

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21596 - L2 Version 1
Chandra X-Ray Center

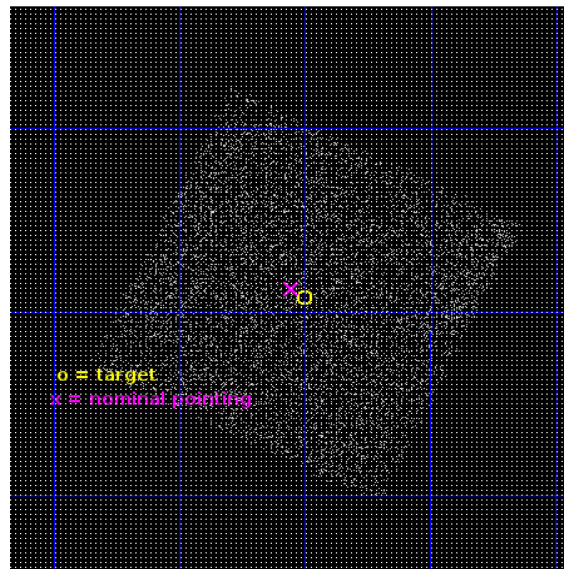
L2 Processing Date : Jul 3 2019

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

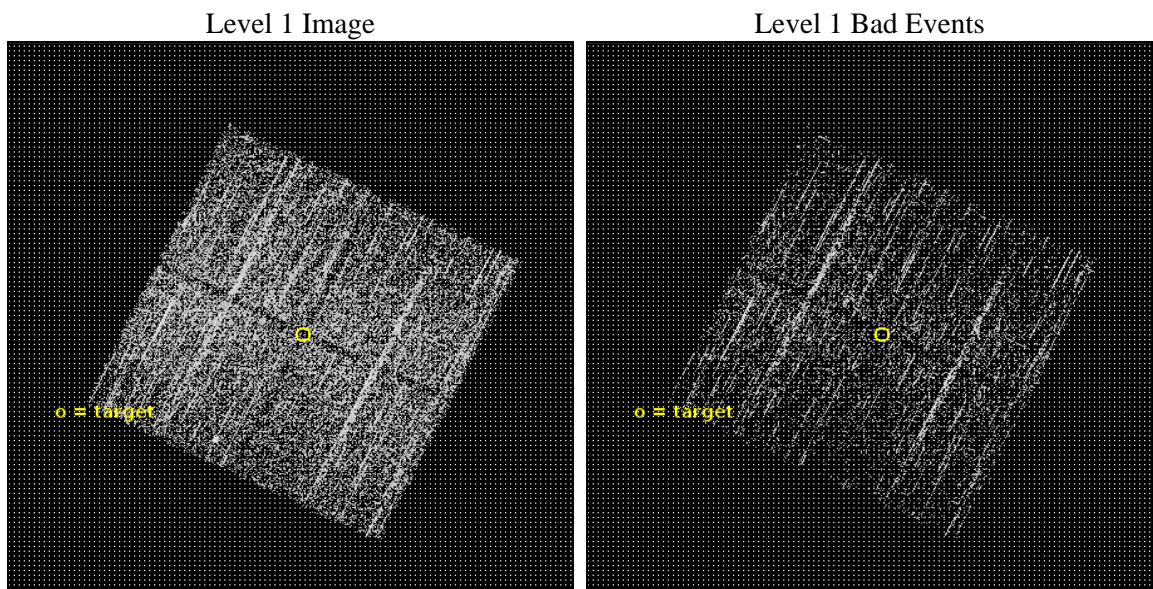
seq_num	300428	Sequence number
obs_id	21596	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.50024	Observer's specified target RA [deg]
dec_targ	-28.820641	Observer's specified target Dec [deg]
ra_nom	267.51358092685	Nominal RA [deg]
dec_nom	-28.812543286585	Nominal Dec [deg]
roll_nom	296.21488075643	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1905.3886424303	Sum of GTIs [s]
livetime	1880.4933370902	Livetime [s]
ontime0	1908.4886426926	Sum of GTIs [s]
ontime1	1905.3886424303	Sum of GTIs [s]
ontime2	1908.5707226992	Sum of GTIs [s]
ontime3	1908.6117626429	Sum of GTIs [s]
l2events	6281	Number of level 2 events



