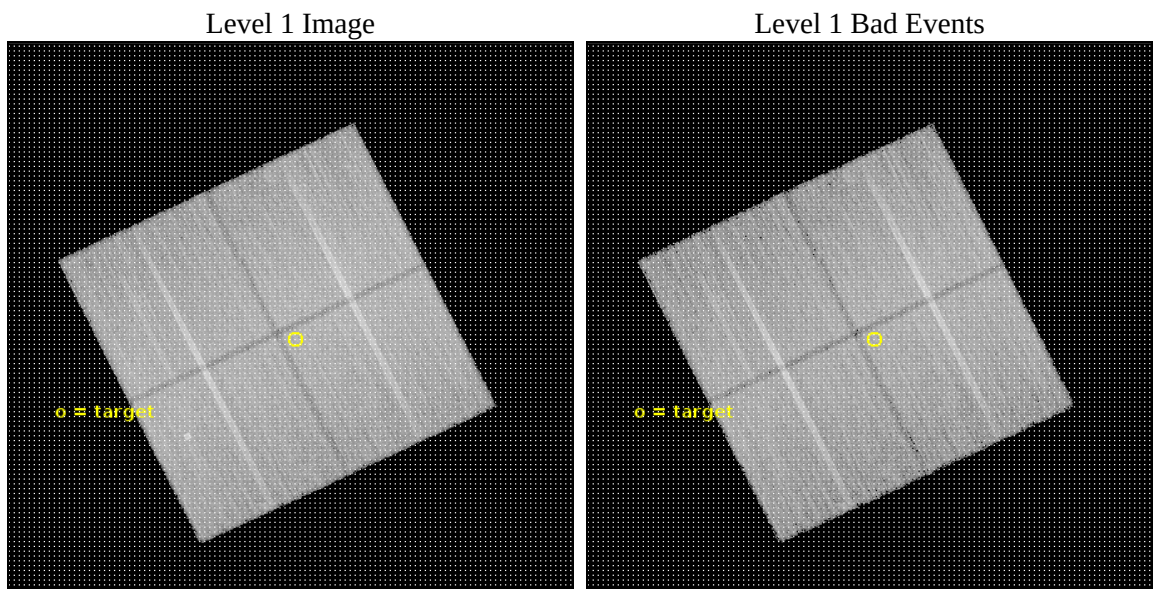
seq_num	703249	Sequence number
obs_id	18185	Observation id
title	QSOs at z=6: Black Hole Growth and Feedback in the Early Universe	
observer	Dr Roberto Gilli	Principal investigator
object	SDSSJ1030+0524	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.612917	Observer's specified target RA [deg]
dec_targ	5.415278	Observer's specified target Dec [deg]
ra_nom	157.61812342044	Nominal RA [deg]
dec_nom	5.4278282558324	Nominal Dec [deg]
roll_nom	64.20820154093	Nominal Roll [deg]
revision	2	Processing version of data
ontime	46943.259291053	Sum of GTIs [s]
livetime	46329.91104929	Livetime [s]
ontime0	46940.118310571	Sum of GTIs [s]
ontime1	46943.259290934	Sum of GTIs [s]
ontime2	46940.118300676	Sum of GTIs [s]
ontime3	46943.259291053	Sum of GTIs [s]
l2events	122626	Number of level 2 events



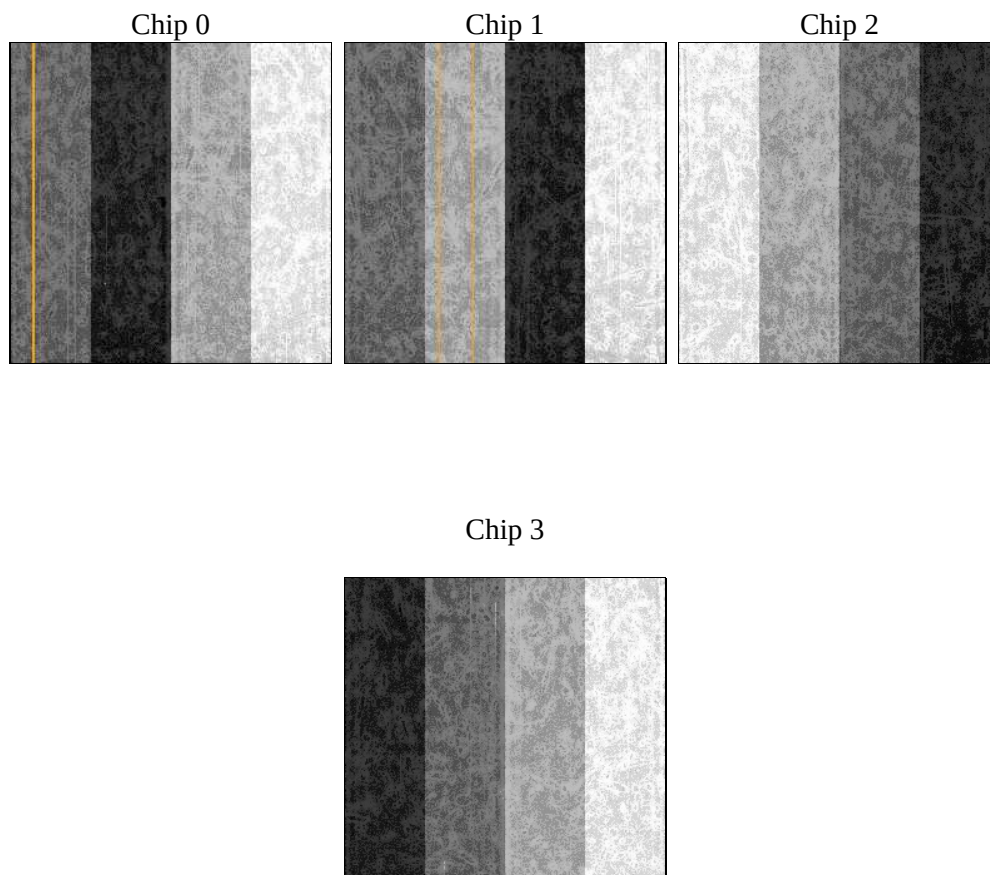
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46863.925000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	46943.259291053	Sum of GTIs [s]
caldbver	4.7.3	 	ontime0	46940.118310571	Sum of GTIs [s]
date	2017-01-19T18:10:14	Date and time of file creation	ontime1	46943.259290934	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	46940.118300676	Sum of GTIs [s]
			ontime3	46943.259291053	Sum of GTIs [s]
			l1events	1273926	Number of level 1 events

