

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22454 - L2 Version 1
Chandra X-Ray Center

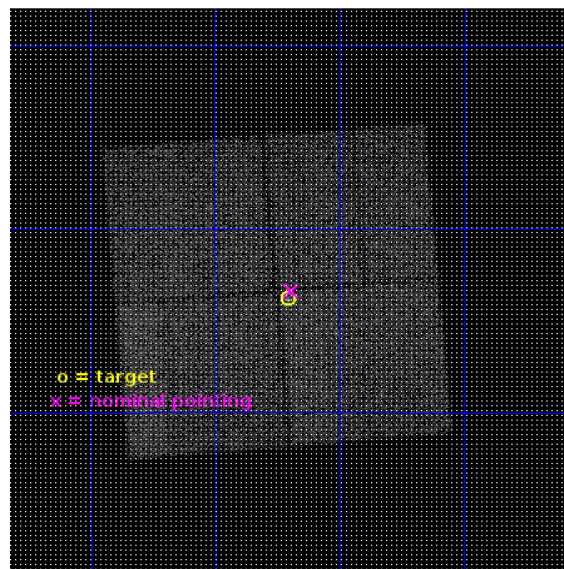
L2 Processing Date : Oct 3 2019

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1 Front

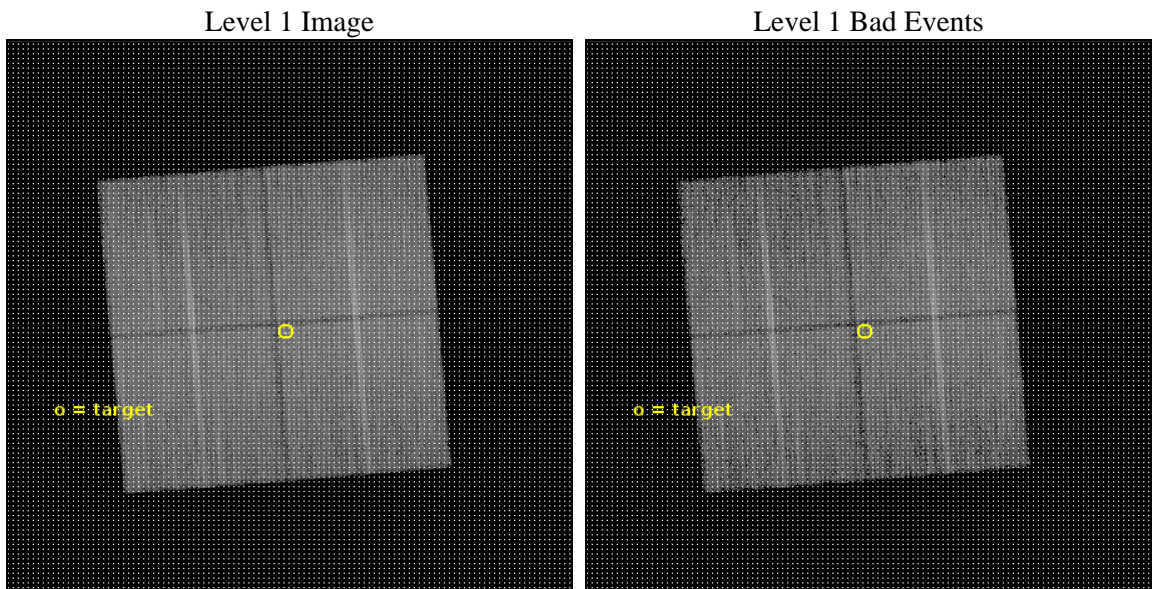
seq_num	503177	Sequence number
obs_id	22454	Observation id
title	Chandra observation of SGR 0755-2933	Proposal title
observer	George Younes	Principal investigator
object	SGR 0755-2933	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	118.927	Observer's specified target RA [deg]
dec_targ	-29.563667	Observer's specified target Dec [deg]
ra_nom	118.92331988742	Nominal RA [deg]
dec_nom	-29.556281333302	Nominal Dec [deg]
roll_nom	85.206869855189	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30078.292365193	Sum of GTIs [s]
livetime	29685.297332125	Livetime [s]
ontime0	30078.169245243	Sum of GTIs [s]
ontime1	30078.210285187	Sum of GTIs [s]
ontime2	30075.110384941	Sum of GTIs [s]
ontime3	30078.292365193	Sum of GTIs [s]
l2events	90283	Number of level 2 events



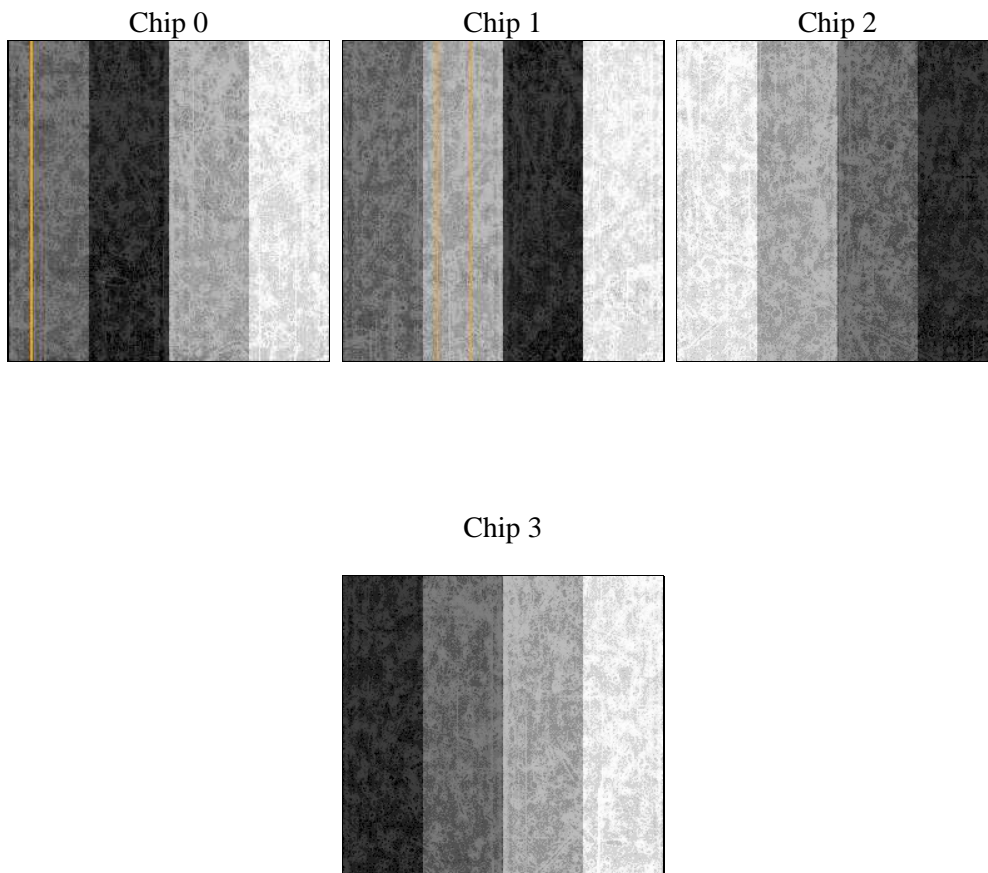
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	30078.292365193	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime0	30078.169245243	Sum of GTIs [s]
date	2019-10-03T22:51:43	Date and time of file creation	ontime1	30078.210285187	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30075.110384941	Sum of GTIs [s]
			ontime3	30078.292365193	Sum of GTIs [s]
			l1events	866702	Number of level 1 events

