

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21588 - L2 Version 1
Chandra X-Ray Center

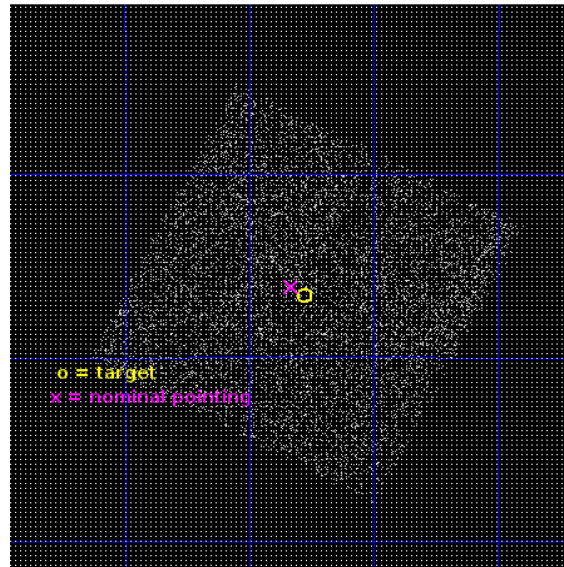
L2 Processing Date : Jul 2 2019

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1 Front

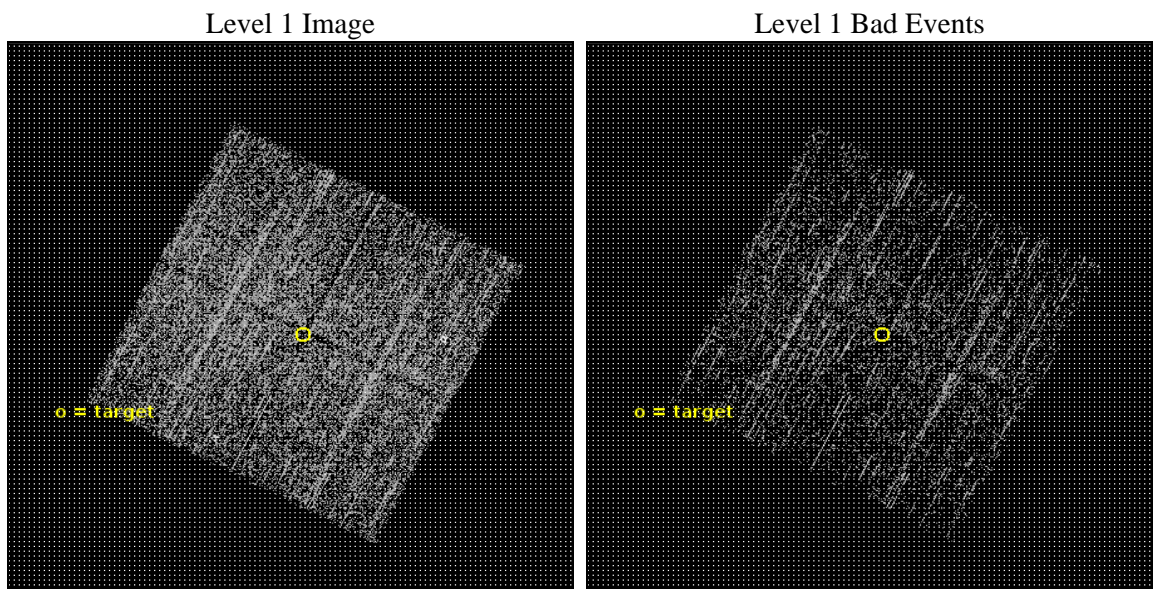
seq_num	300420	Sequence number
obs_id	21588	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.56909	Observer's specified target RA [deg]
dec_targ	-29.943697	Observer's specified target Dec [deg]
ra_nom	266.58263944532	Nominal RA [deg]
dec_nom	-29.935564028234	Nominal Dec [deg]
roll_nom	297.2154949547	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.6689584255	Sum of GTIs [s]
livetime	1883.730793342	Livetime [s]
ontime0	1908.627908349	Sum of GTIs [s]
ontime1	1908.6689584255	Sum of GTIs [s]
ontime2	1908.7099883556	Sum of GTIs [s]
ontime3	1905.6099780798	Sum of GTIs [s]
l2events	6164	Number of level 2 events



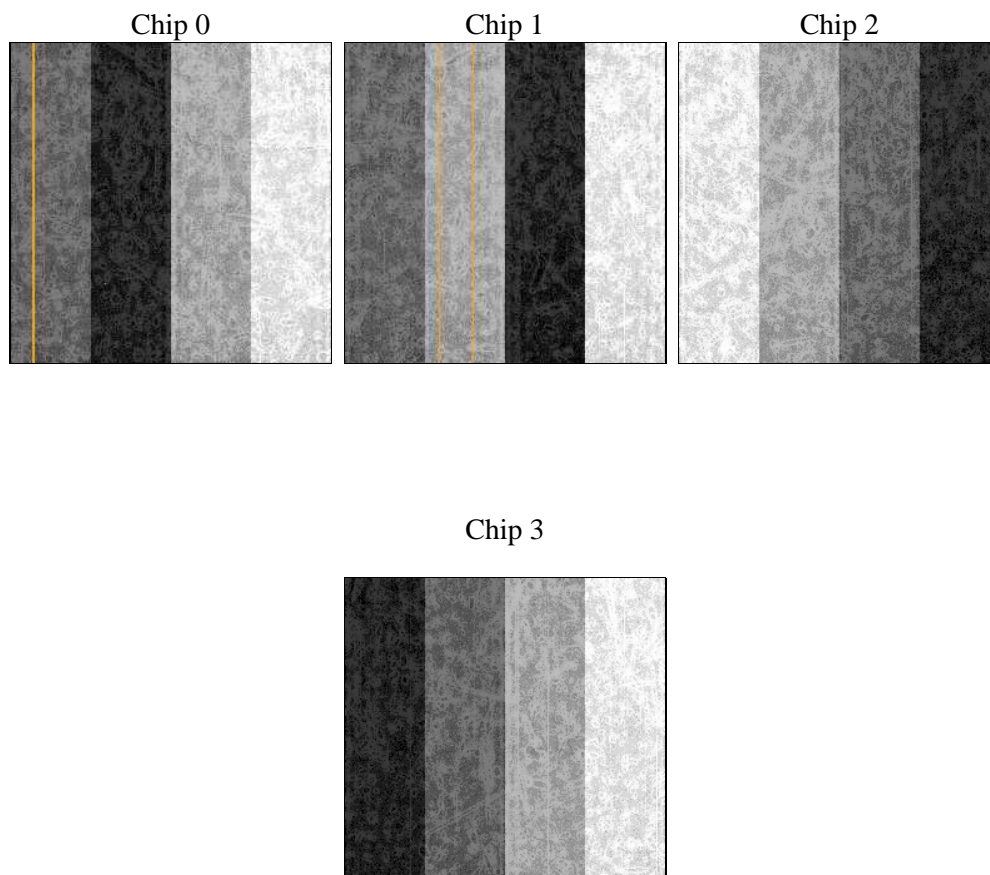
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.6689584255	Sum of GTIs [s]
caldsver	4.8.3	 	ontime0	1908.627908349	Sum of GTIs [s]
date	2019-07-02T14:05:26	Date and time of file creation	ontime1	1908.6689584255	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.7099883556	Sum of GTIs [s]
			ontime3	1905.6099780798	Sum of GTIs [s]
			l1events	57027	Number of level 1 events