2.1.4 Events

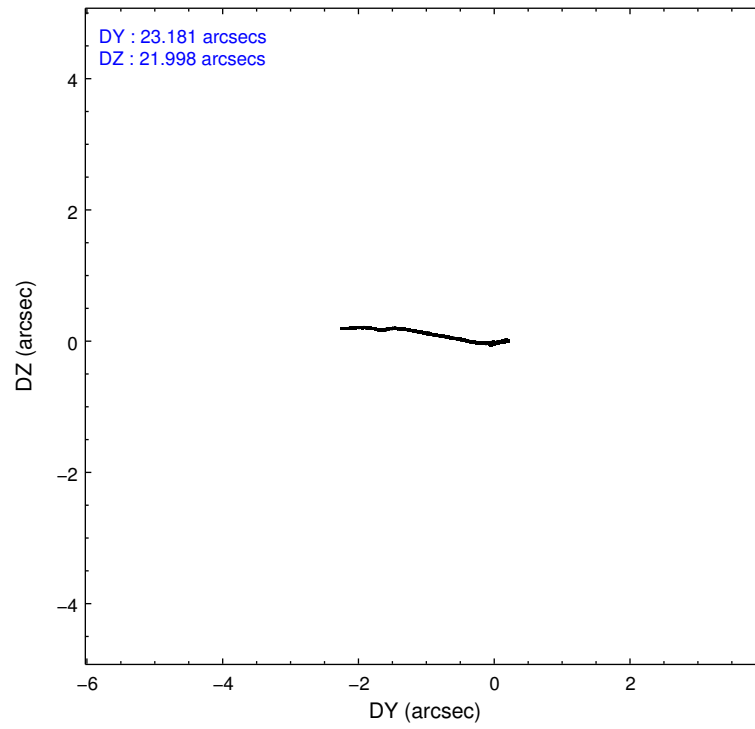
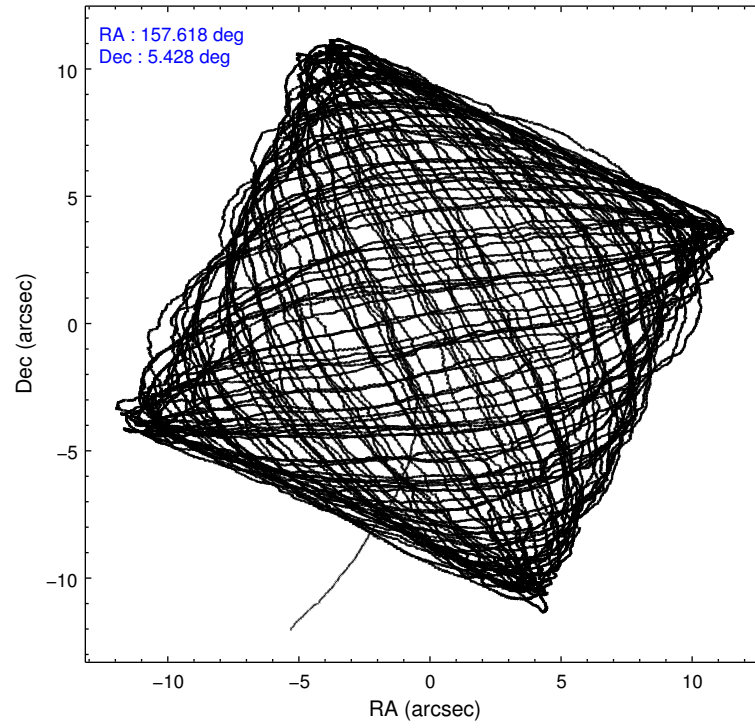
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	306361	308333	336946	322286
rejected events	269507	266710	301145	287613
rejected %	87%	86%	89%	89%

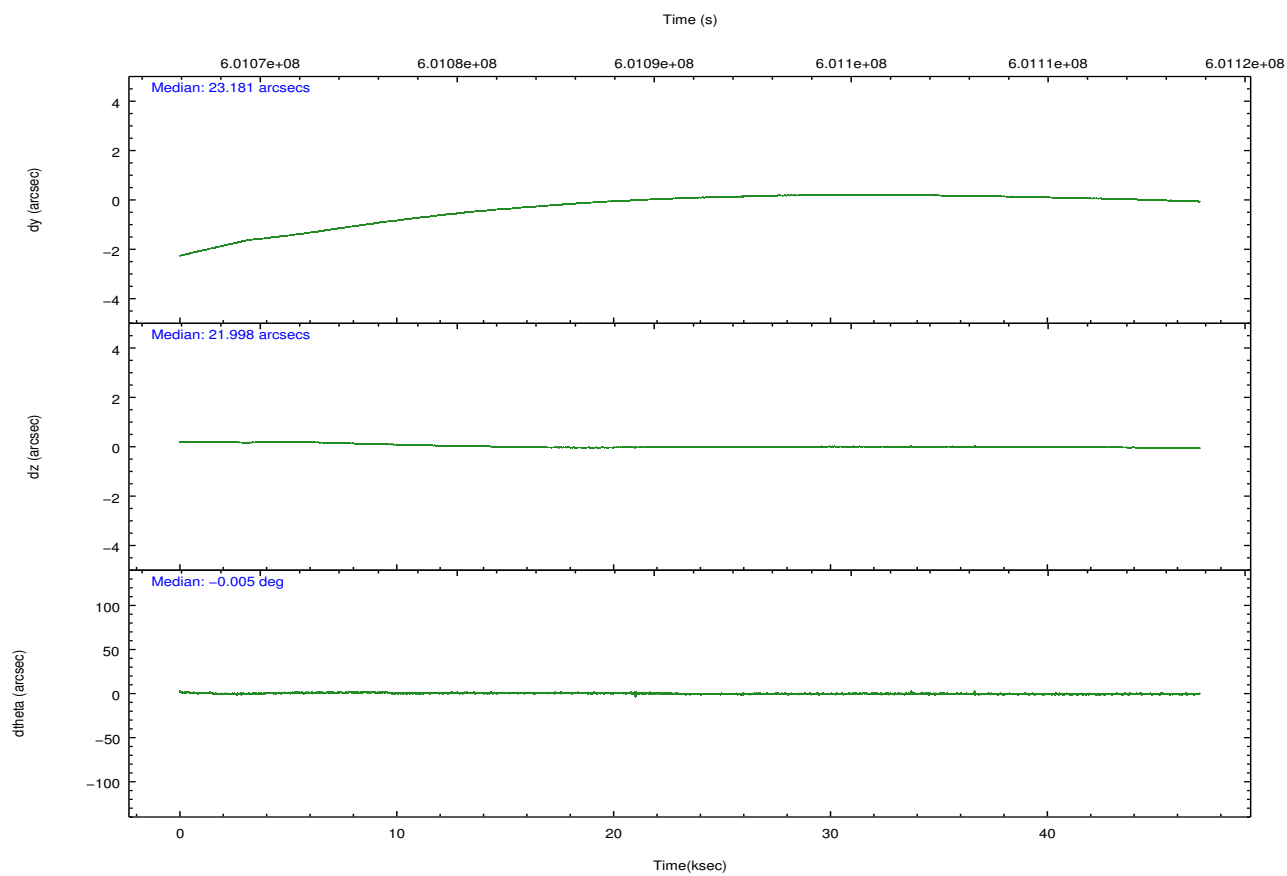
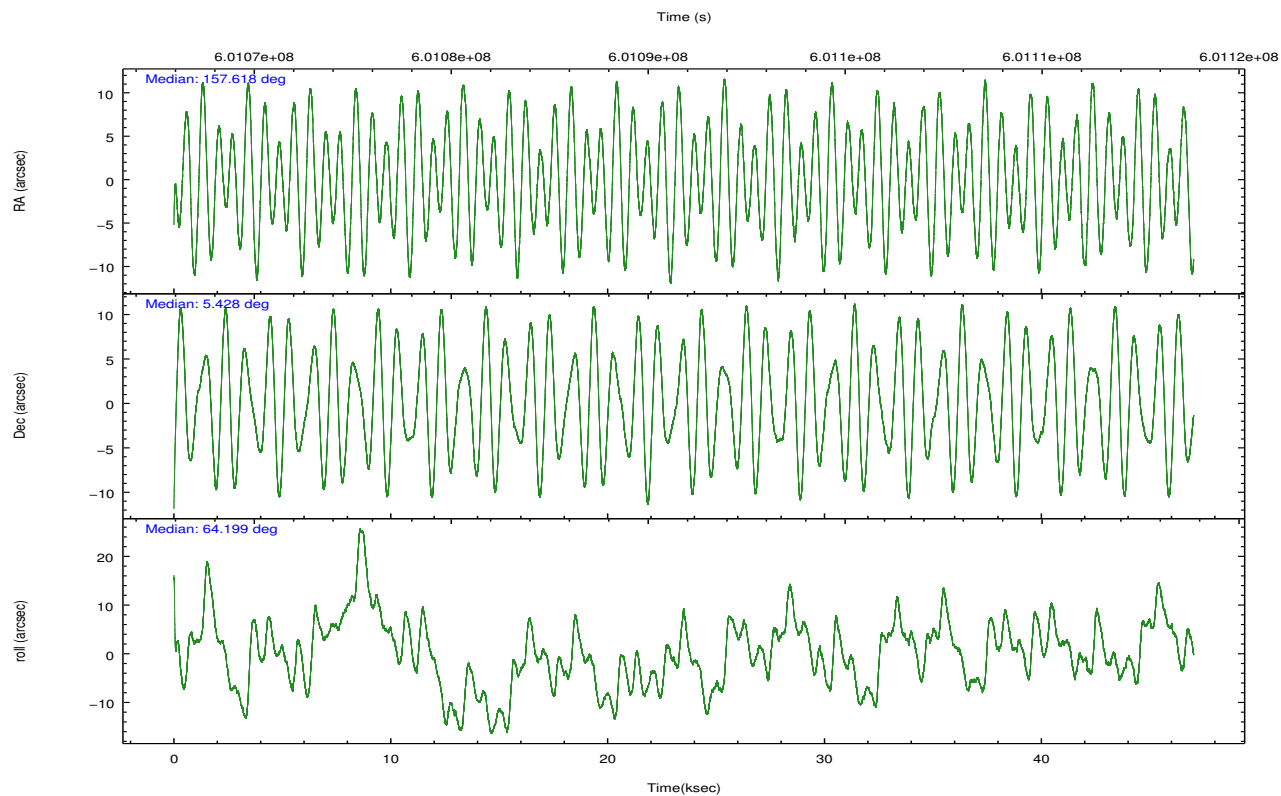
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12664	15143	12597	12057
	4%	4%	3%	3%
grade 1 events	192	216	195	215
	0%	0%	0%	0%
grade 2 events	9216	9762	8933	7733
	3%	3%	2%	2%
grade 3 events	3902	3883	3649	3671
	1%	1%	1%	1%
grade 4 events	3552	3855	3712	3728
	1%	1%	1%	1%
grade 5 events	13930	15053	12943	15934
	4%	4%	3%	4%
grade 6 events	7523	8985	6920	7486
	2%	2%	2%	2%
grade 7 events	255382	251436	287997	271462
	83%	81%	85%	84%