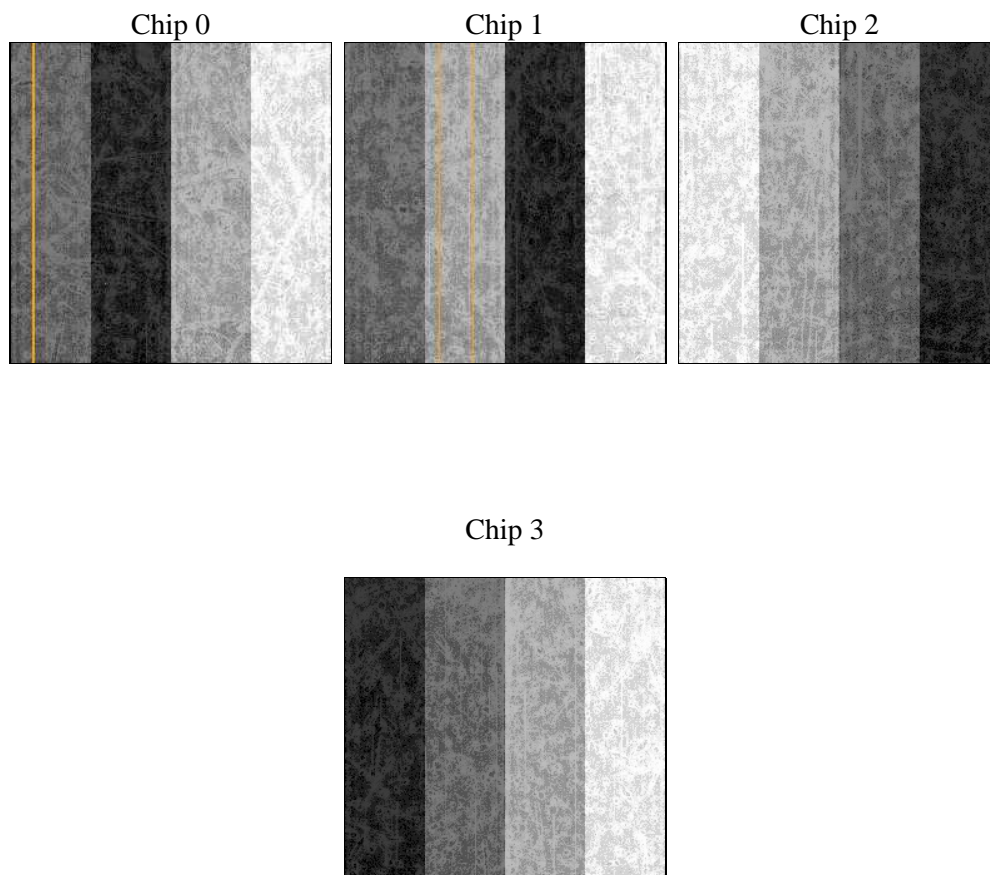
2 OBI

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	1905.3886424303	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.4886426926	Sum of GTIs [s]
date	2019-07-03T20:56:43	Date and time of file creation	ontime1	1905.3886424303	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.5707226992	Sum of GTIs [s]
			ontime3	1908.6117626429	Sum of GTIs [s]
			l1events	56341	Number of level 1 events

2.1.4 Events

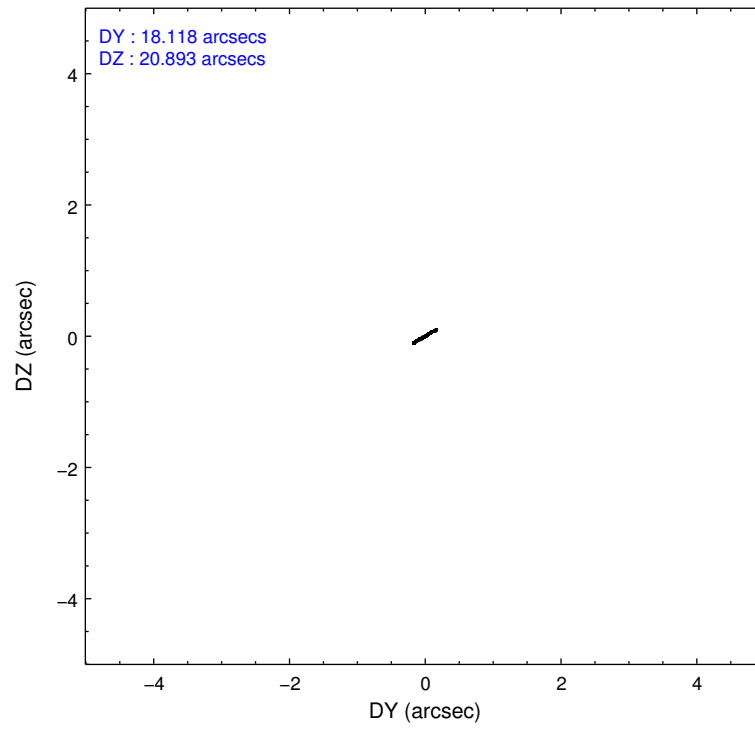
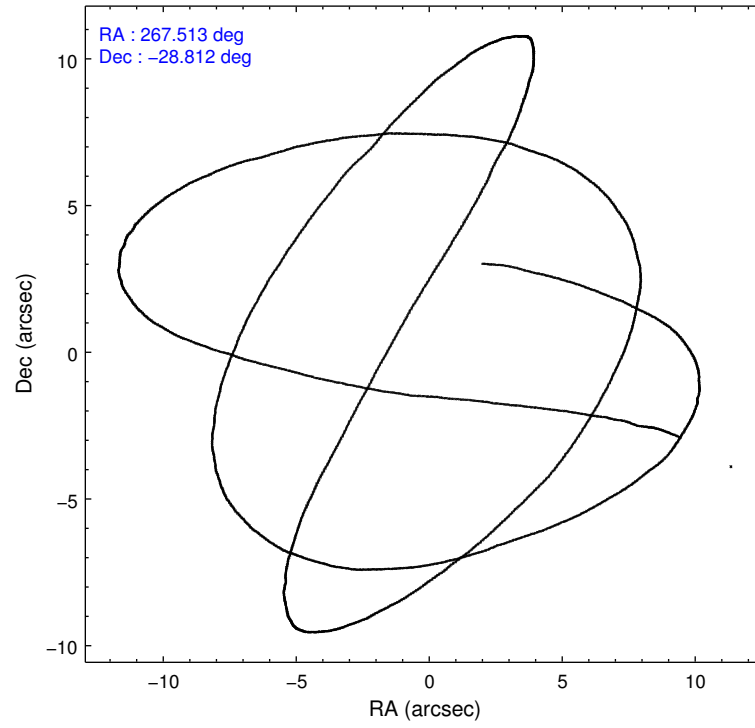
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	12454	13763	15100	15024
rejected events	10588	11831	13107	13323
rejected %	85%	85%	86%	88%