2.1.4 Events

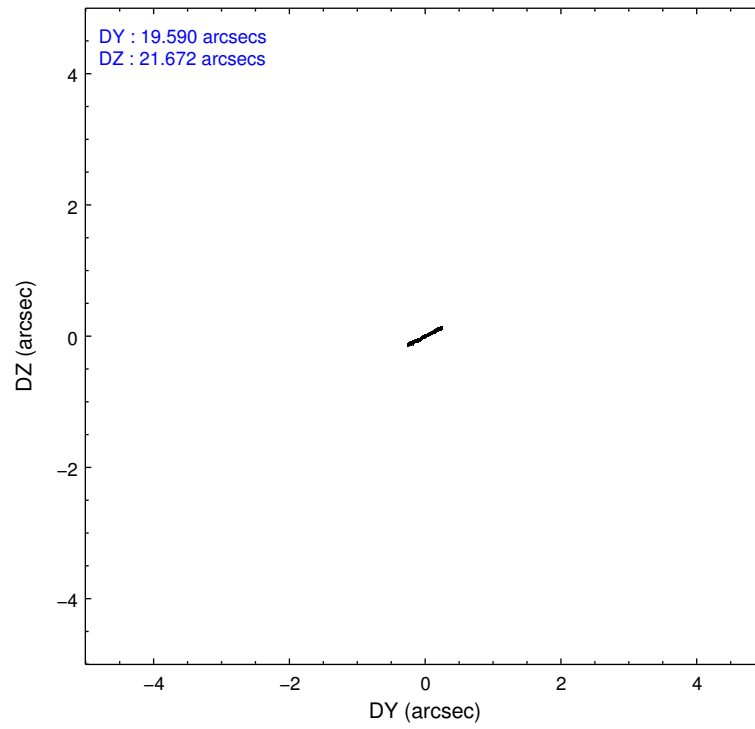
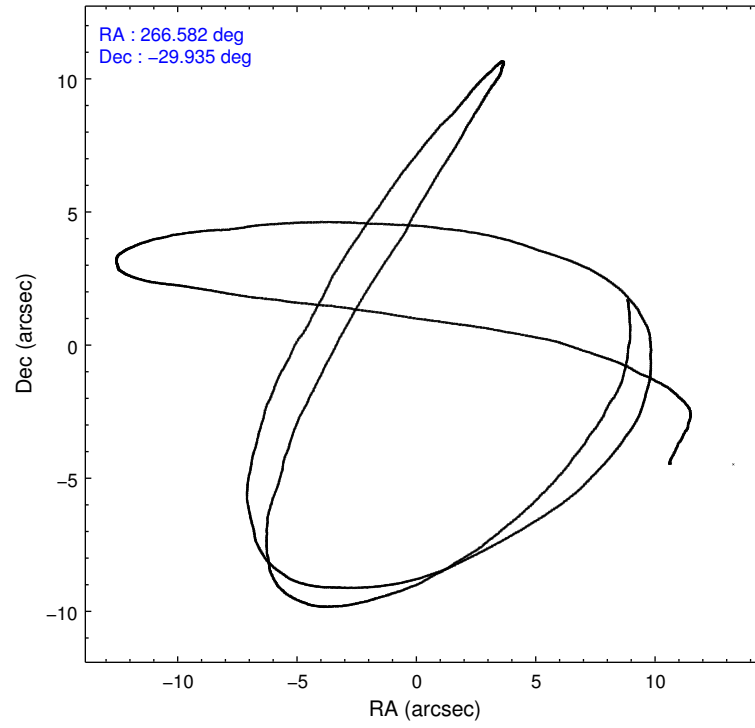
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	12689	14315	15449	14574
rejected events	10910	11827	13473	12834
rejected %	85%	82%	87%	88%

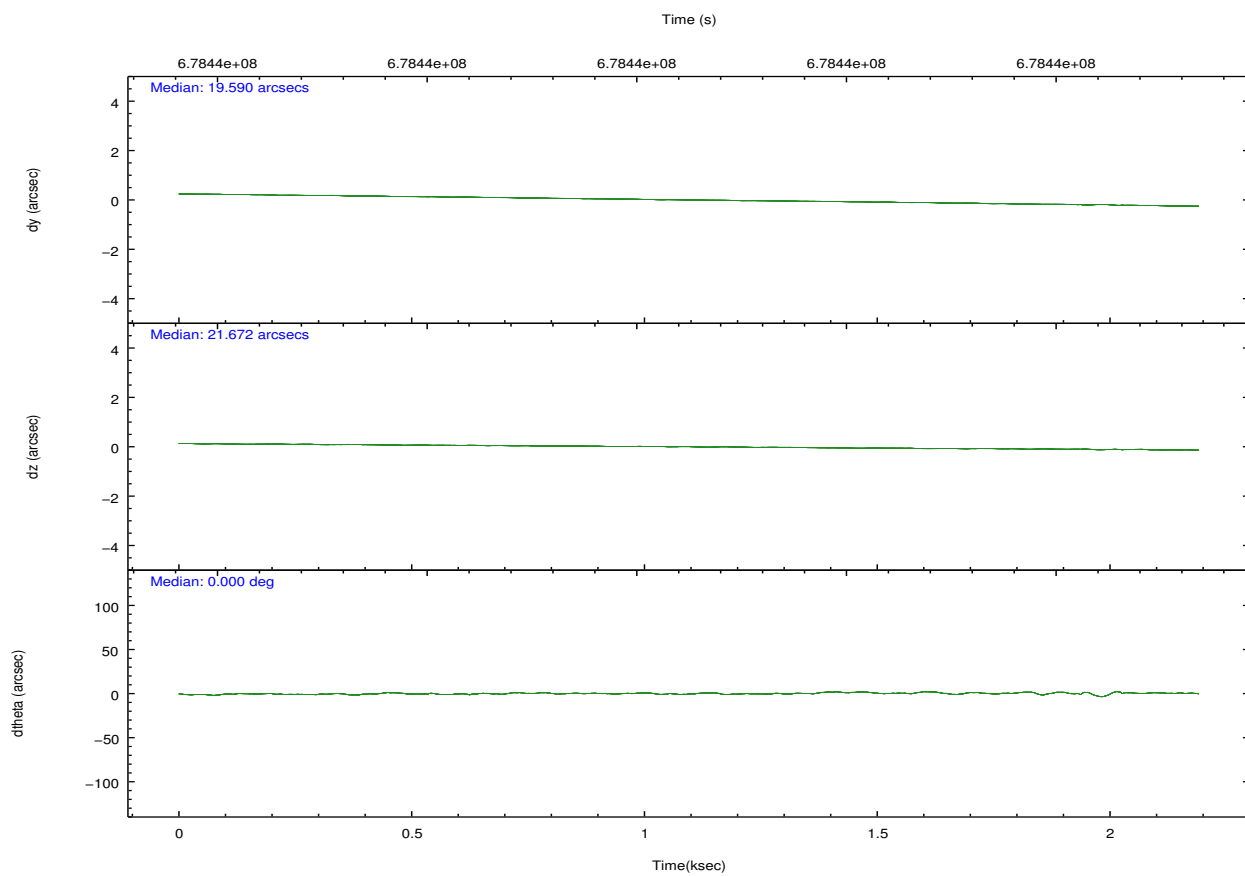
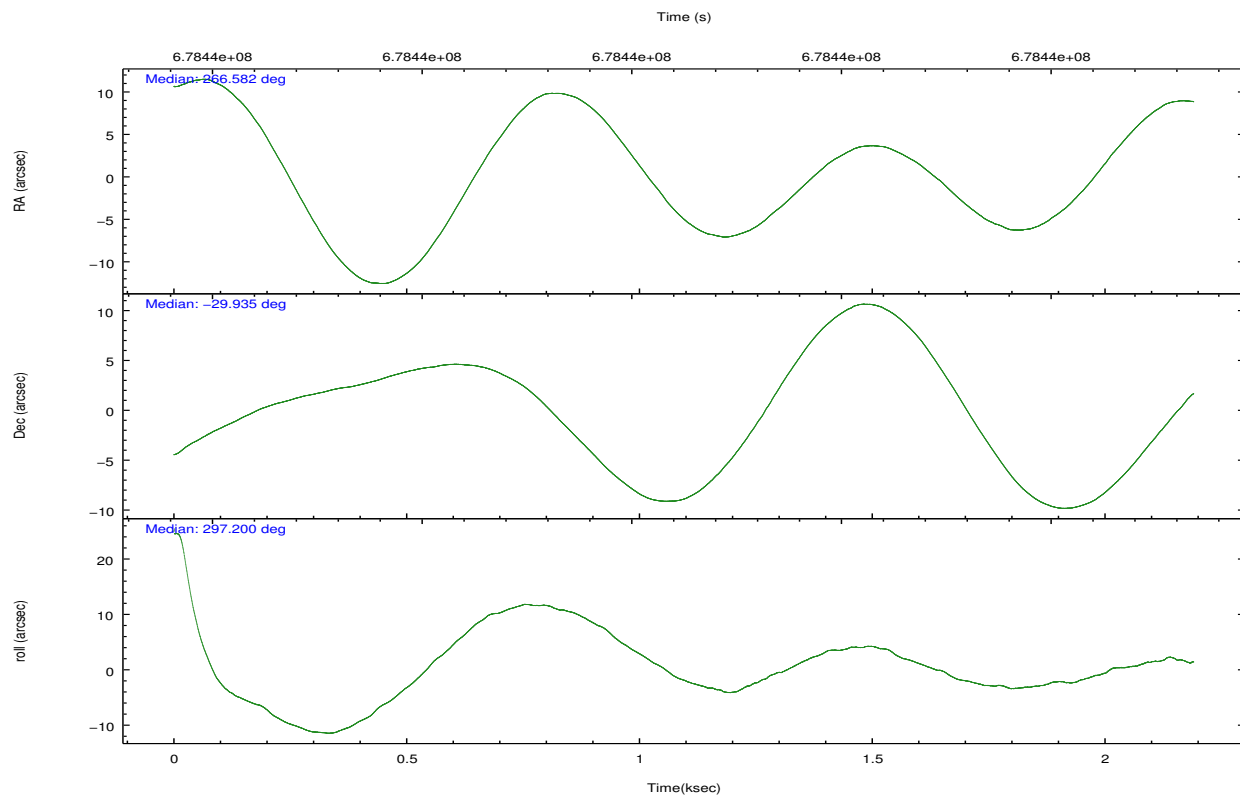
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	646	1233	917	700
	5%	8%	5%	4%
grade 1 events	10	12	15	11
	0%	0%	0%	0%
grade 2 events	447	534	389	361
	3%	3%	2%	2%
grade 3 events	162	152	185	167
	1%	1%	1%	1%
grade 4 events	159	135	169	173
	1%	0%	1%	1%
grade 5 events	589	634	602	699
	4%	4%	3%	4%
grade 6 events	369	439	322	341
	2%	3%	2%	2%
grade 7 events	10307	11176	12850	12122
	81%	78%	83%	83%