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	157.620269	157.618123420435	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.400311	5.427828255832414	Alternating exposures requested	N	N
[deg] Pointing Roll	63.999302	64.20820154093023	[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)	601068463.184000	601067231.78488			
Observation start date	2017-01-17T19:26:34	2017-01-17T19:07:11			
[s] Observation end time (MET)	601115326.184000	601115553.36268			
Observation end date	2017-01-18T08:27:37	2017-01-18T08:32:33			
Read mode	TIMED	TIMED			

2.3 Aspect



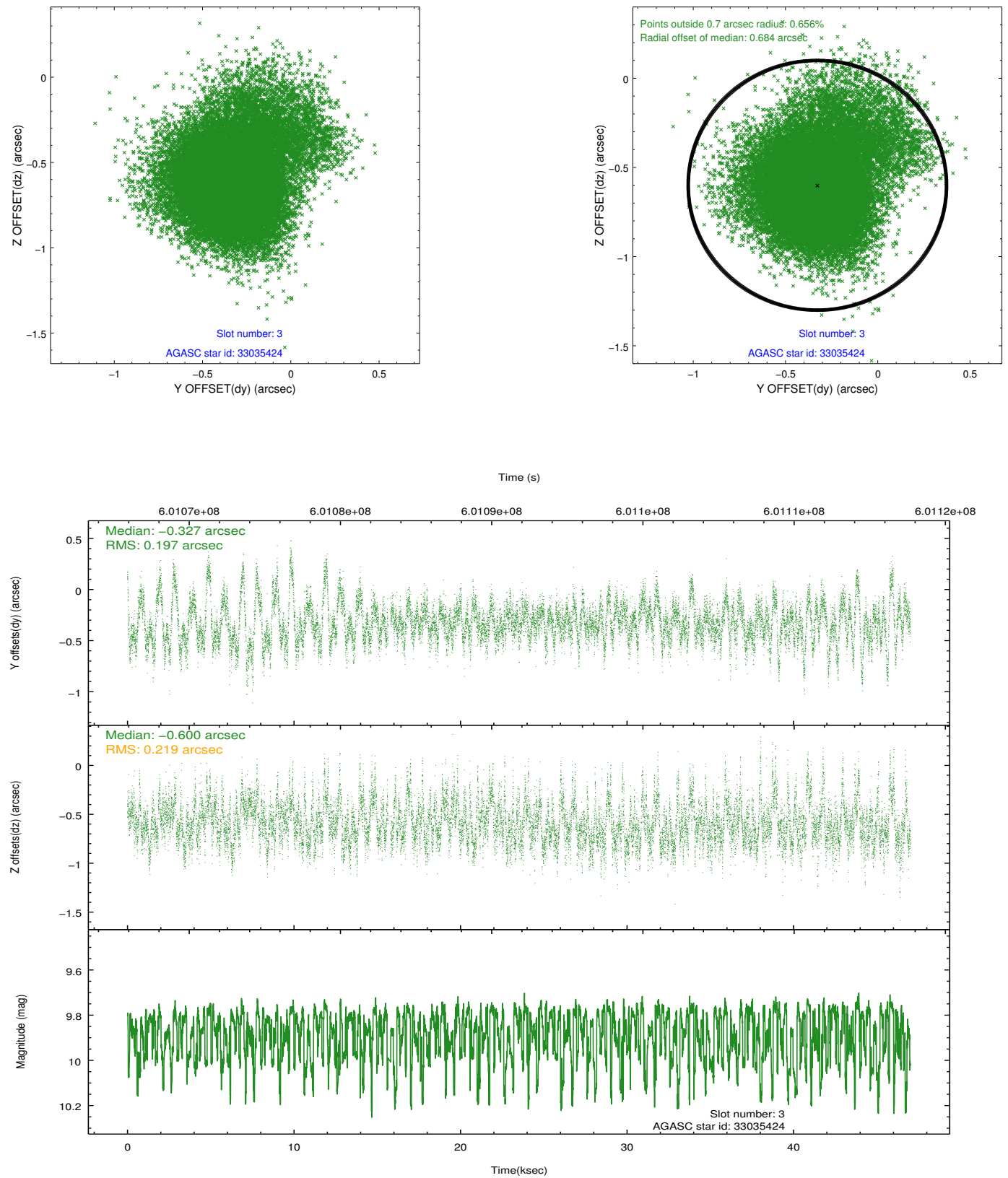


Slot Statistics

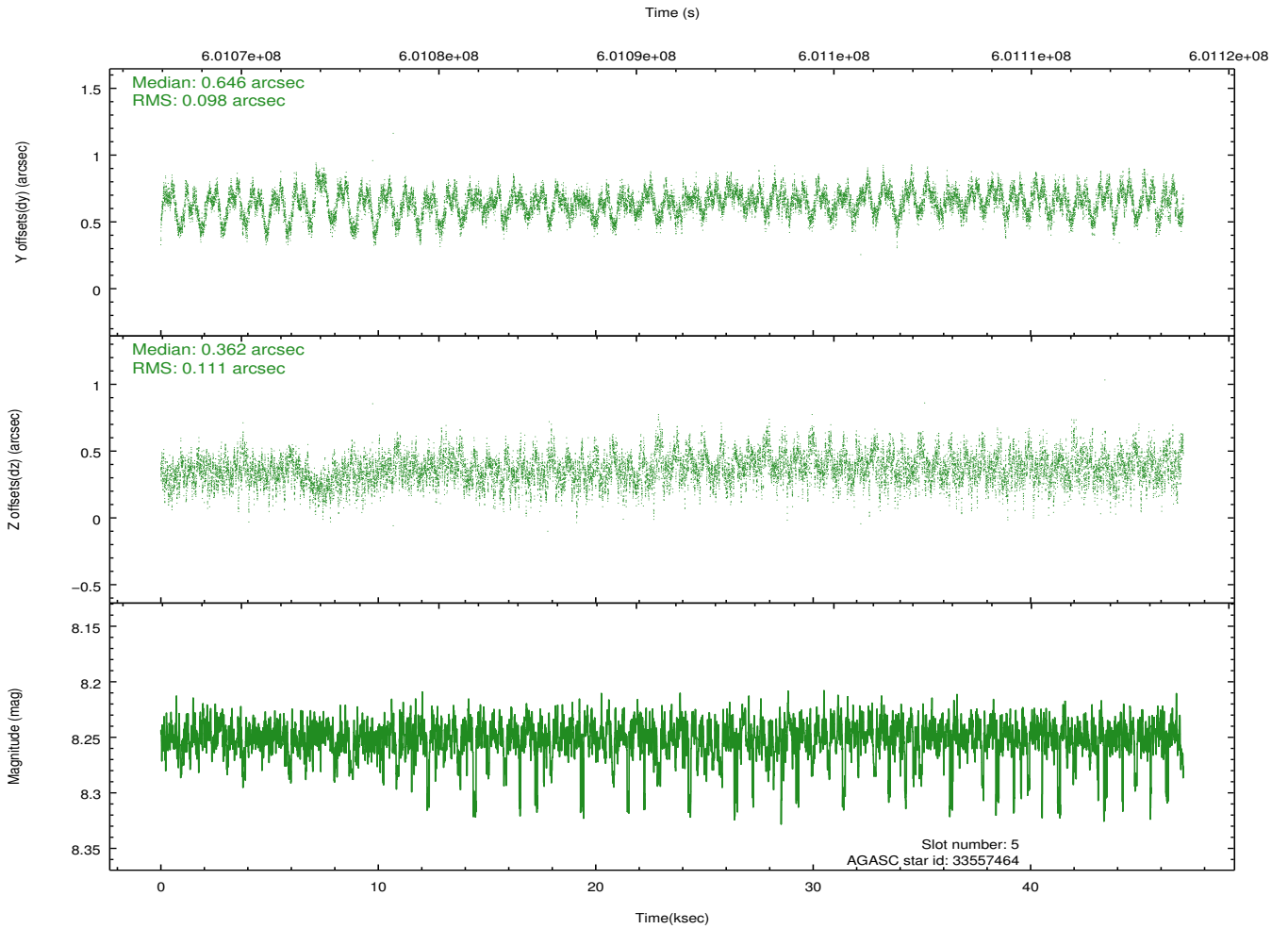
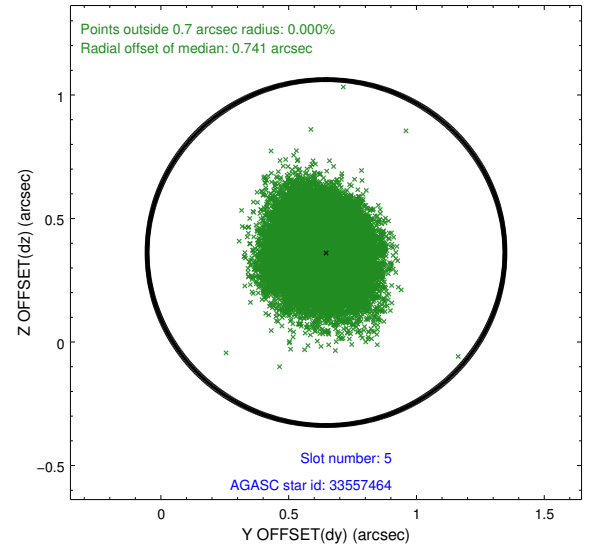