2.1.4 Events

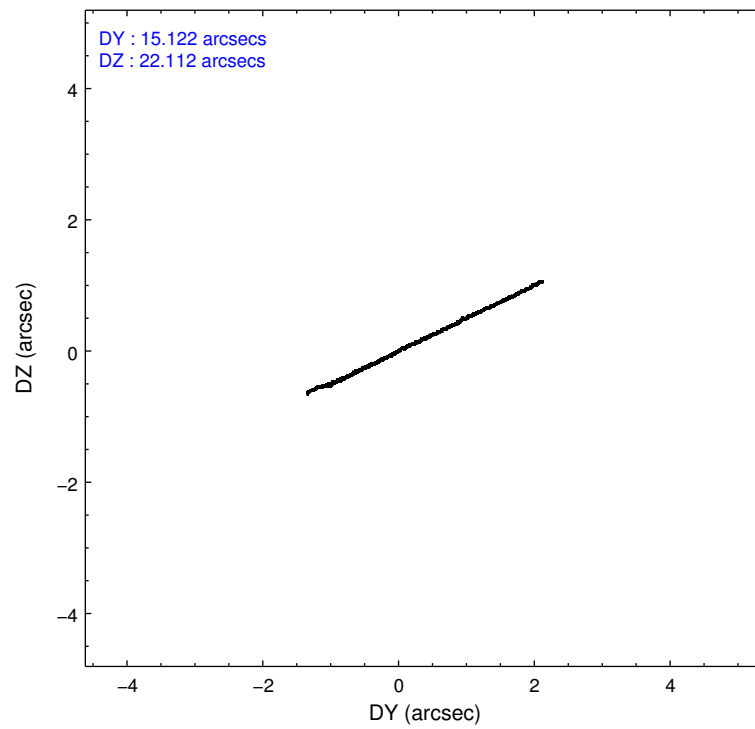
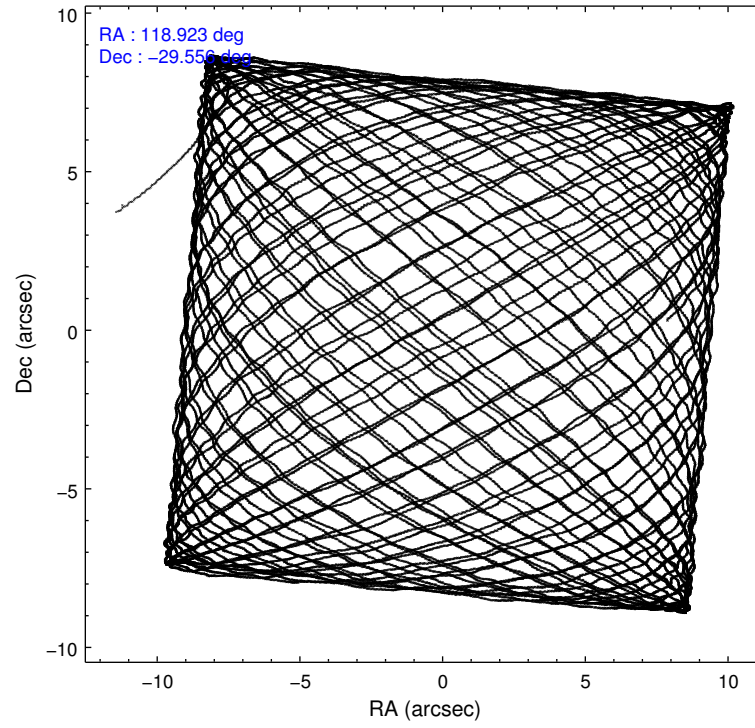
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	203077	215434	229062	219129
rejected events	176902	186897	203537	191510
rejected %	87%	86%	88%	87%

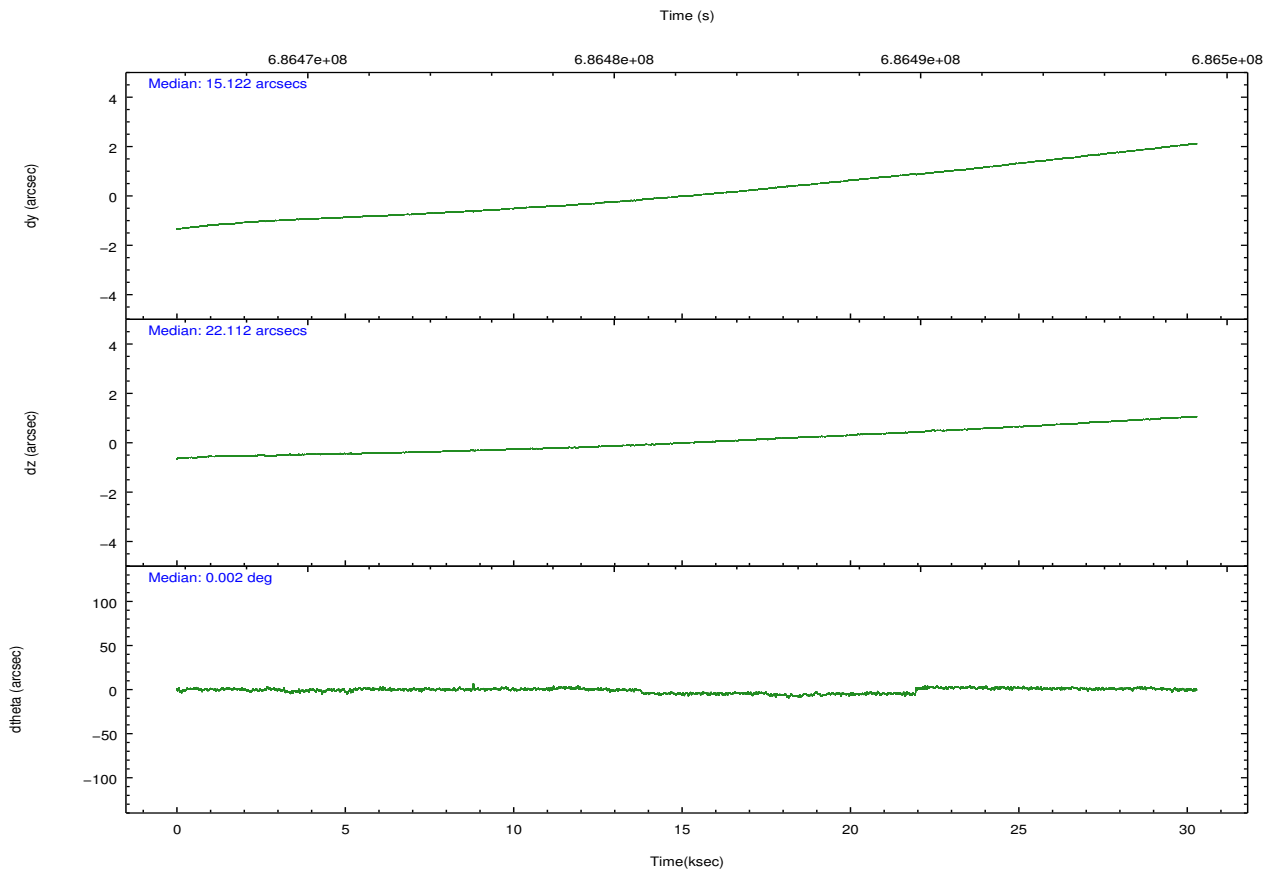
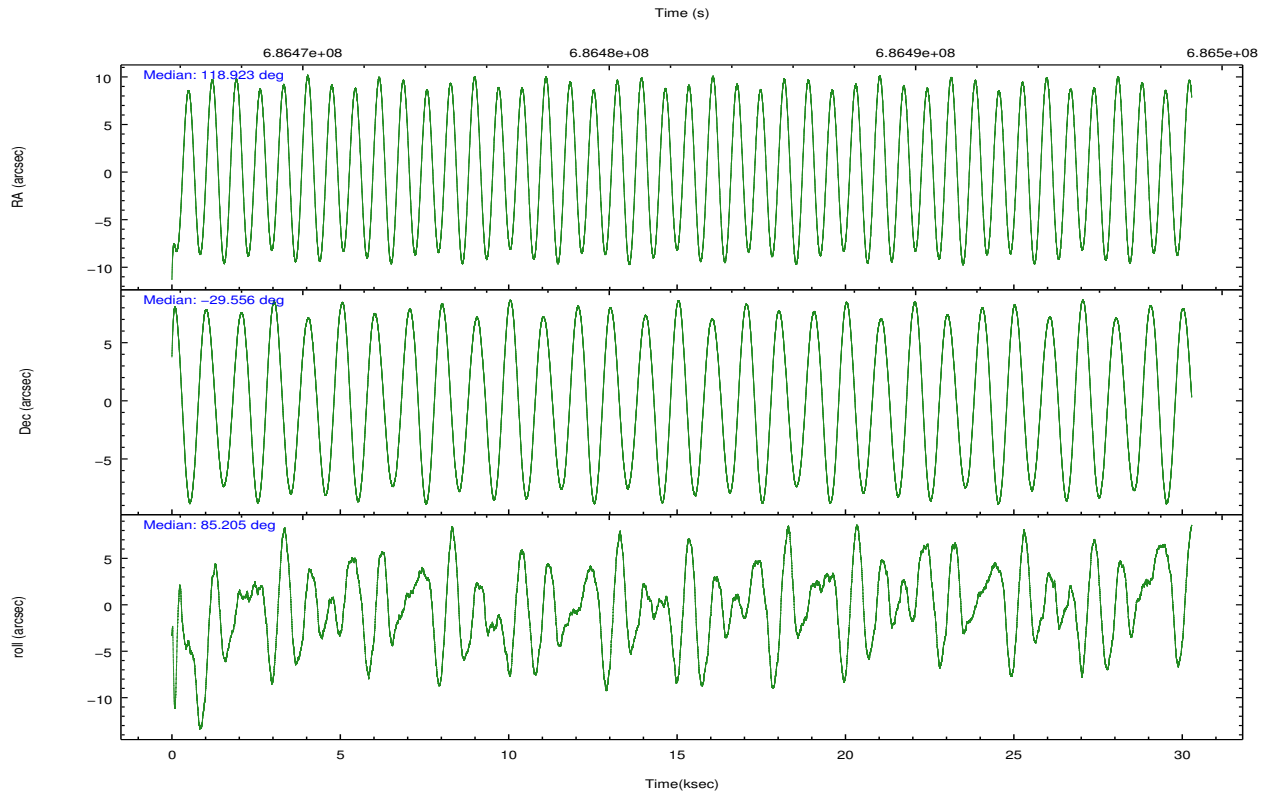
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8697	9495	8905	11284
	4%	4%	3%	5%
grade 1 events	128	135	140	211
	0%	0%	0%	0%
grade 2 events	6812	7305	6606	5815
	3%	3%	2%	2%
grade 3 events	2641	2695	2421	2633
	1%	1%	1%	1%
grade 4 events	2538	2643	2559	2588
	1%	1%	1%	1%
grade 5 events	10108	10591	9526	11086
	4%	4%	4%	5%
grade 6 events	5490	6404	5039	5305
	2%	2%	2%	2%
grade 7 events	166663	176166	193866	180207
	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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	118.936940	118.9233198874201	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.581229	-29.55628133330216	Alternating exposures requested	N	N
[deg] Pointing Roll	85.004904	85.20686985518937	[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)	686467517.184000	686466431.6			
Observation start date	2019-10-03T05:24:08	2019-10-03T05:07:11			
[s] Observation end time (MET)	686497517.184000	686498449.52693			
Observation end date	2019-10-03T13:44:08	2019-10-03T14:00:49			
Read mode	TIMED	TIMED			