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	266.555631	266.5826394453231	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.920619	-29.93556402823355	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993290	297.2154949546959	[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)	678441717.184000	678441341.21745			
Observation start date	2019-07-02T08:00:48	2019-07-02T07:55:41			
[s] Observation end time (MET)	678443717.184000	678443851.4426			
Observation end date	2019-07-02T08:34:08	2019-07-02T08:37:31			
Read mode	TIMED	TIMED			

2.3 Aspect



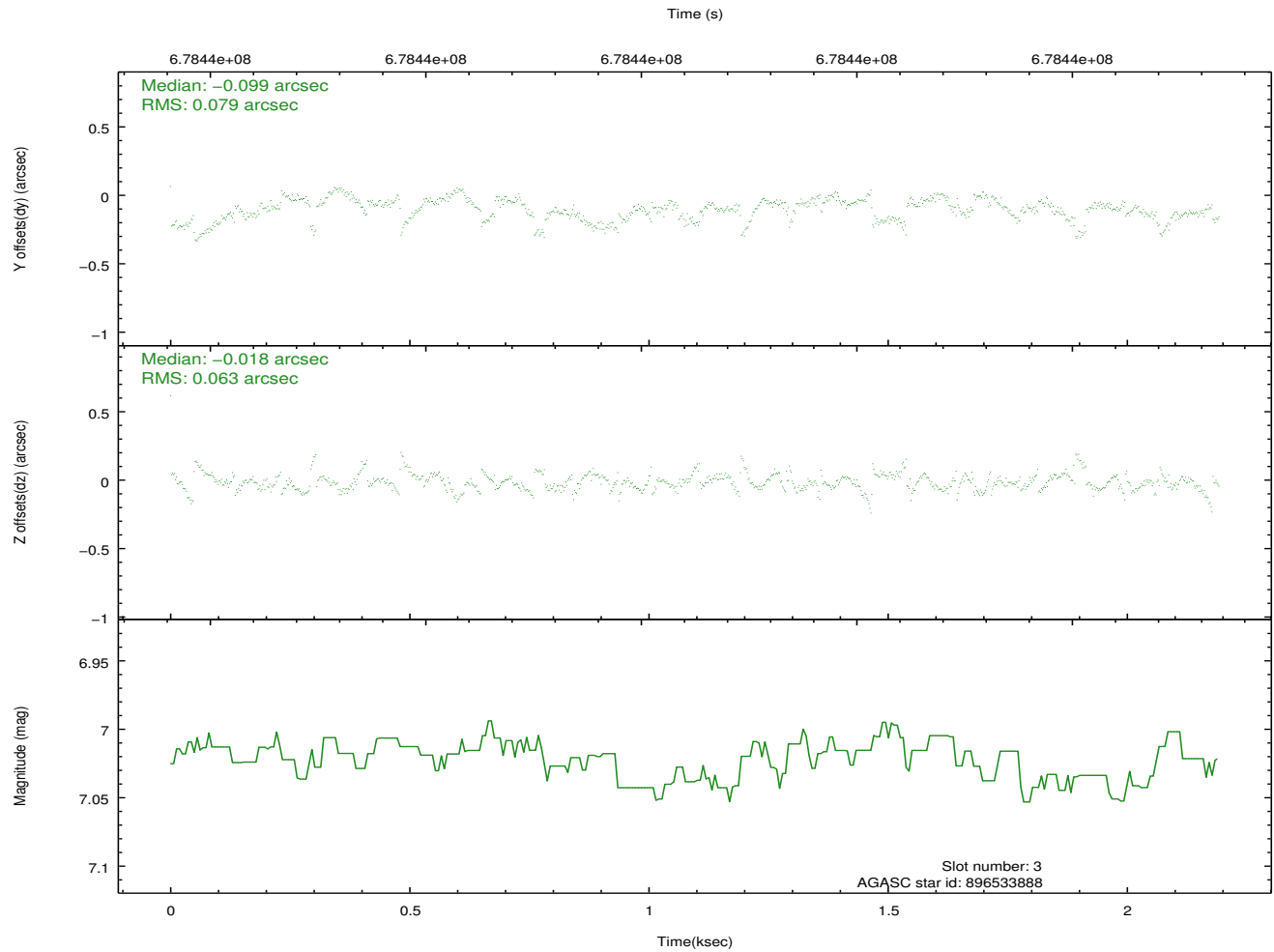
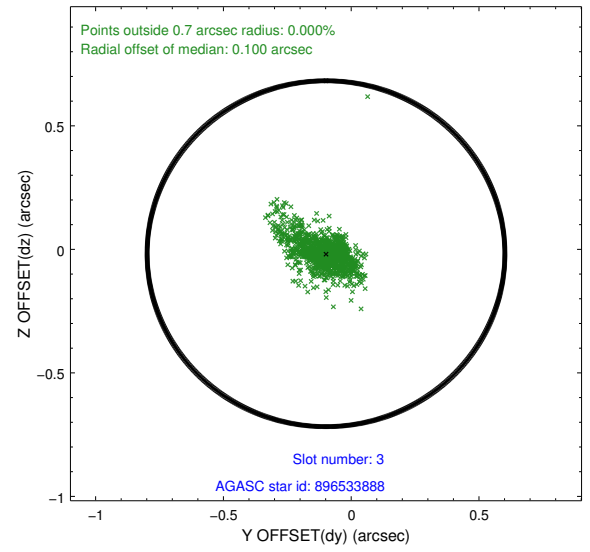
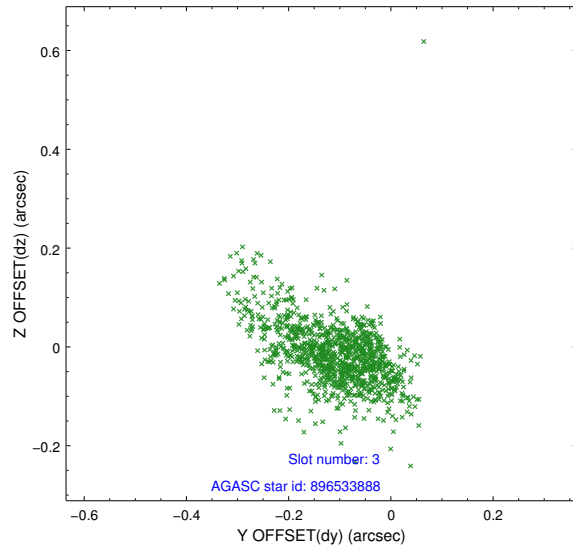