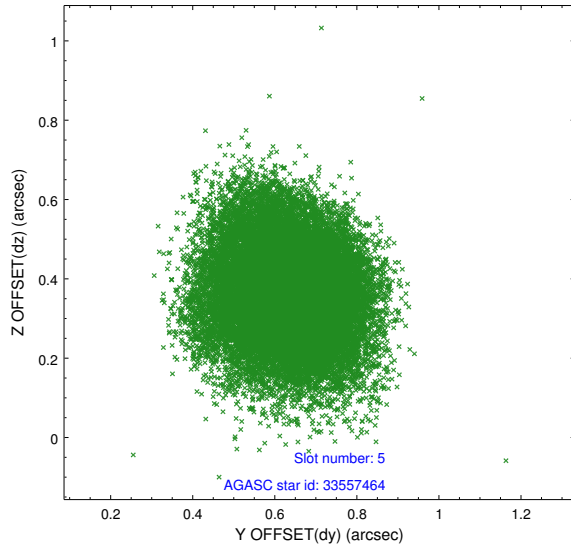
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	11470	0.087	-0.041	0.013	0.025	0.000000	0.000000	916.53	-845.80
1	FID		ACIS-I-5	7.08	11469	-0.412	0.034	0.011	0.026	0.000000	0.000000	-1832.19	1051.61
2	FID		ACIS-I-6	7.10	11468	0.232	0.078	0.012	0.026	0.000000	0.000000	382.08	1696.27
3	GUIDE	used	33035424	9.87	22721	-0.327	-0.600	0.304	0.536	157.358260	5.687209	516.66	1296.11
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	33557464	8.25	22924	0.646	0.362	0.159	0.256	157.961805	4.935650	-965.36	-1832.61
6	GUIDE	used	33949536	9.16	22910	0.027	1.047	0.197	0.324	158.026617	5.246866	142.94	-1550.13
7	GUIDE	used	33031184	7.01	22938	-0.354	-0.829	0.149	0.243	157.337986	6.256454	2326.89	2259.06