2.3 Aspect





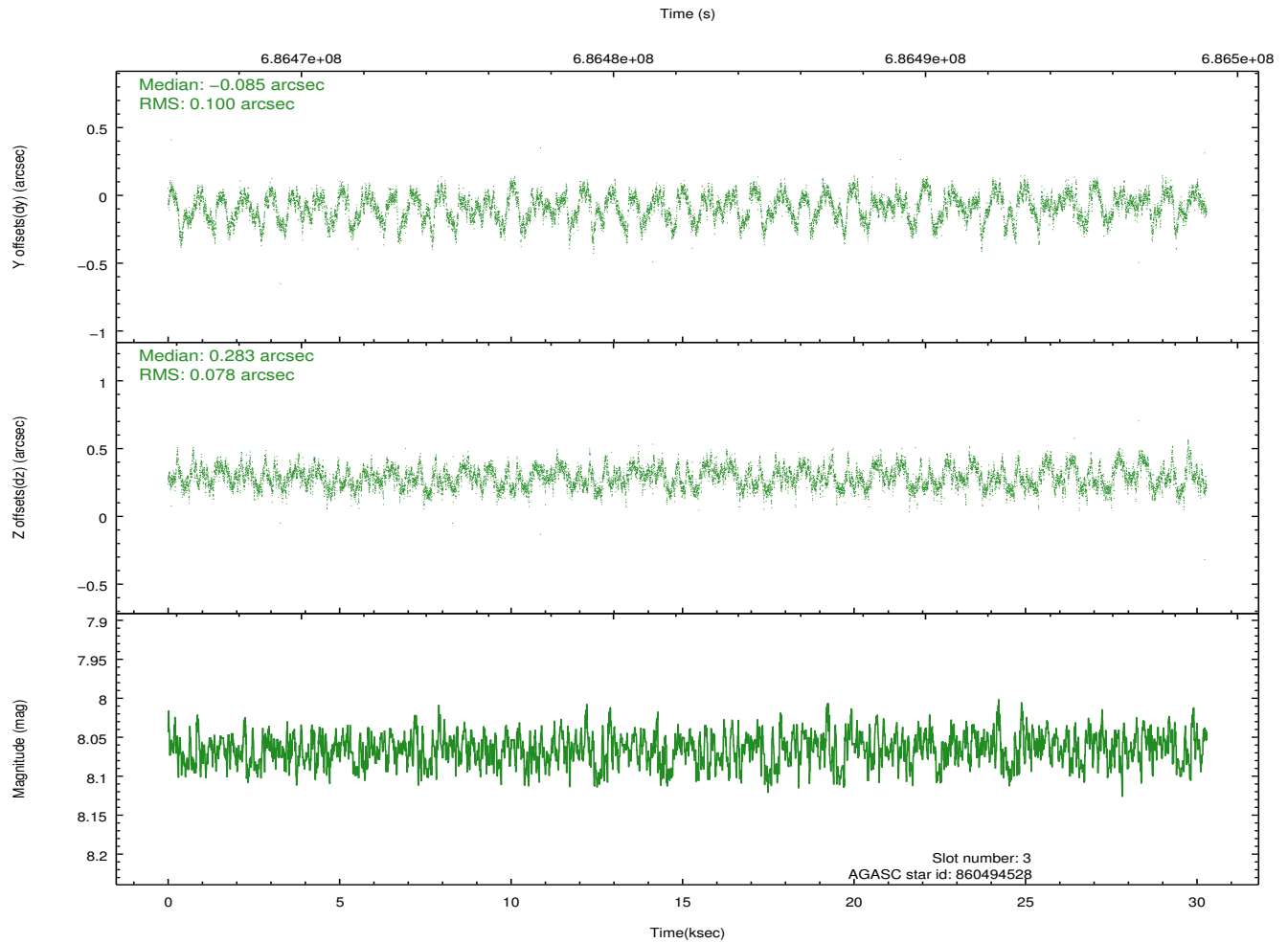
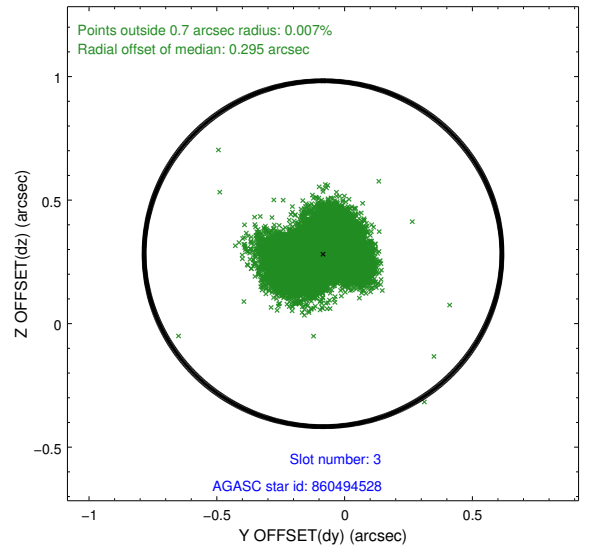
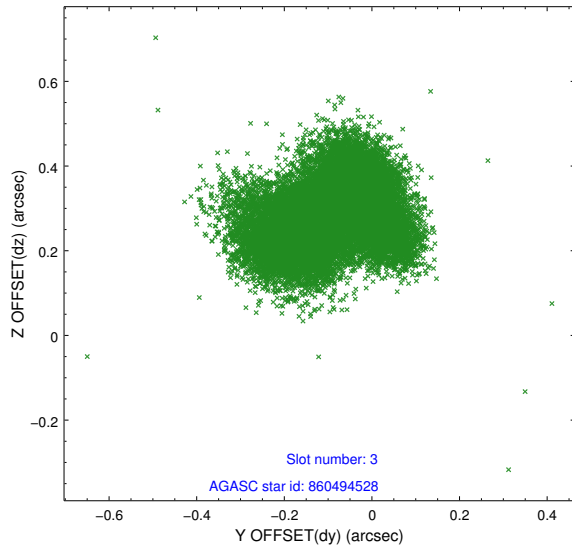
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.04	7385	1.000	-0.391	-0.293	0.033	0.075	0.000000	0.000000	-770.47	-852
1	FID		ACIS-I-3	7.36	7386	1.000	-0.161	0.008	0.037	0.088	0.000000	0.000000	41.23	-979
2	FID		ACIS-I-4	7.07	7386	1.000	0.456	0.347	0.021	0.036	0.000000	0.000000	2144.64	1053
3	GUIDE	used	860494528	8.07	14759	1.000	-0.085	0.283	0.137	0.207	118.960684	-29.538663	158.90	-61
4	GUIDE	used	860497680	8.86	14757	1.000	-0.291	-0.604	0.127	0.201	118.416268	-29.122994	1496.64	1773
5	GUIDE	used	860506016	8.22	14714	1.000	-0.349	-0.487	0.096	0.157	118.384627	-29.226490	1116.23	1838
6	GUIDE	used	860622216	8.97	14753	1.000	0.628	0.711	0.157	0.268	119.319150	-29.711564	-364.56	-1231
7	GUIDE	used	860499736	8.30	14763	1.000	0.114	0.080	0.126	0.205	118.367958	-29.824149	-1030.42	1692