Slot Statistics

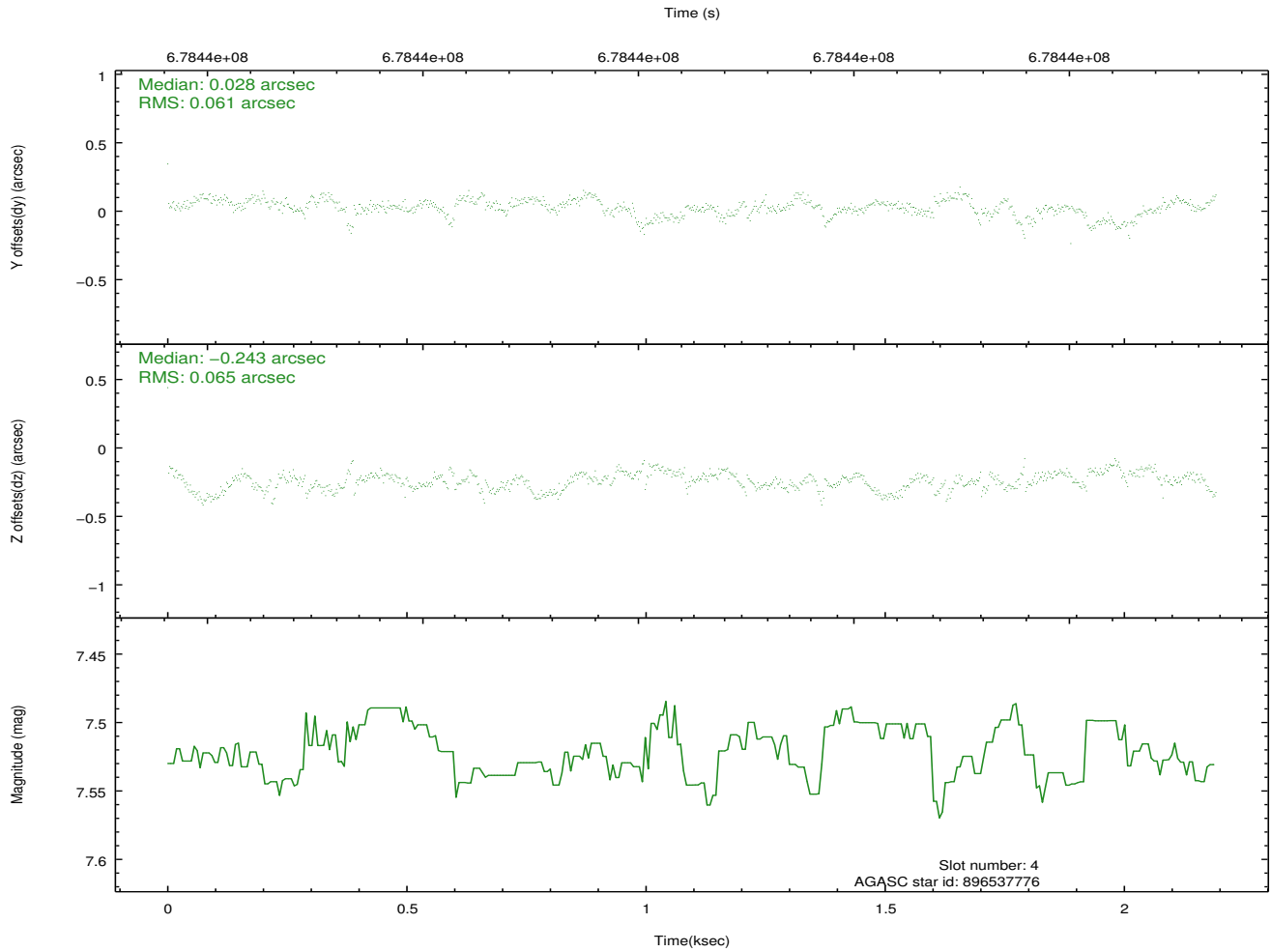
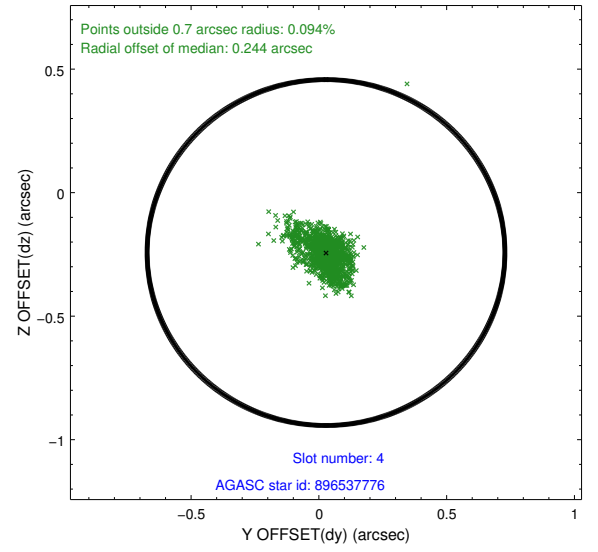
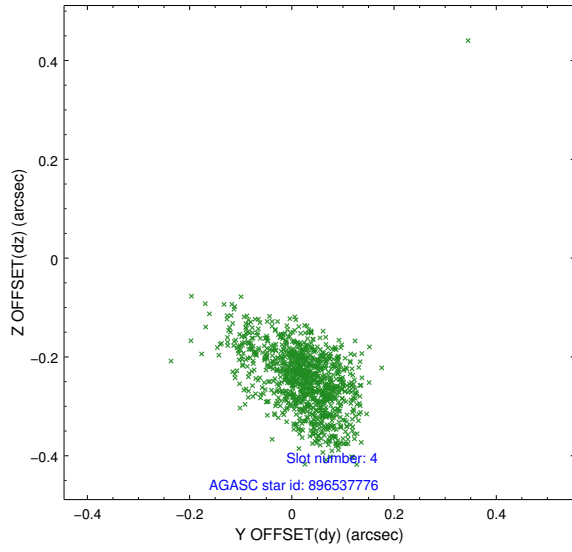
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	535	1.000	0.157	0.016	0.009	0.016	0.000000	0.000000	919.86	-845
1	FID		ACIS-I-2	7.07	535	1.000	-0.323	-0.213	0.008	0.012	0.000000	0.000000	-773.07	-853
2	FID		ACIS-I-6	7.18	534	1.000	0.075	0.264	0.008	0.016	0.000000	0.000000	384.14	1695
3	GUIDE	used	896533888	7.02	1070	1.000	-0.099	-0.018	0.096	0.186	266.666434	-29.392757	-1535.21	1172
4	GUIDE	used	896537776	7.52	1069	1.000	0.028	-0.243	0.090	0.152	266.655684	-29.665673	-676.78	696
5	GUIDE	used	896541168	8.16	1070	1.000	0.031	0.111	0.099	0.154	266.319970	-29.850801	-557.18	-541
6	GUIDE	used	896541360	7.71	1069	1.000	0.126	-0.046	0.100	0.173	266.684478	-29.453744	-1314.46	1122
7	GUIDE	used	966924920	8.10	1069	1.000	-0.062	0.188	0.134	0.231	265.875401	-30.176961	-132.89	-2306