2.4 Star Slots

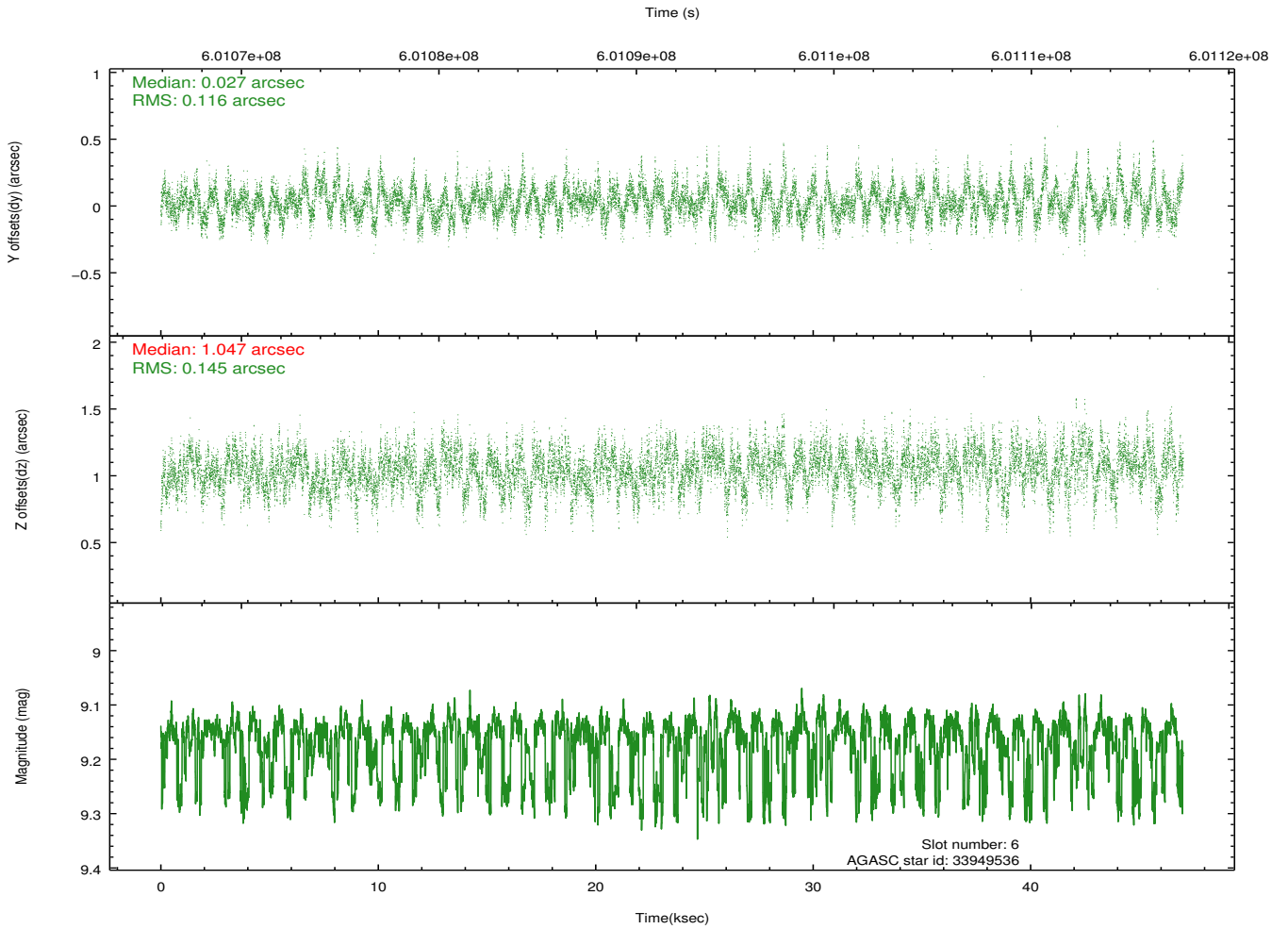
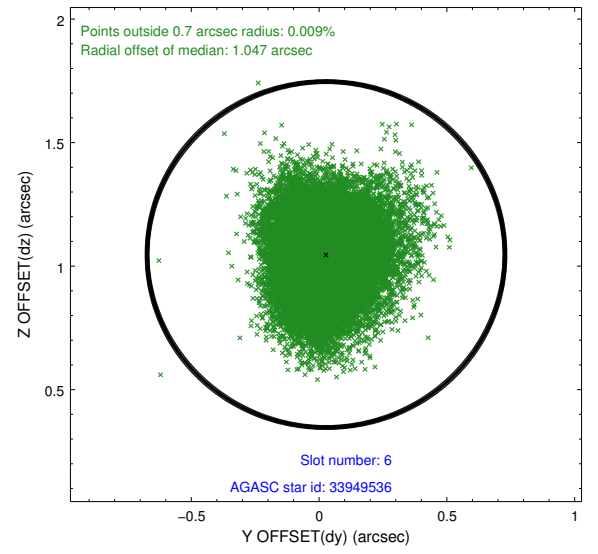
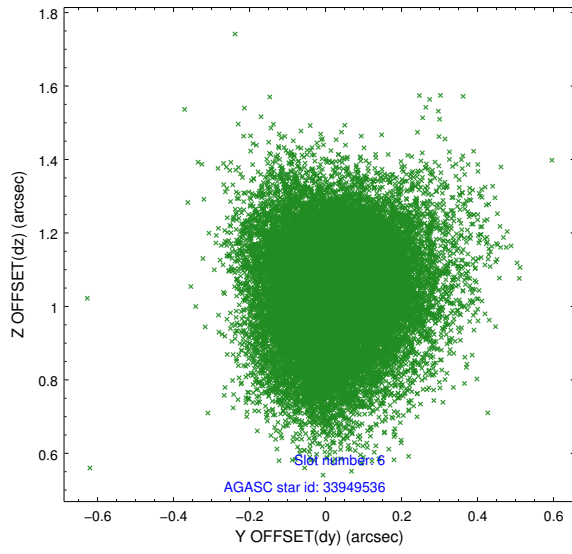
2.4.1 Slot 3