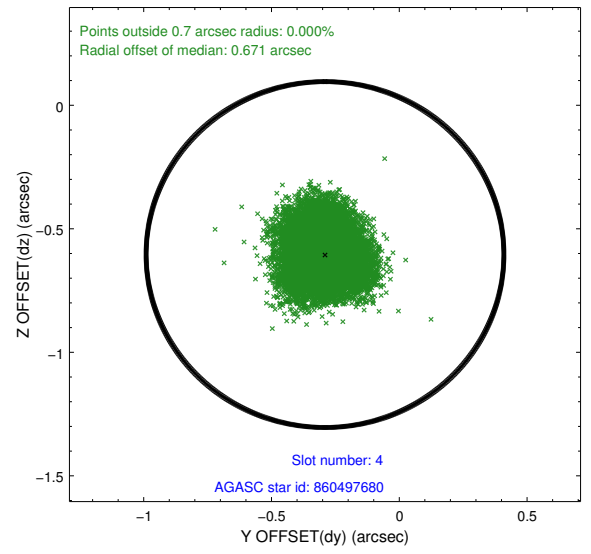
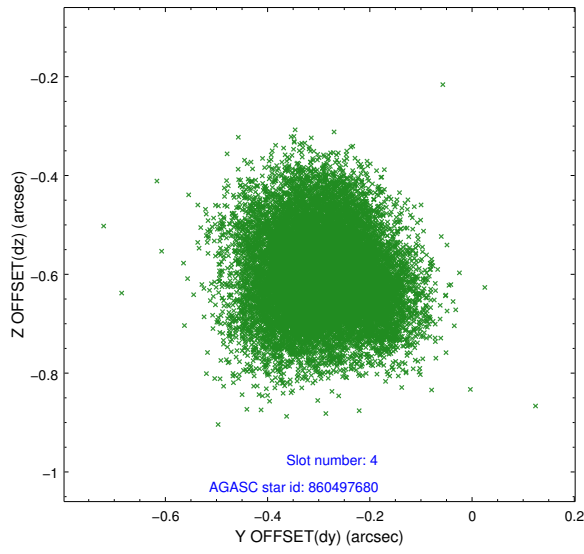
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2.4 Star Slots

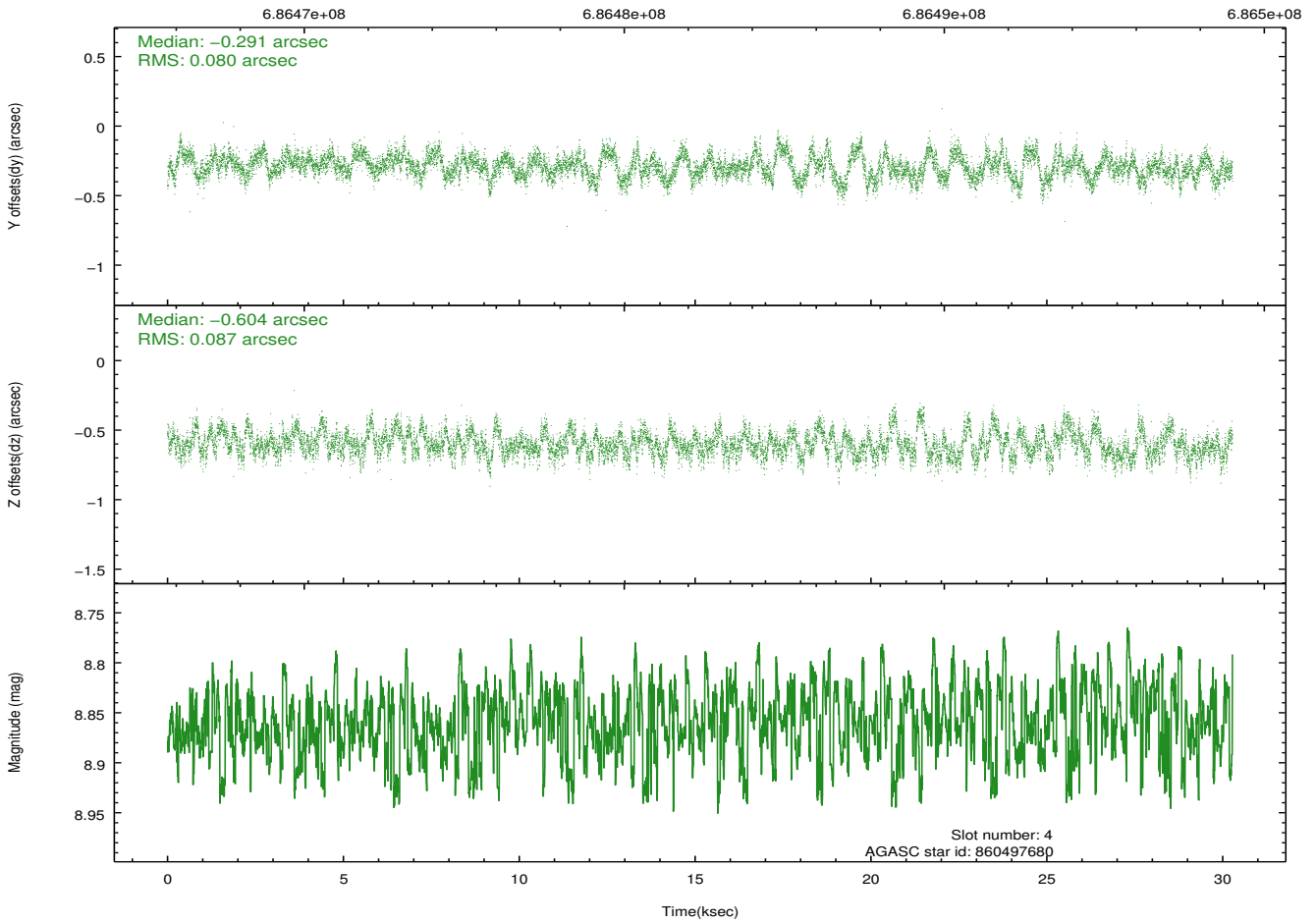
2.4.1 Slot 3



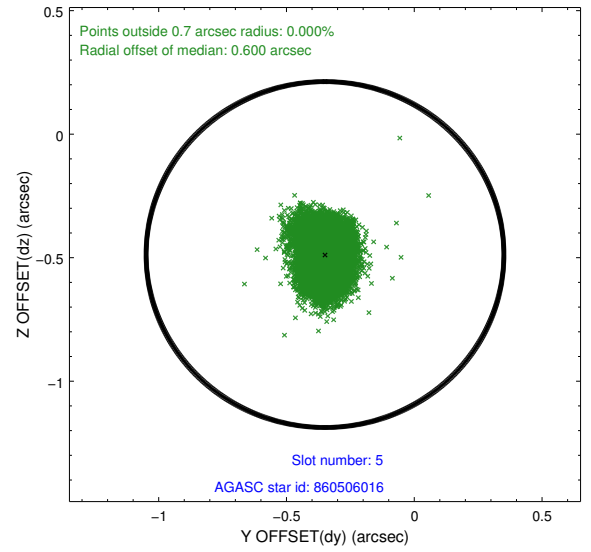
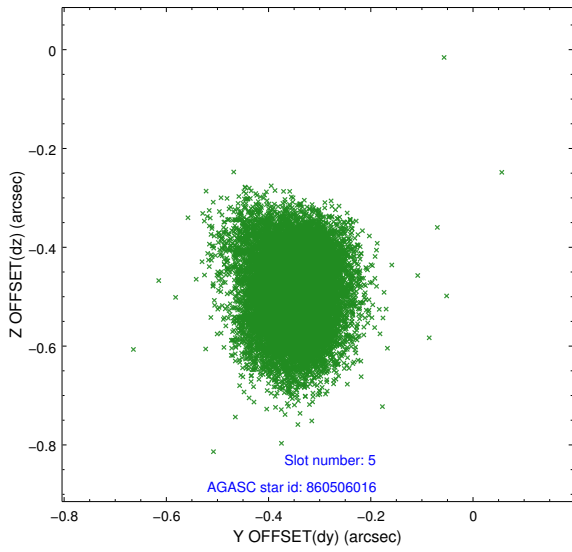
2.4.2 Slot 4