2.4 Star Slots

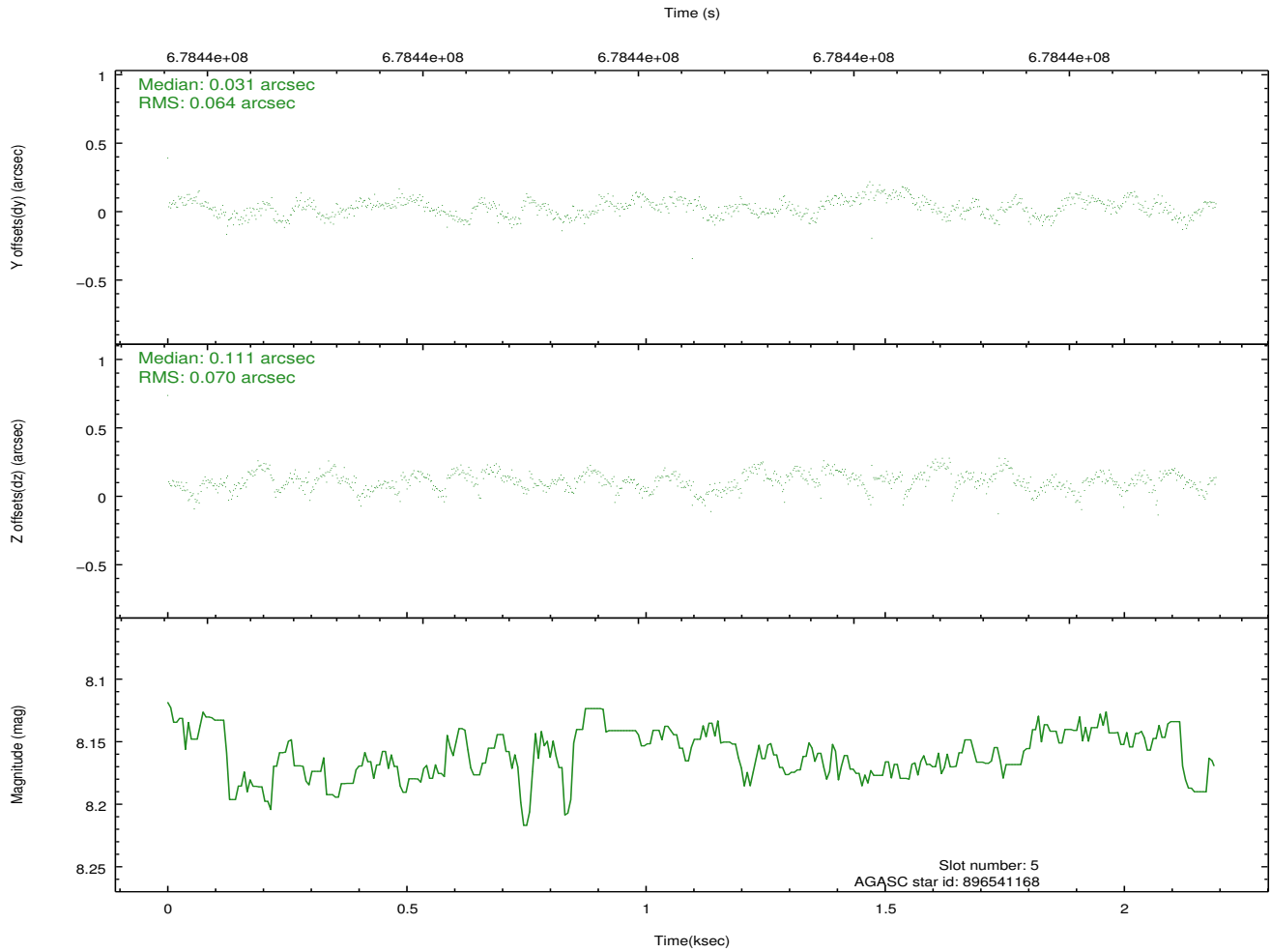
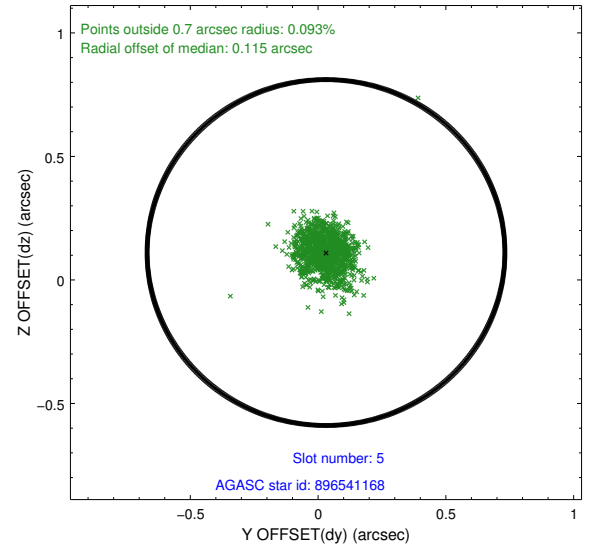
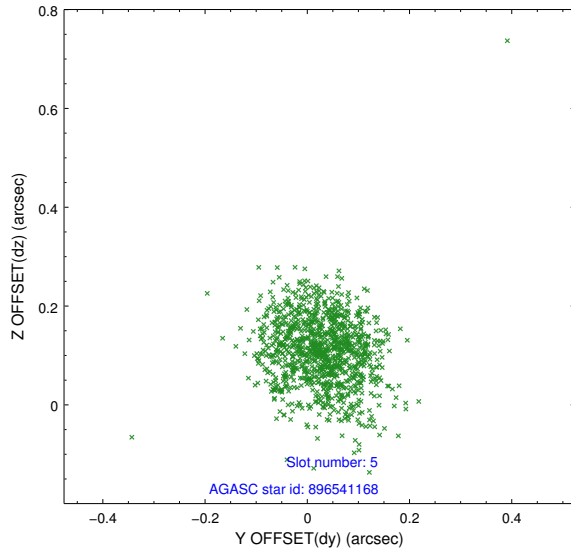
2.4.1 Slot 3



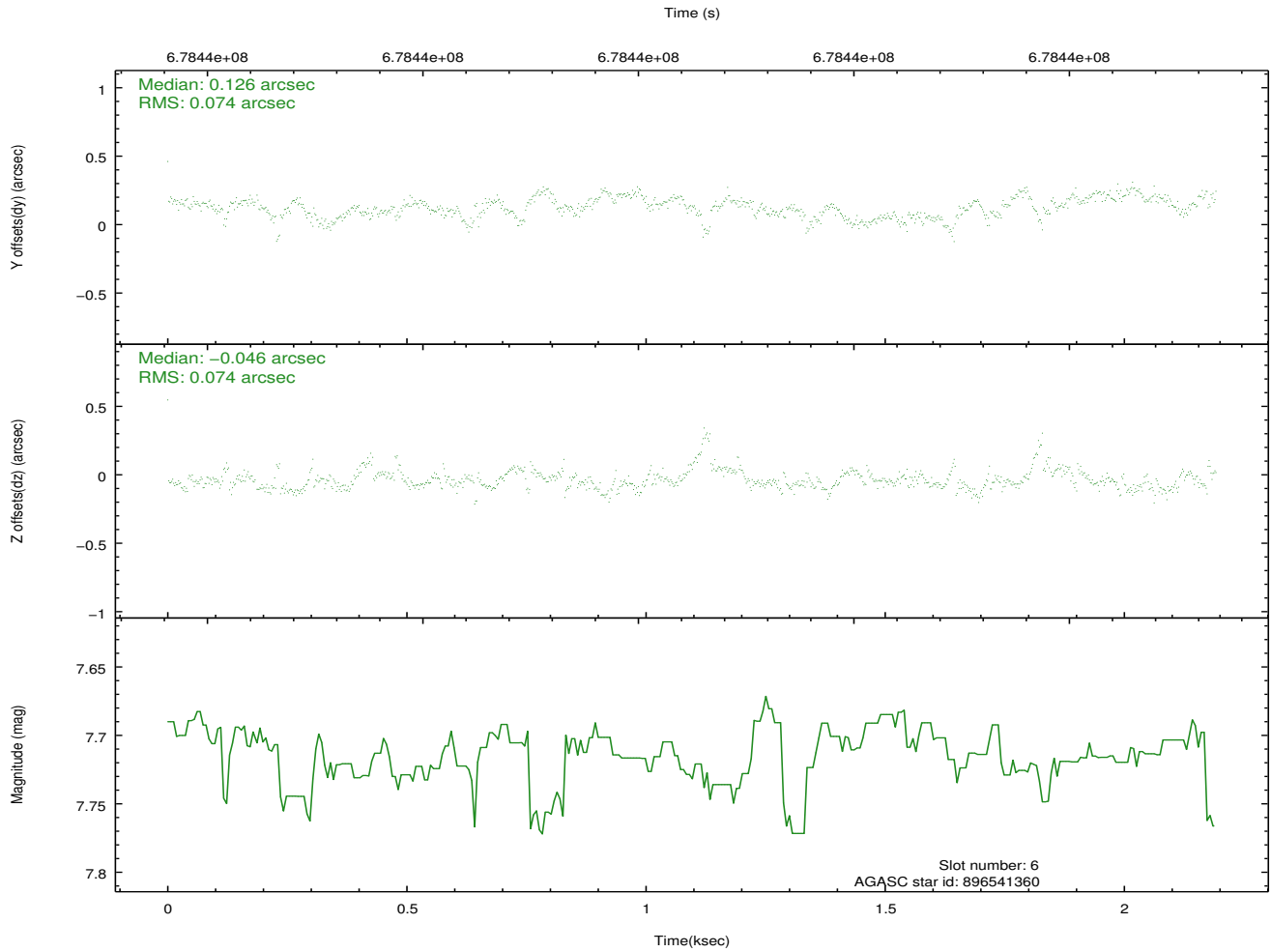
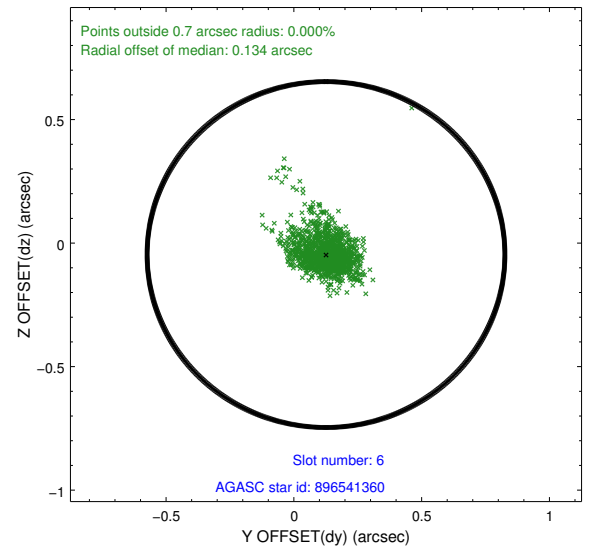
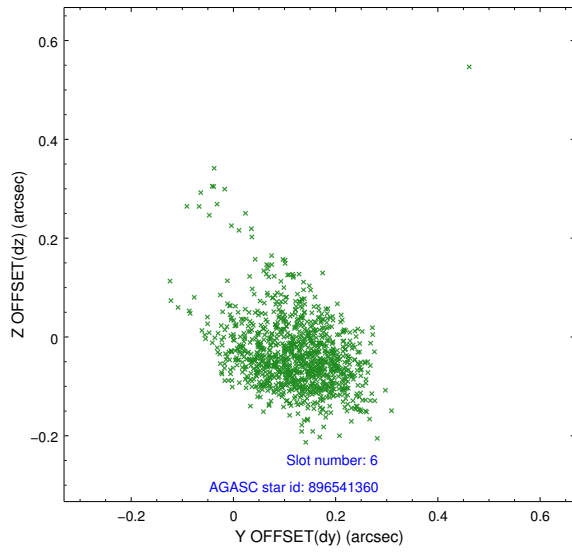
2.4.2 Slot 4