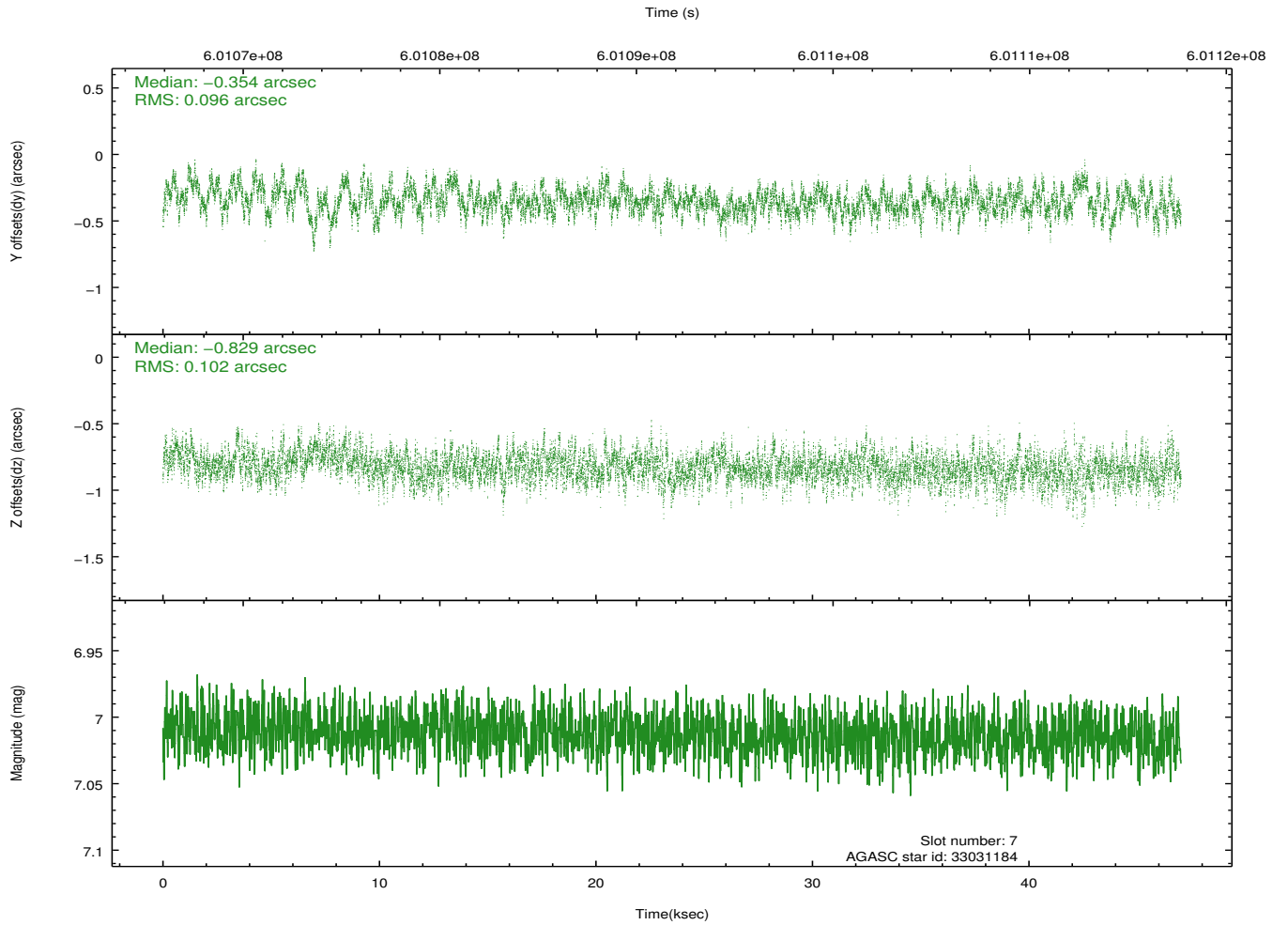
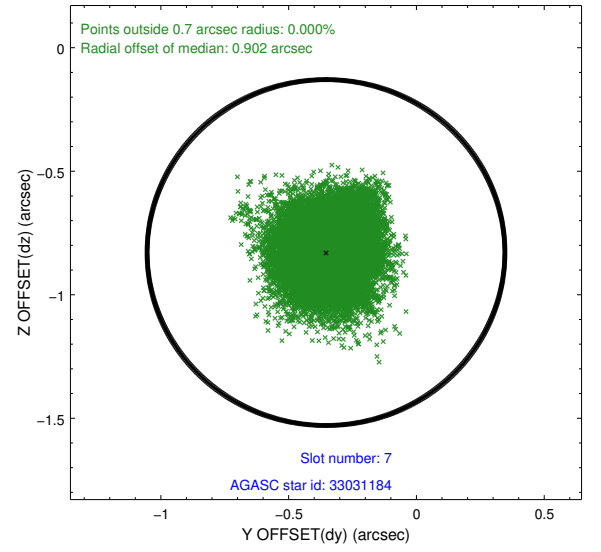
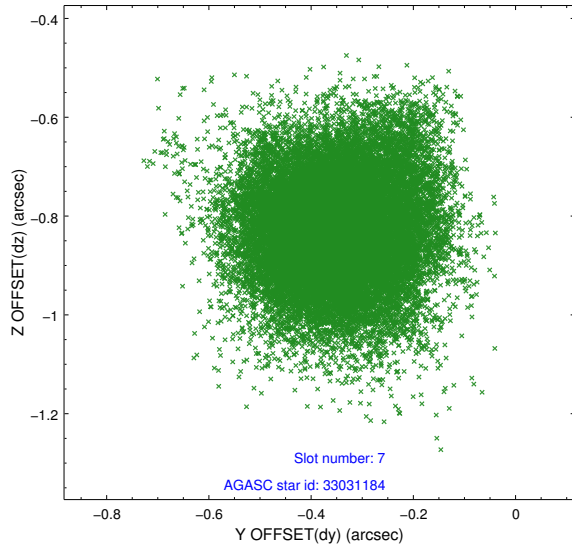
2.4.2 Slot 5