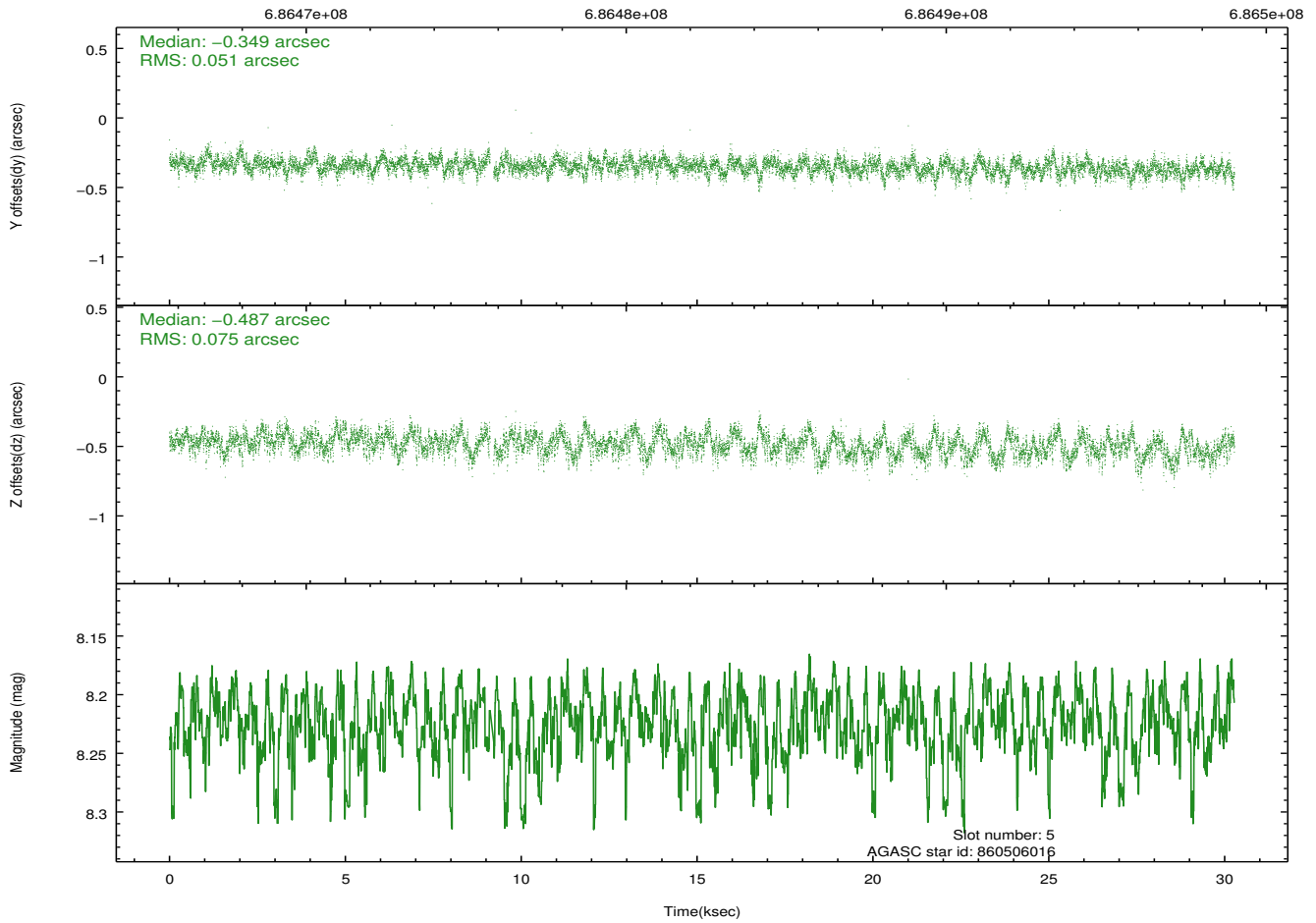
Time (s)



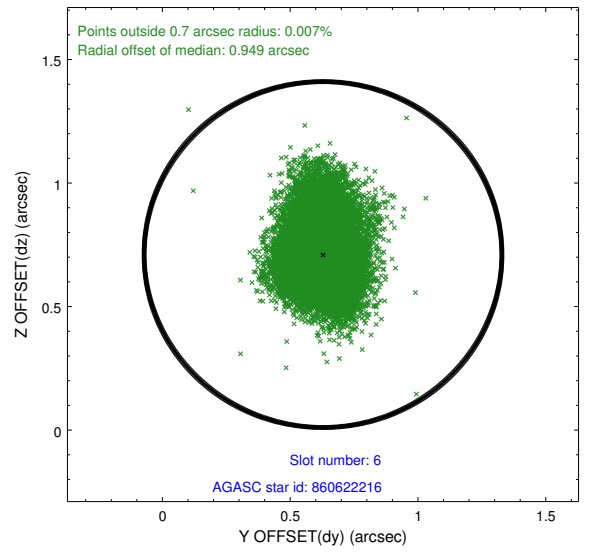
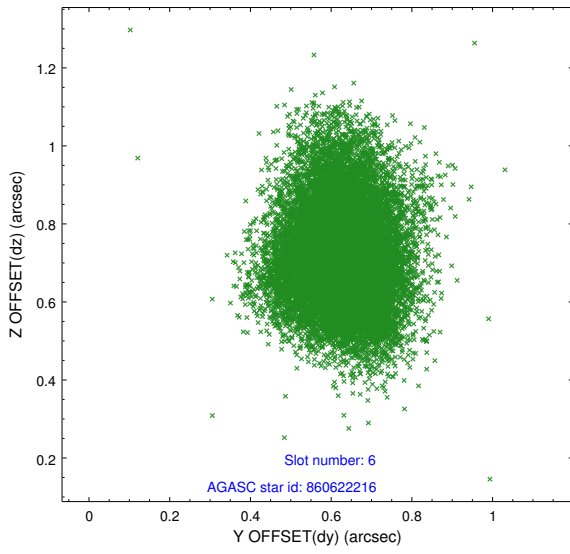
2.4.3 Slot 5



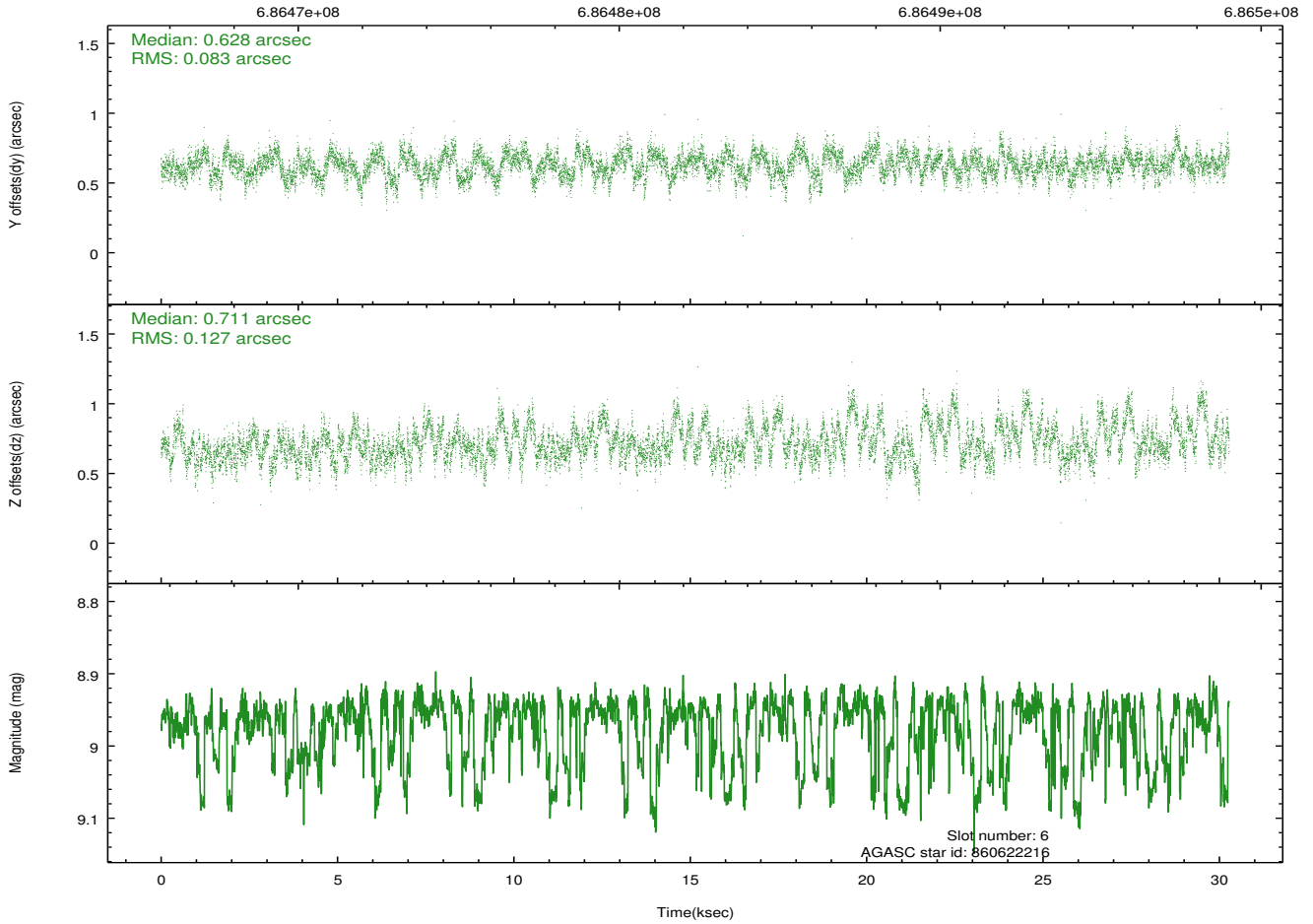
Time (s)