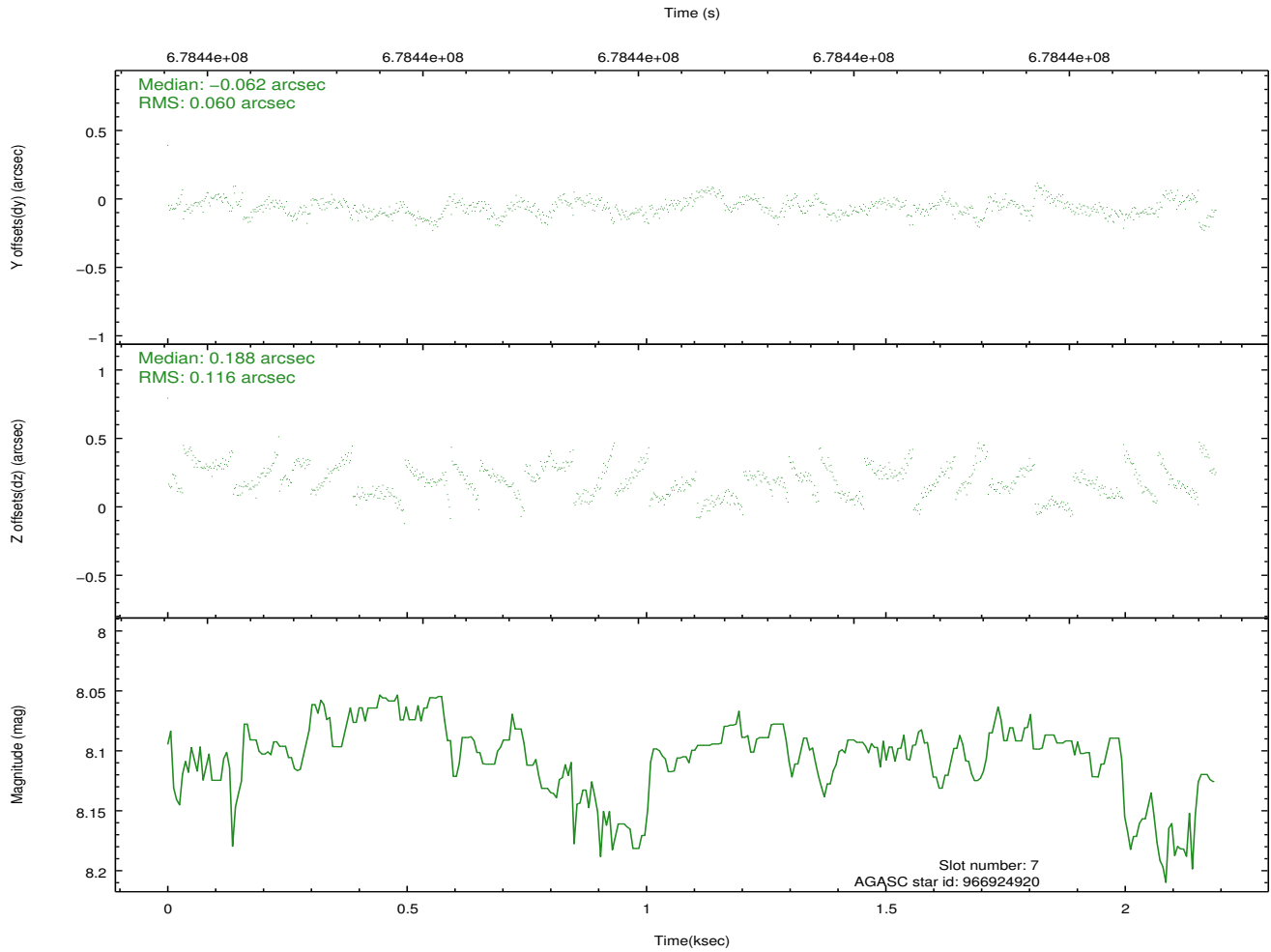
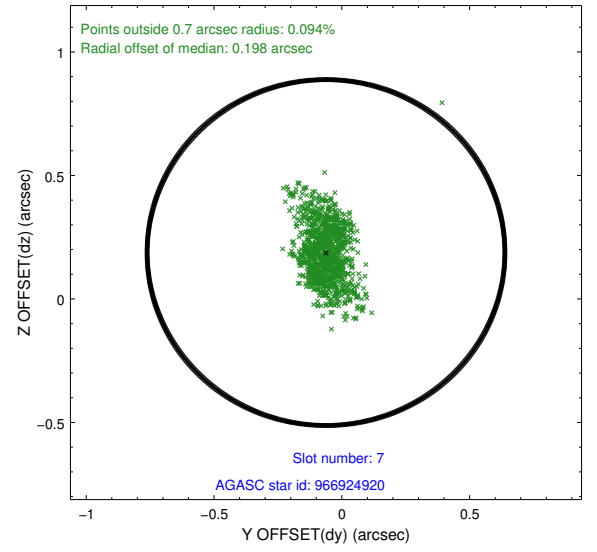
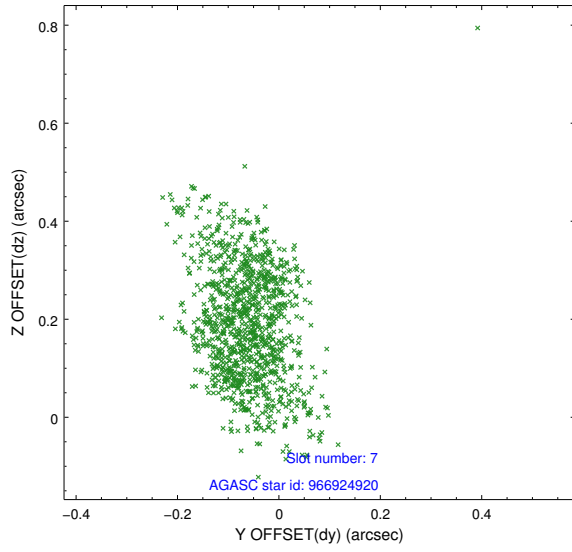
2.4.3 Slot 5