2.4.3 Slot 6

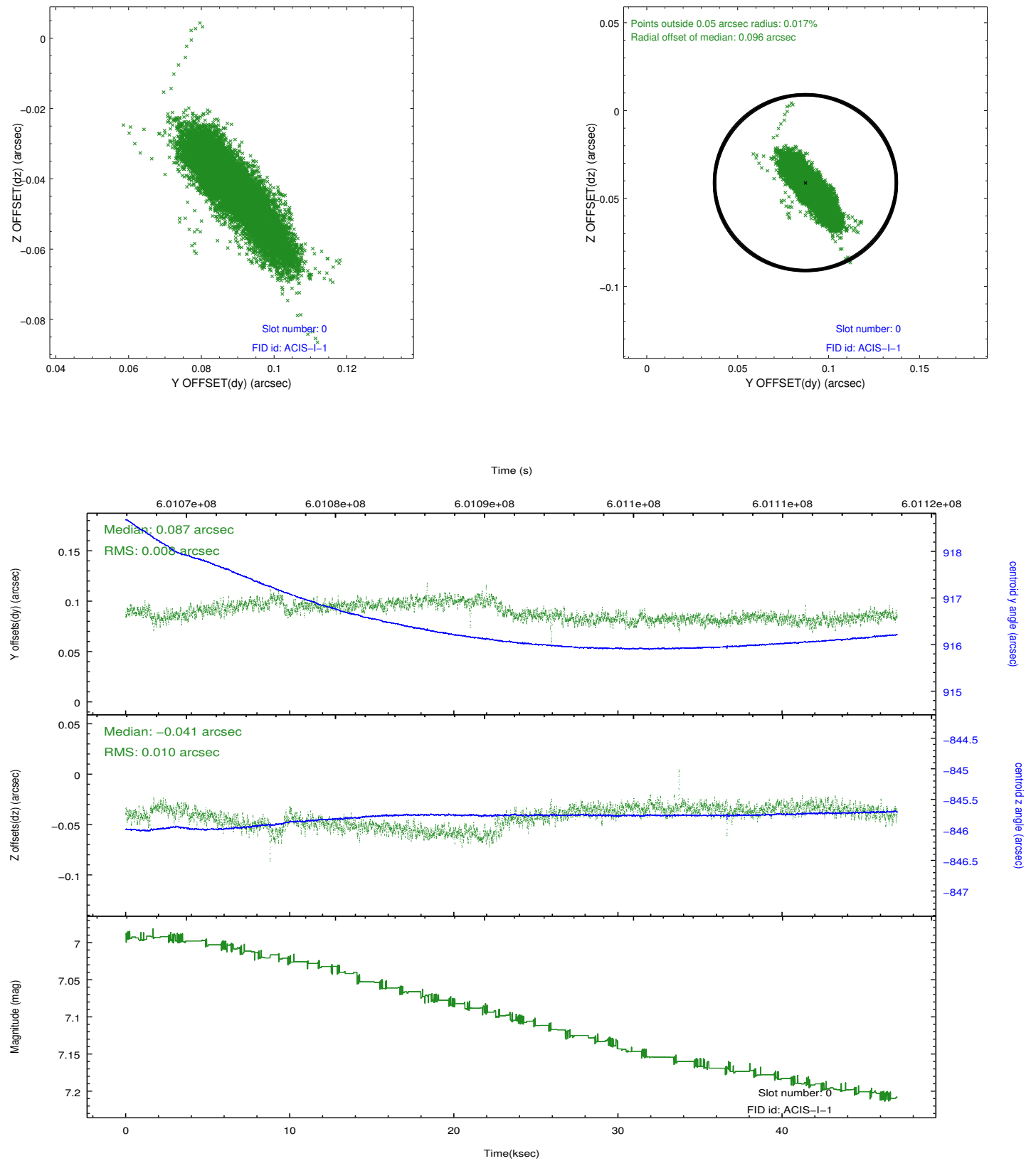


2.4.4 Slot 7

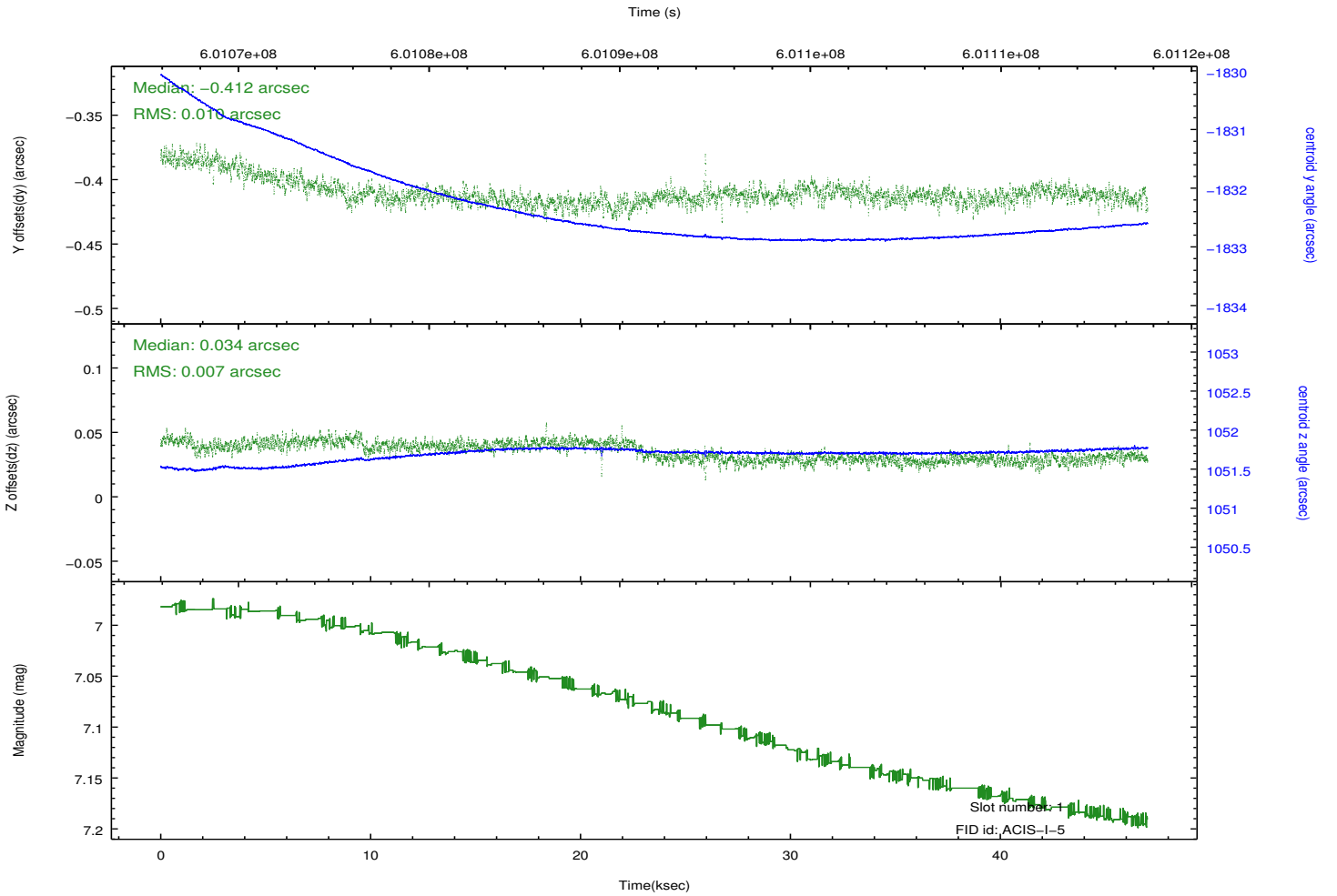
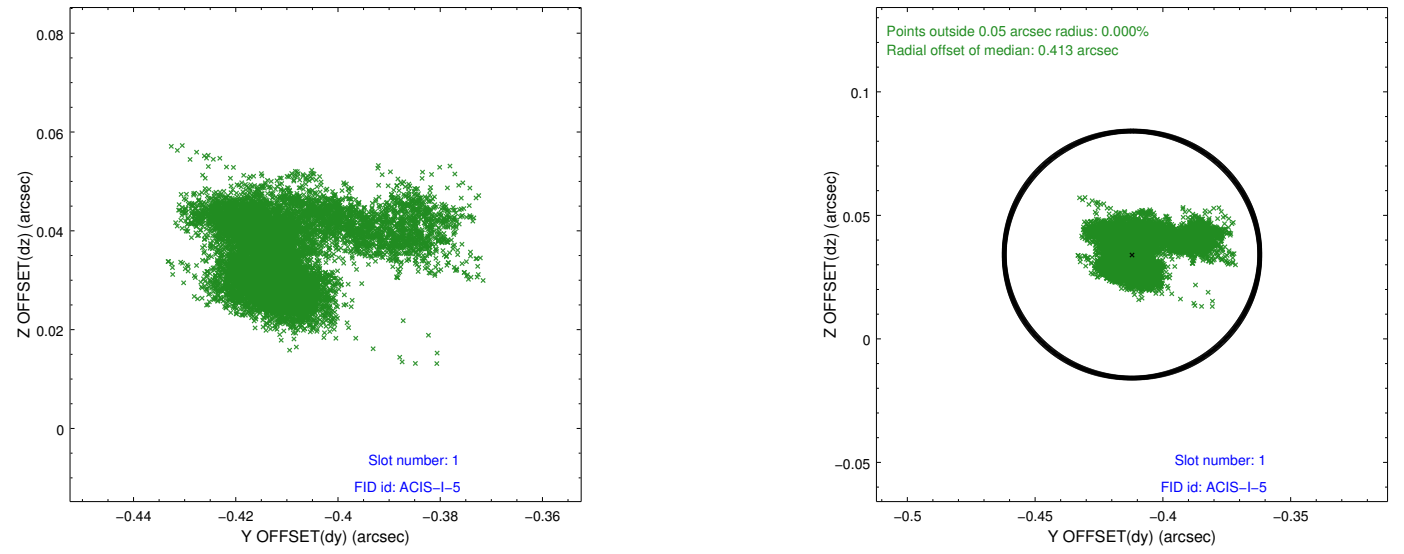