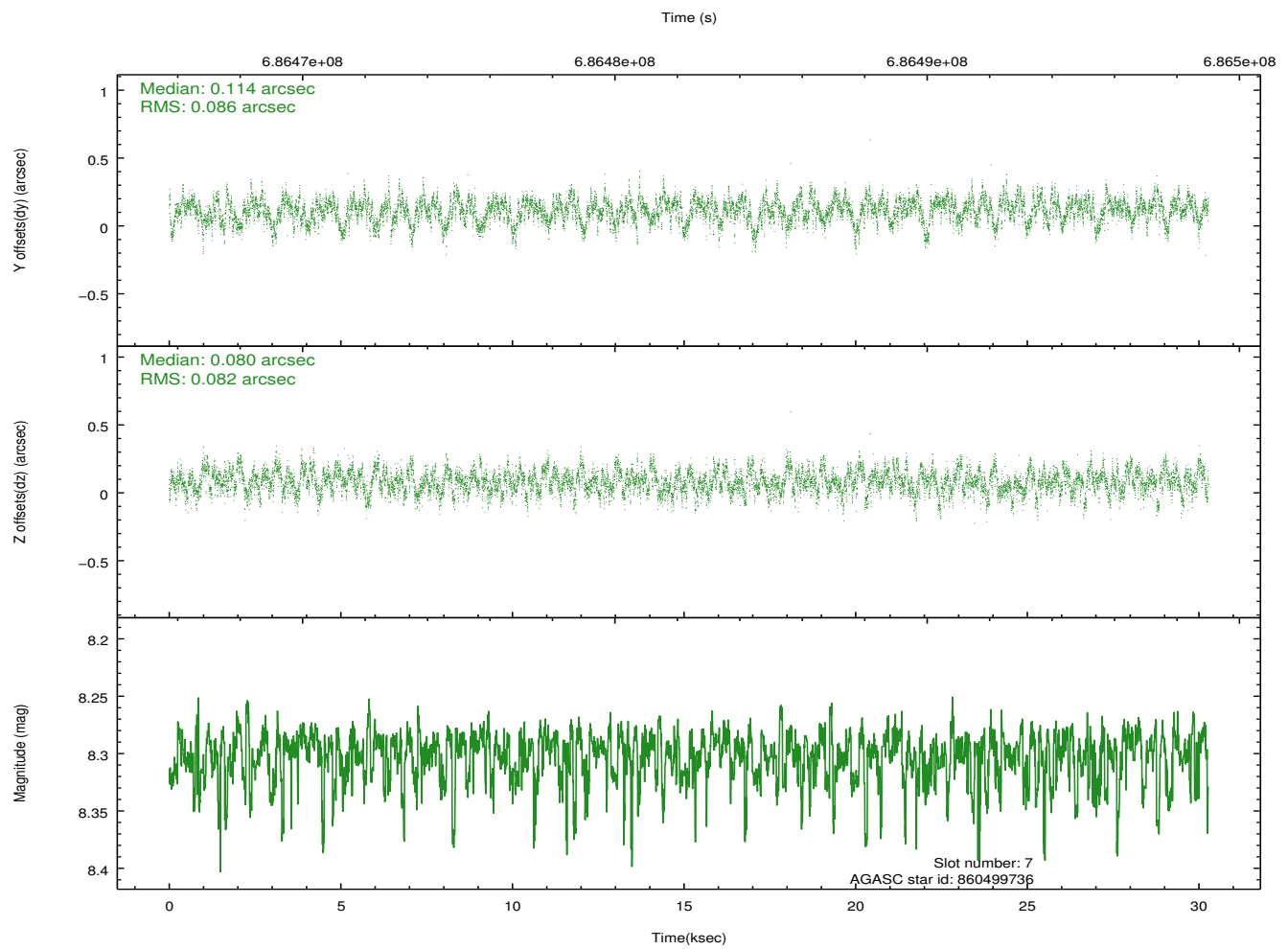
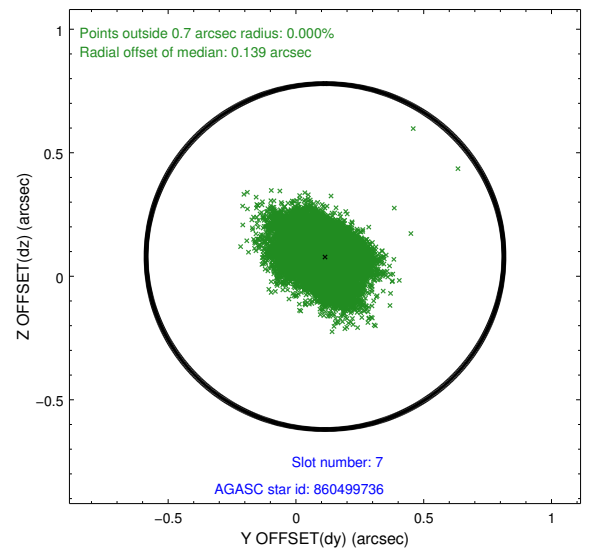
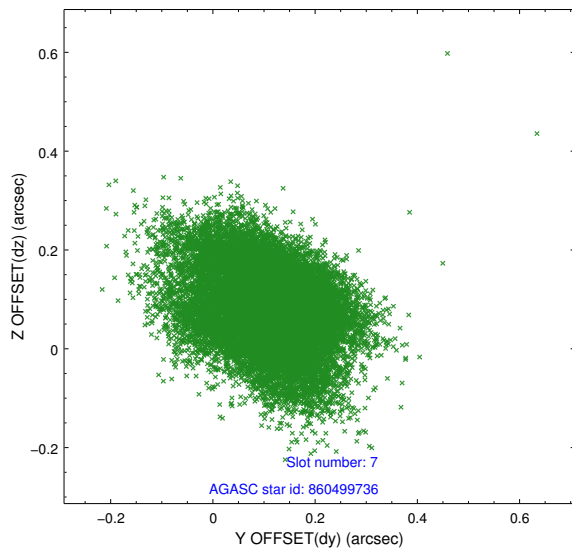
2.4.4 Slot 6



Time (s)