2.4.4 Slot 6

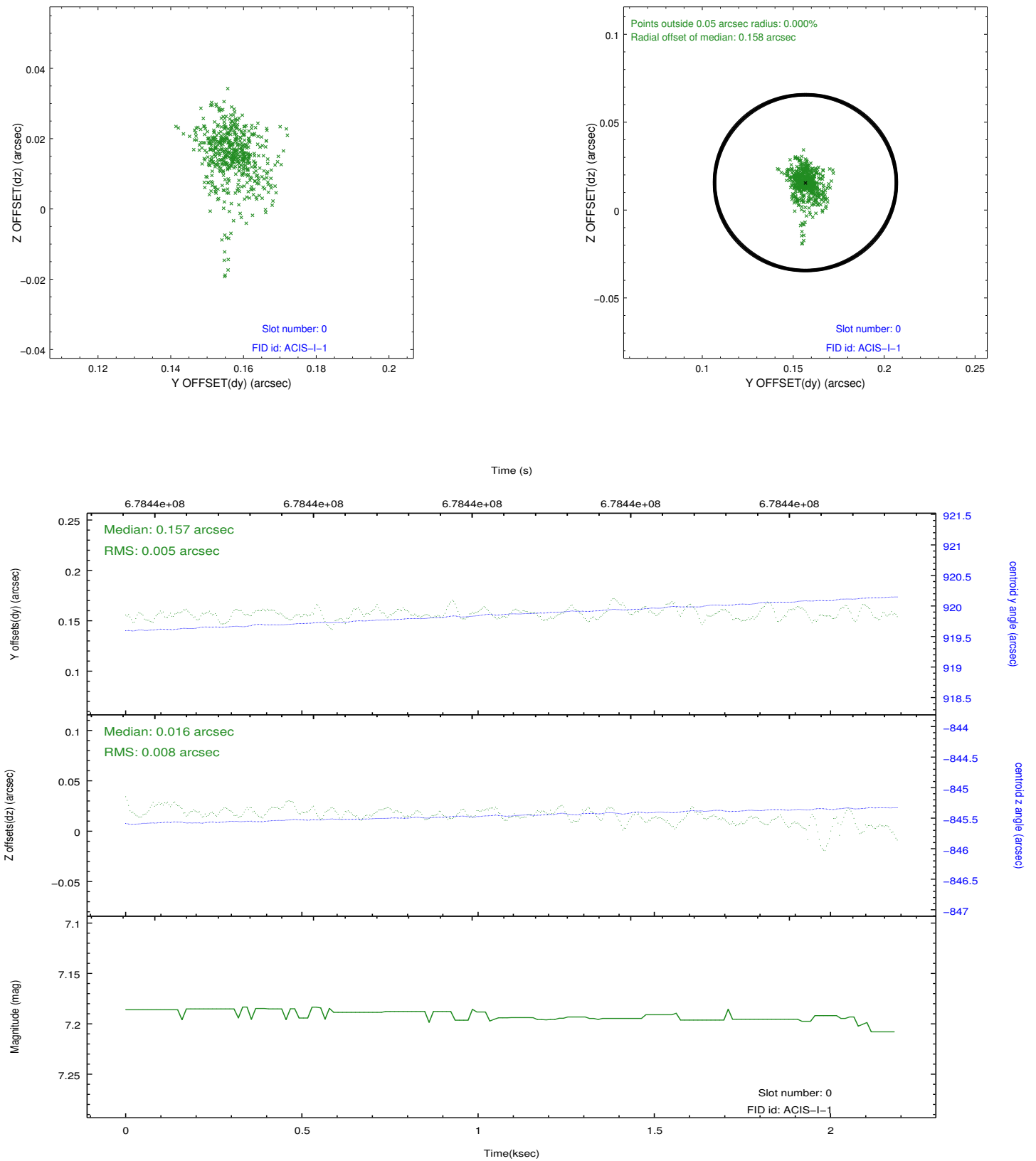


2.4.5 Slot 7

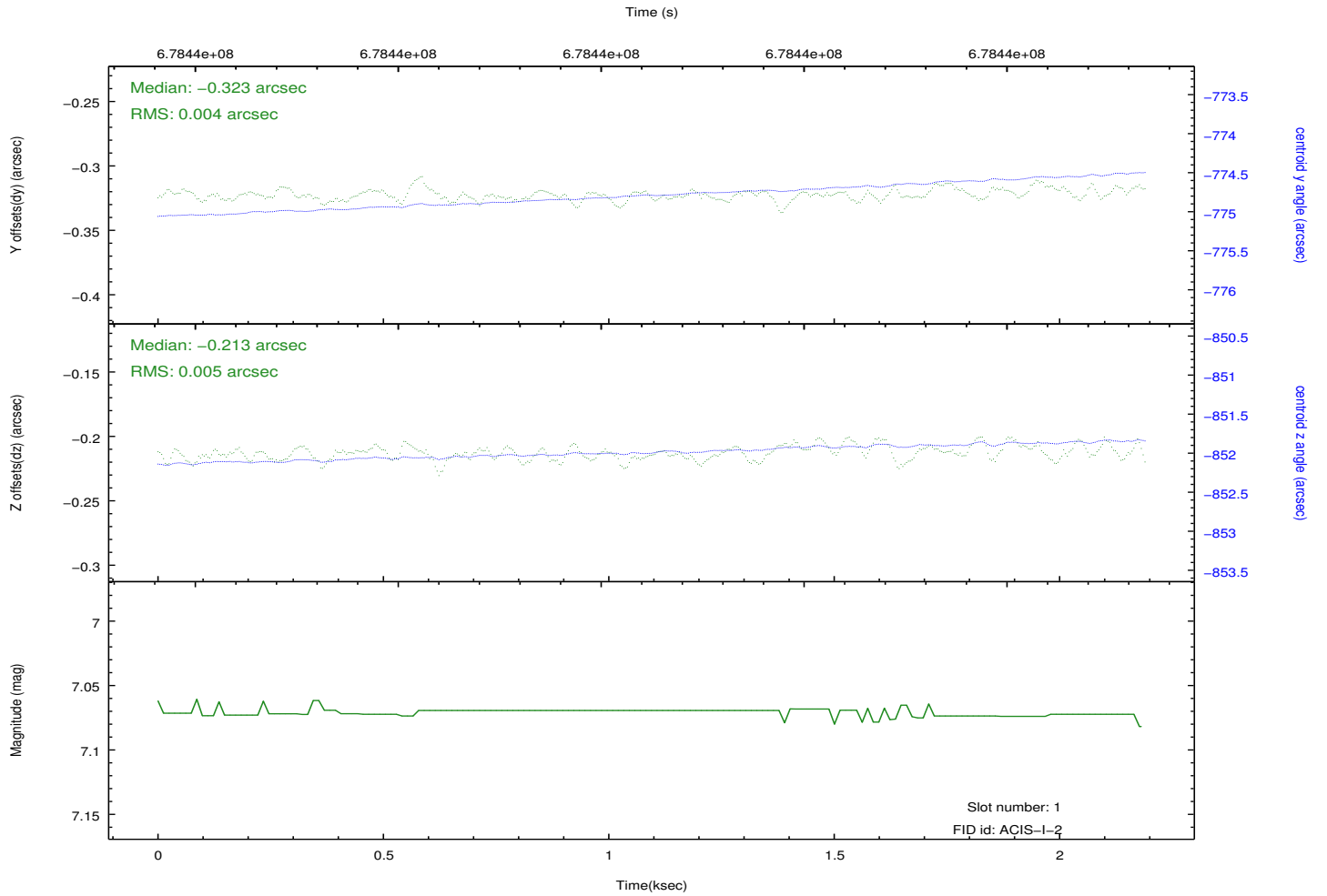
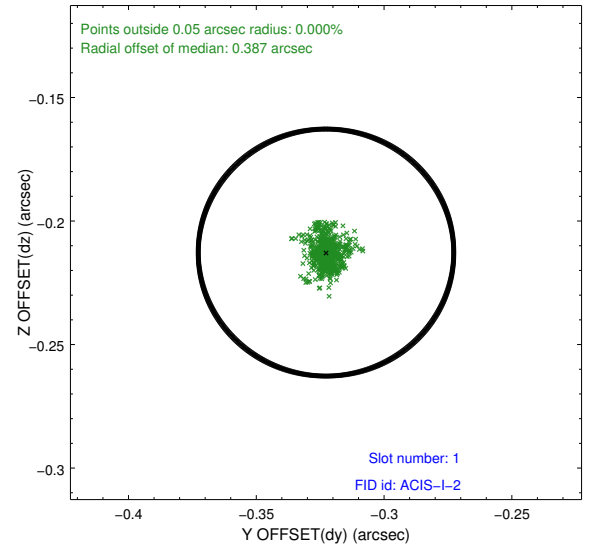
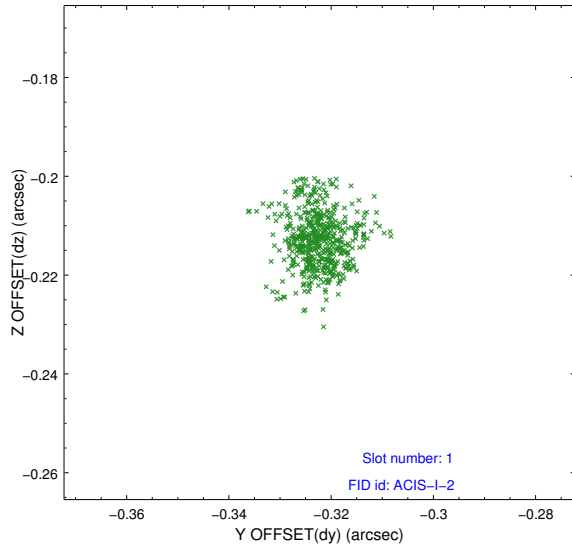