2.5 FID Slots

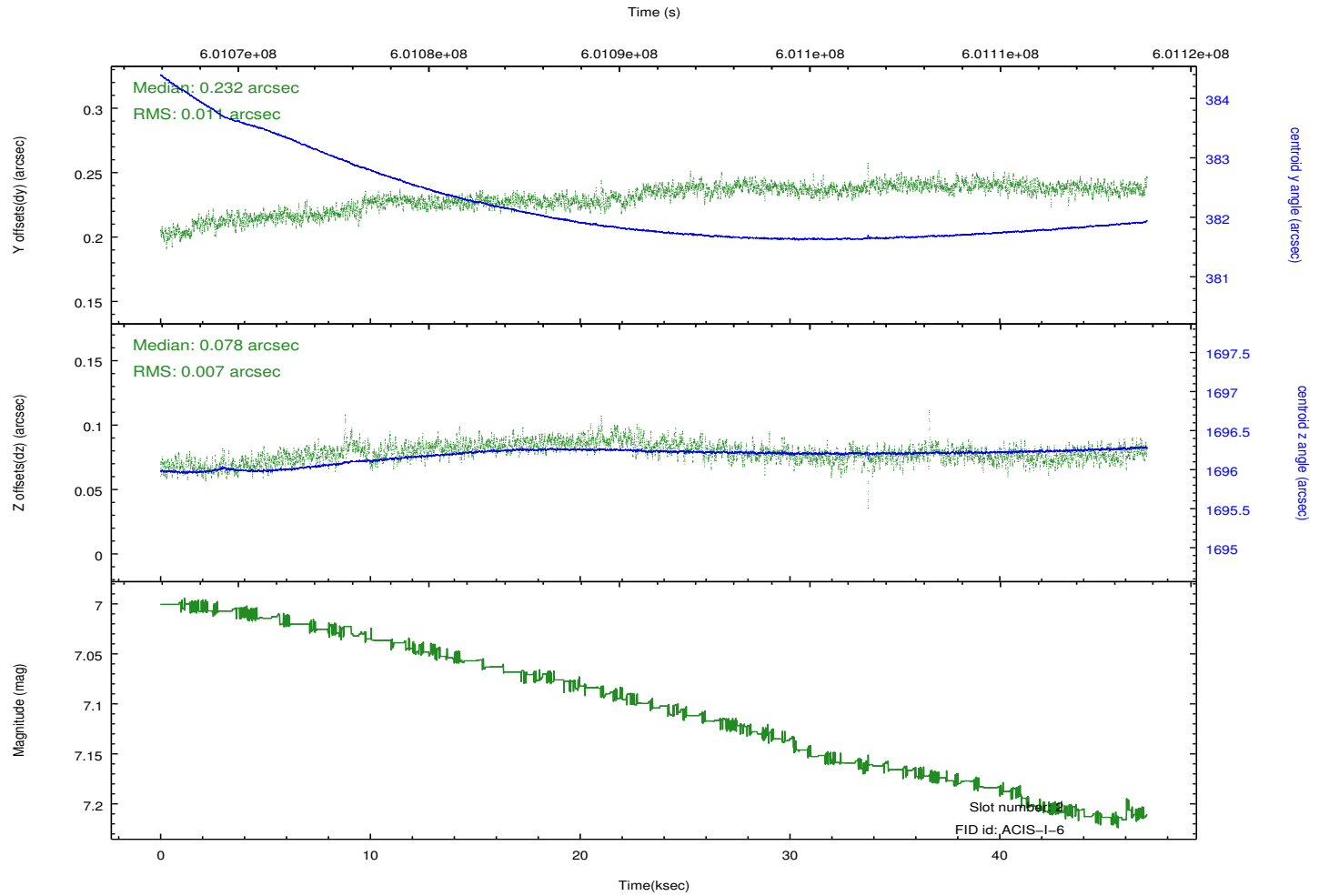
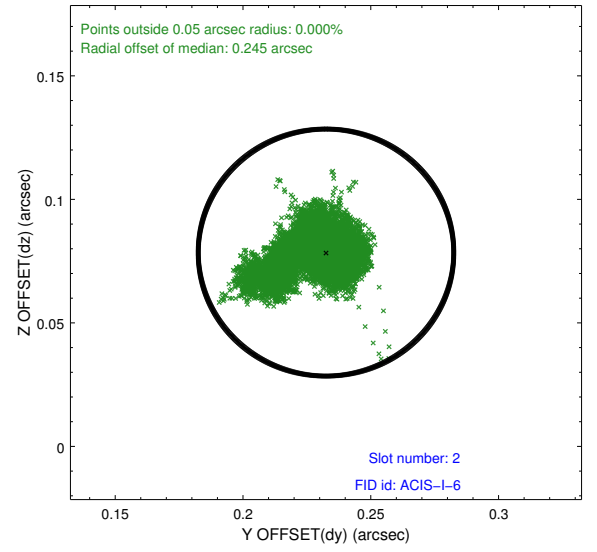
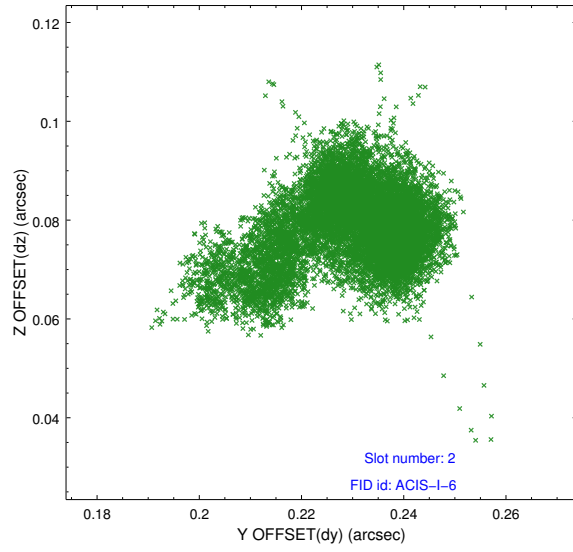
2.5.1 Slot 0



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)	2017.01.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.943259291053

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.