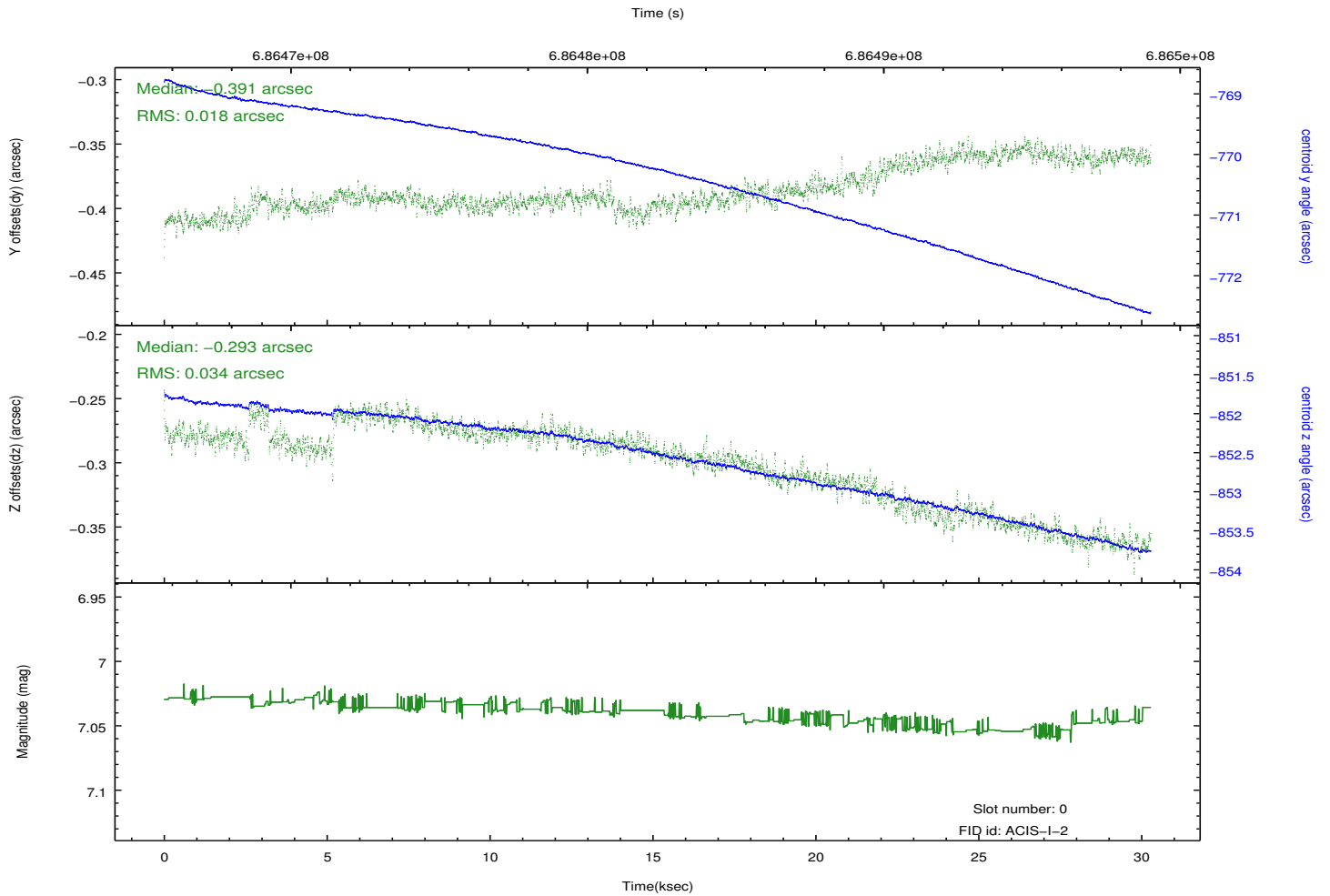
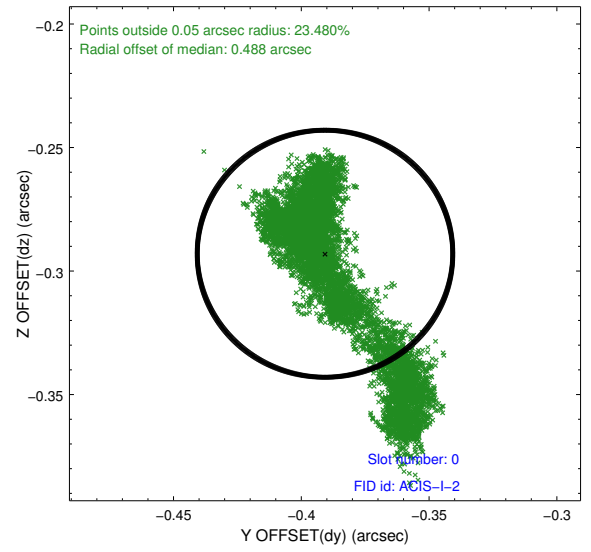
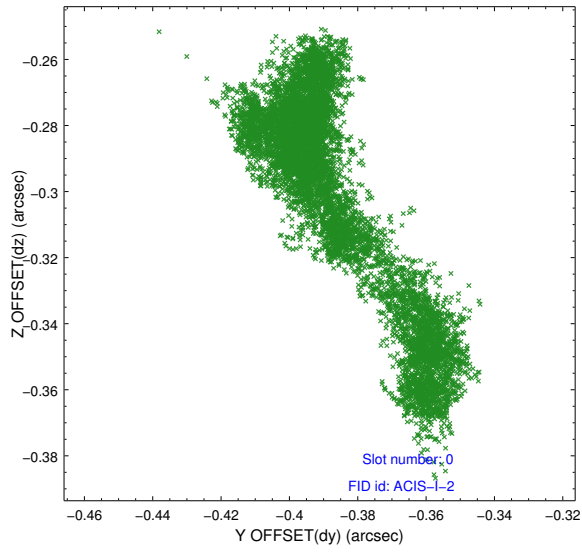


2.4.5 Slot 7

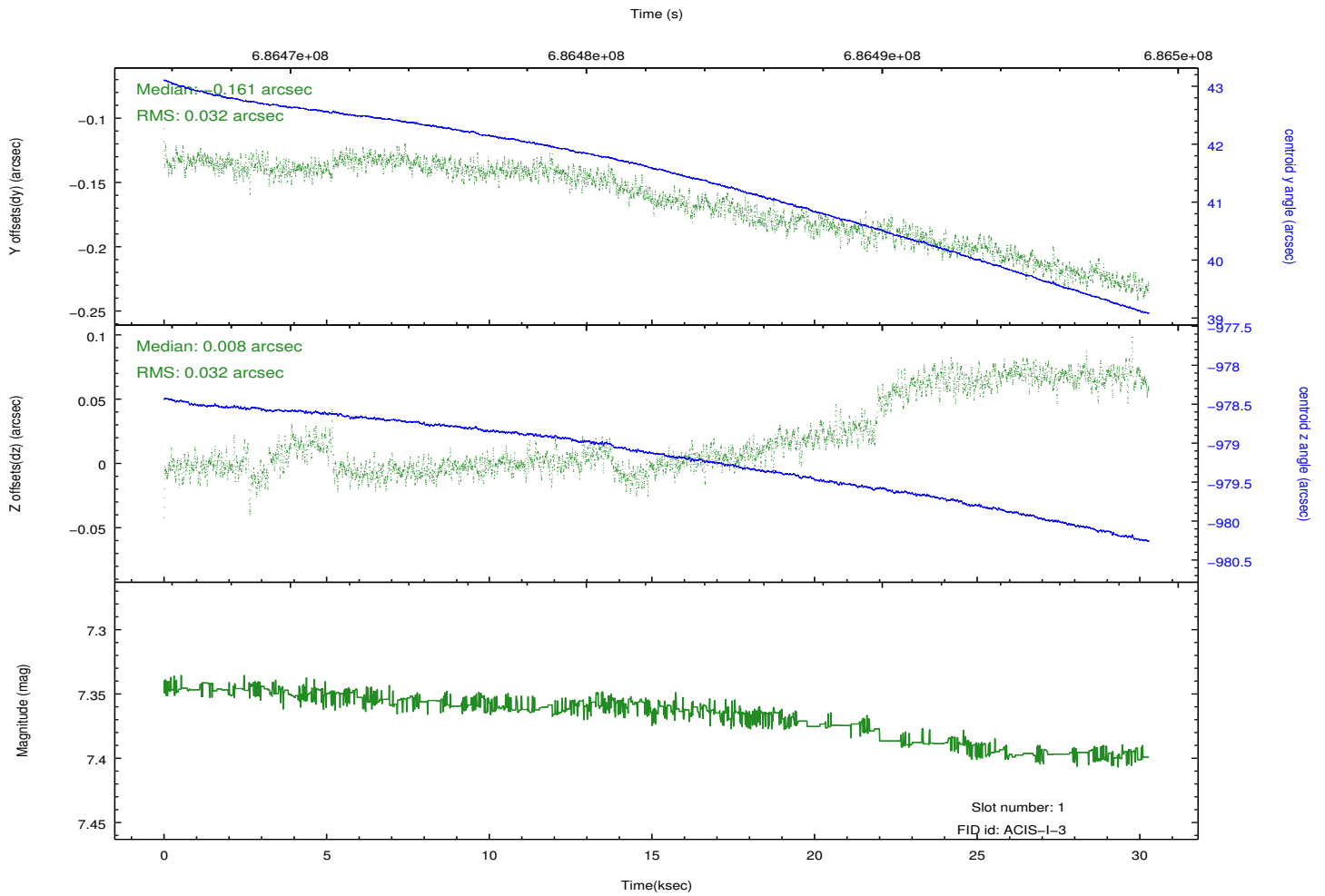
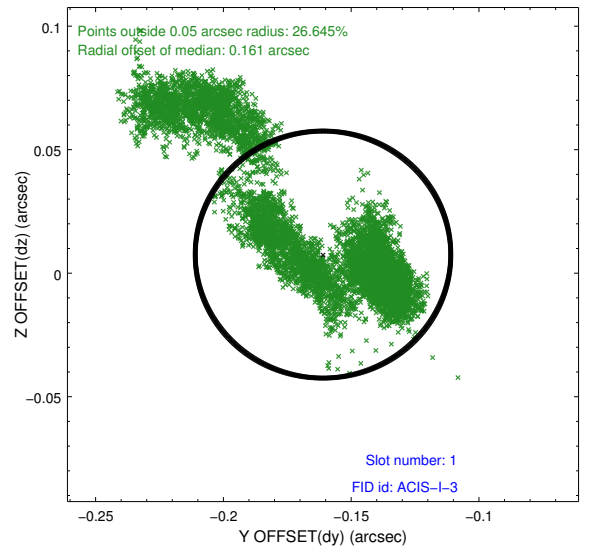
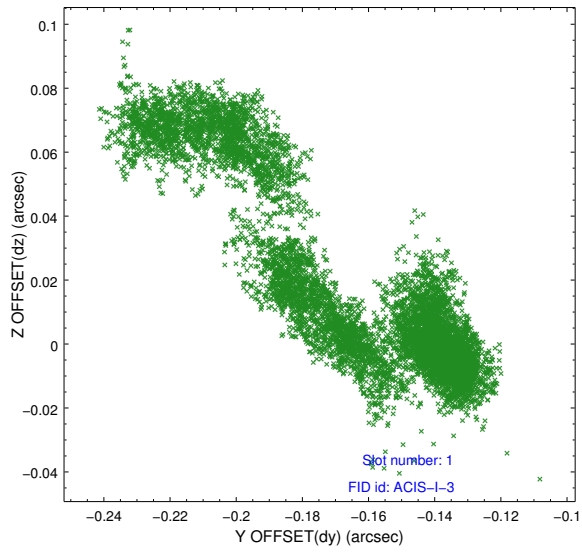