2.5 FID Slots

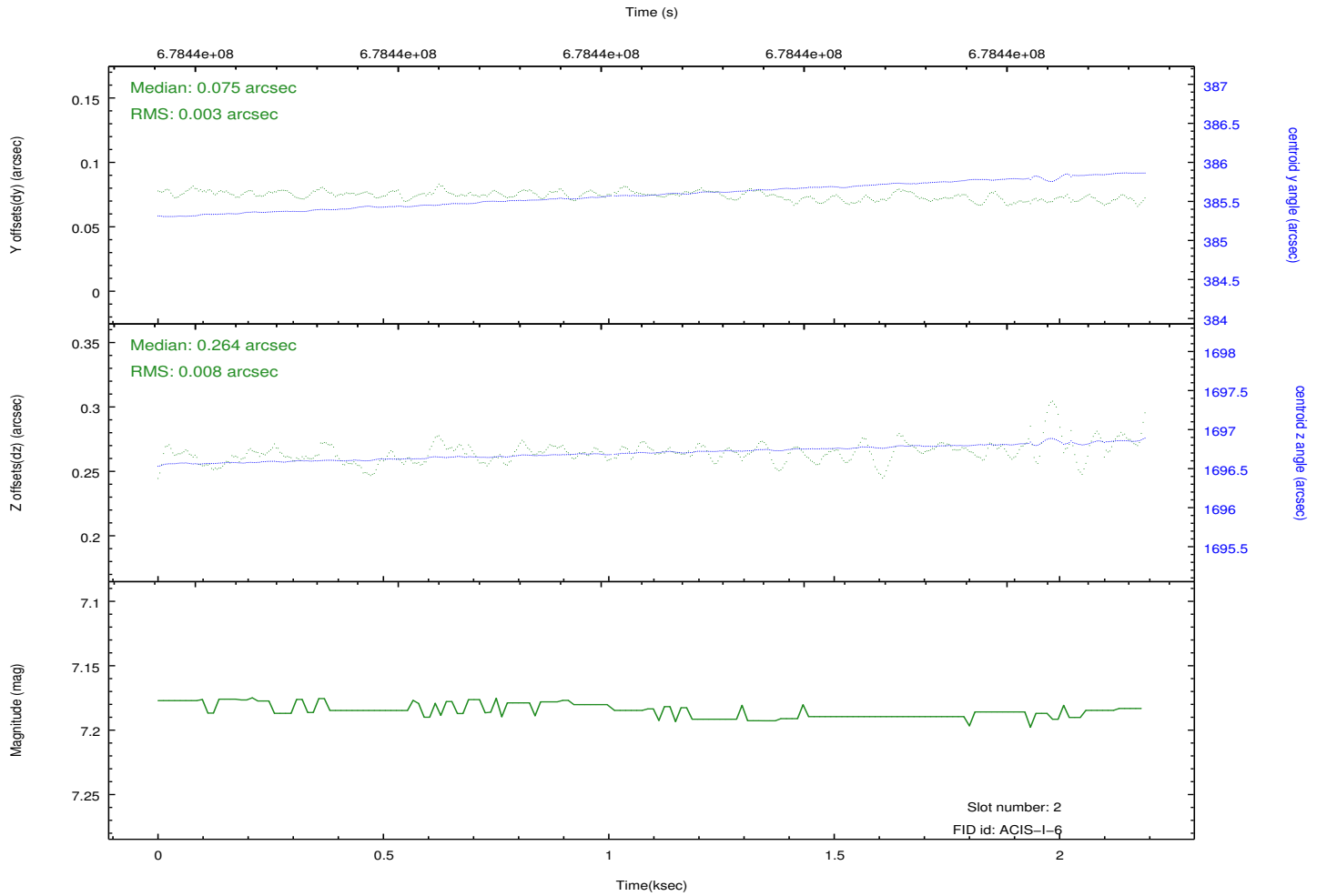
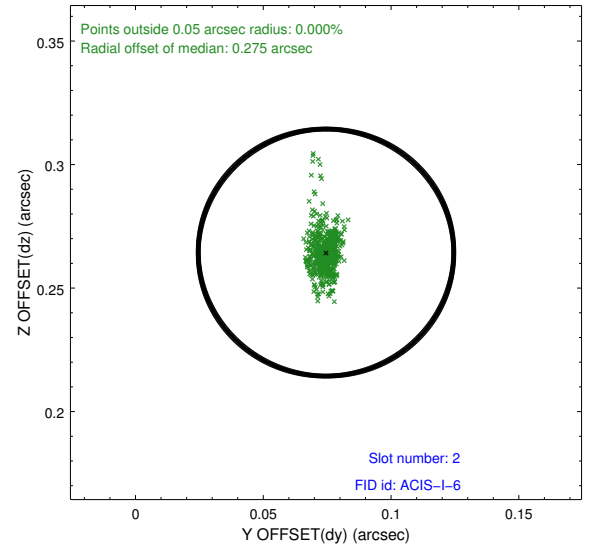
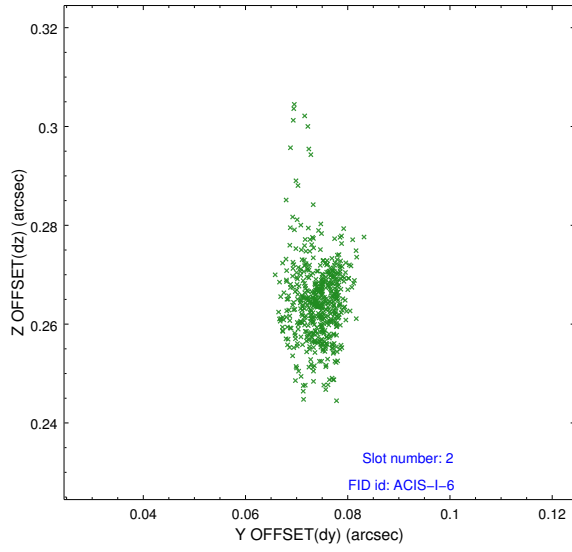
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9086689584255

A.2 Comments