2.5 FID Slots

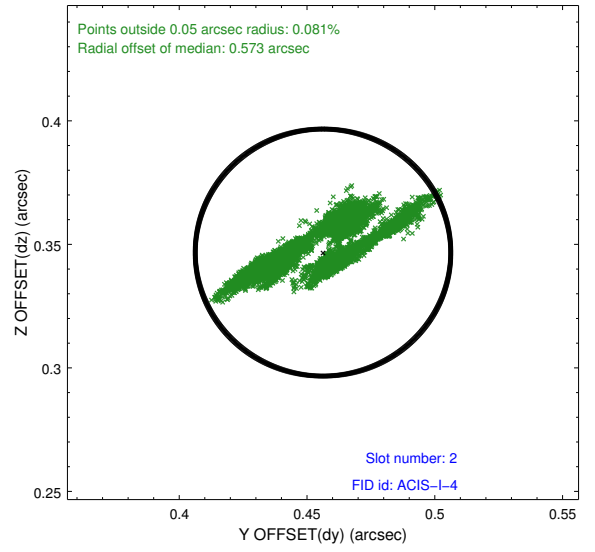
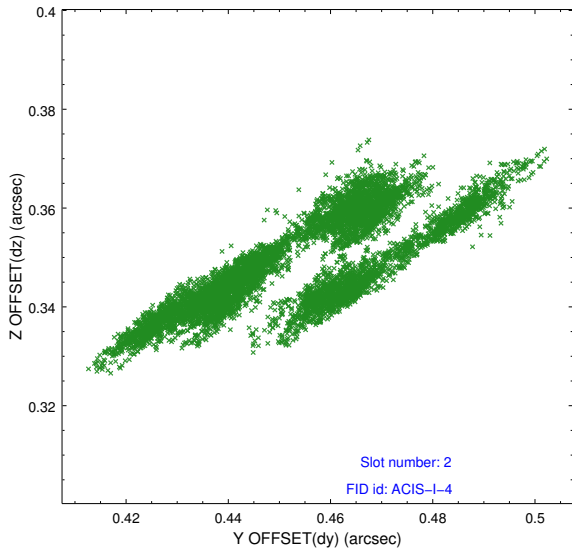
2.5.1 Slot 0



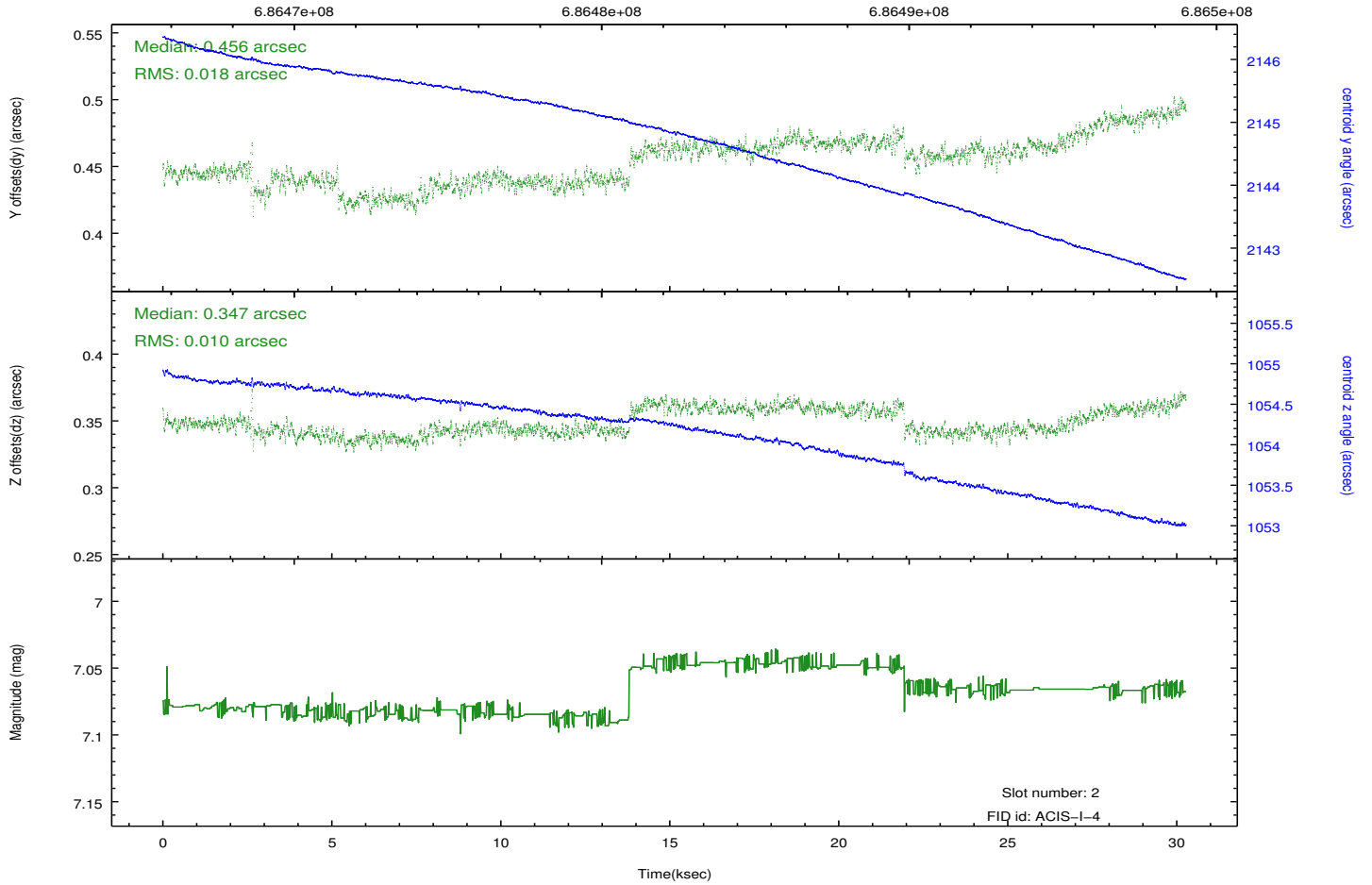
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.078292365193

A.2 Comments