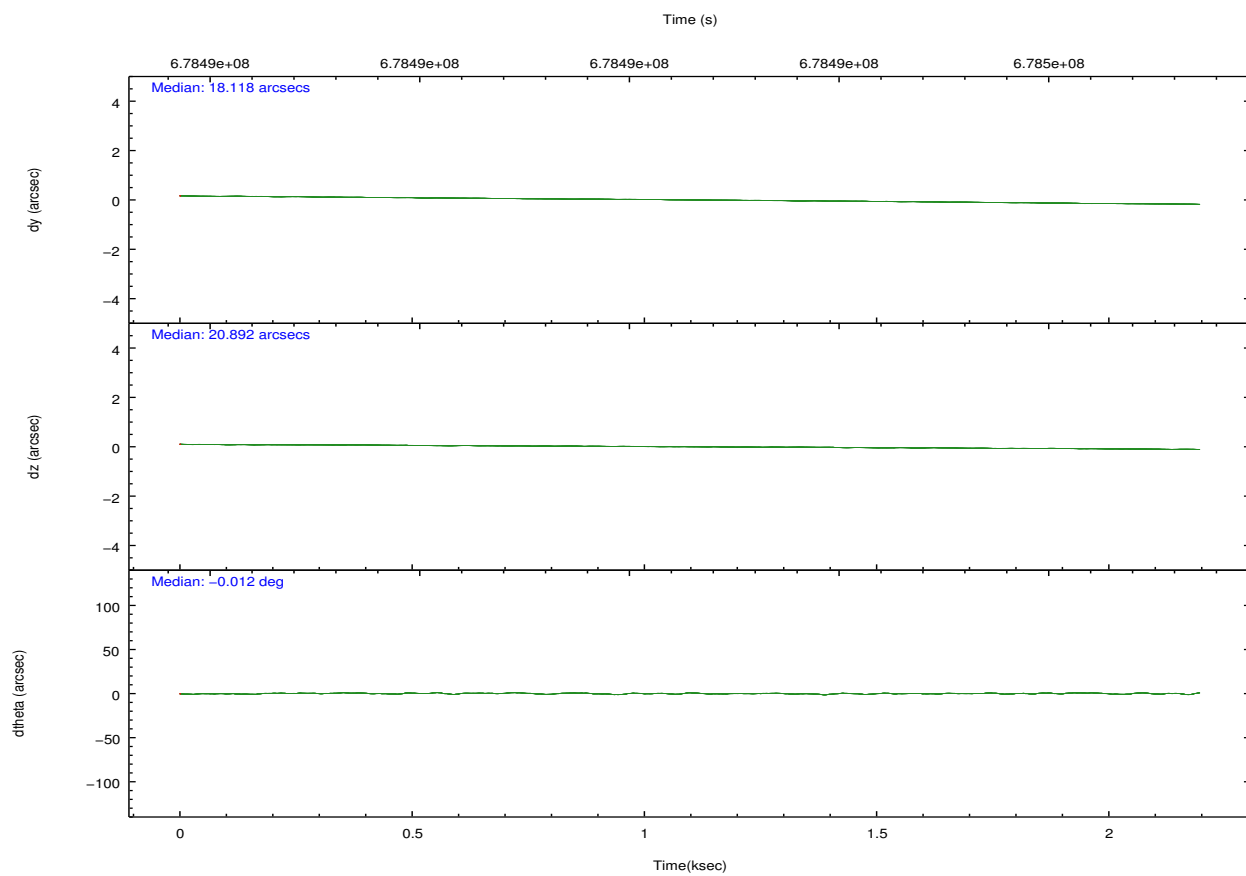
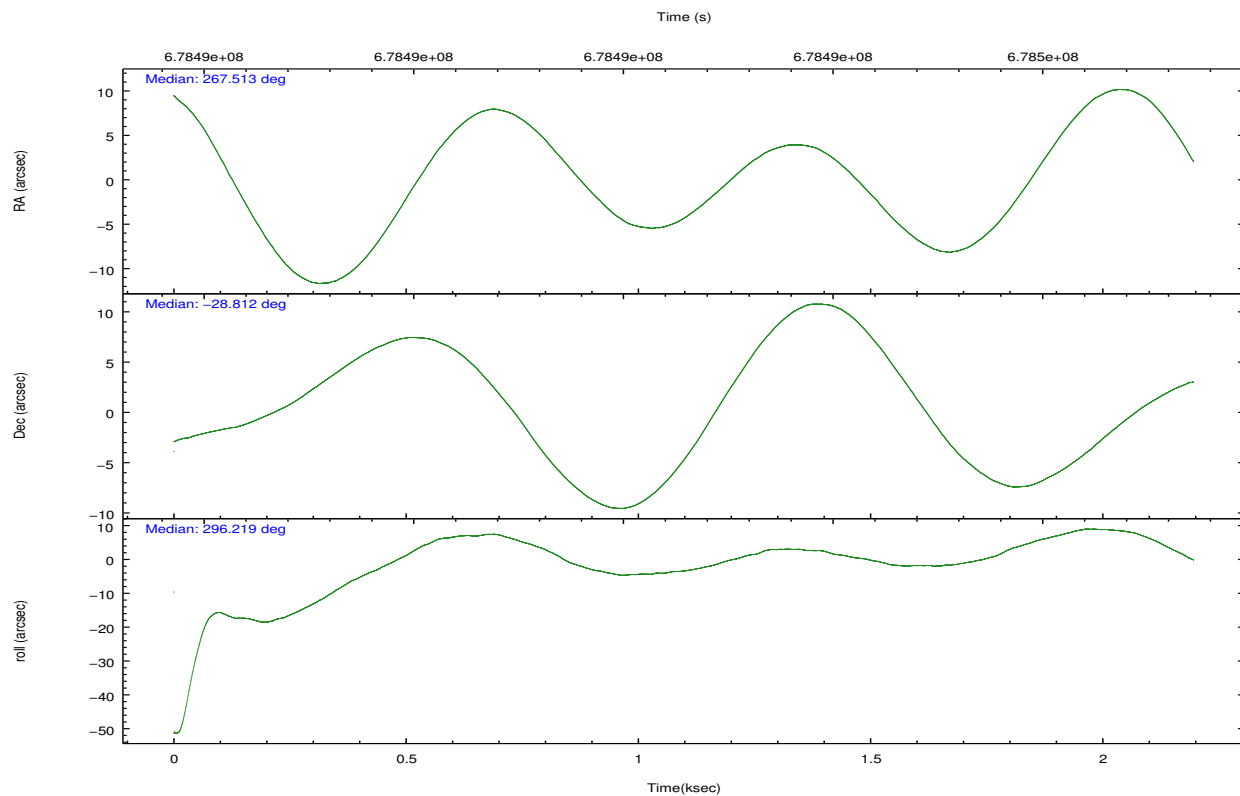
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	712	691	866	682
	5%	5%	5%	4%
grade 1 events	10	8	10	11
	0%	0%	0%	0%
grade 2 events	431	463	437	331
	3%	3%	2%	2%
grade 3 events	196	157	159	165
	1%	1%	1%	1%
grade 4 events	171	178	170	176
	1%	1%	1%	1%
grade 5 events	633	625	656	702
	5%	4%	4%	4%
grade 6 events	359	445	364	347
	2%	3%	2%	2%
grade 7 events	9942	11196	12438	12610
	79%	81%	82%	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	267.487212	267.5135809268523	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.797239	-28.81254328658544	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993720	296.2148807564336	[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)	678493240.184000	678492864.89553			
Observation start date	2019-07-02T22:19:31	2019-07-02T22:14:24			
[s] Observation end time (MET)	678495240.184000	678495374.60818			
Observation end date	2019-07-02T22:52:51	2019-07-02T22:56:14			
Read mode	TIMED	TIMED			

2.3 Aspect



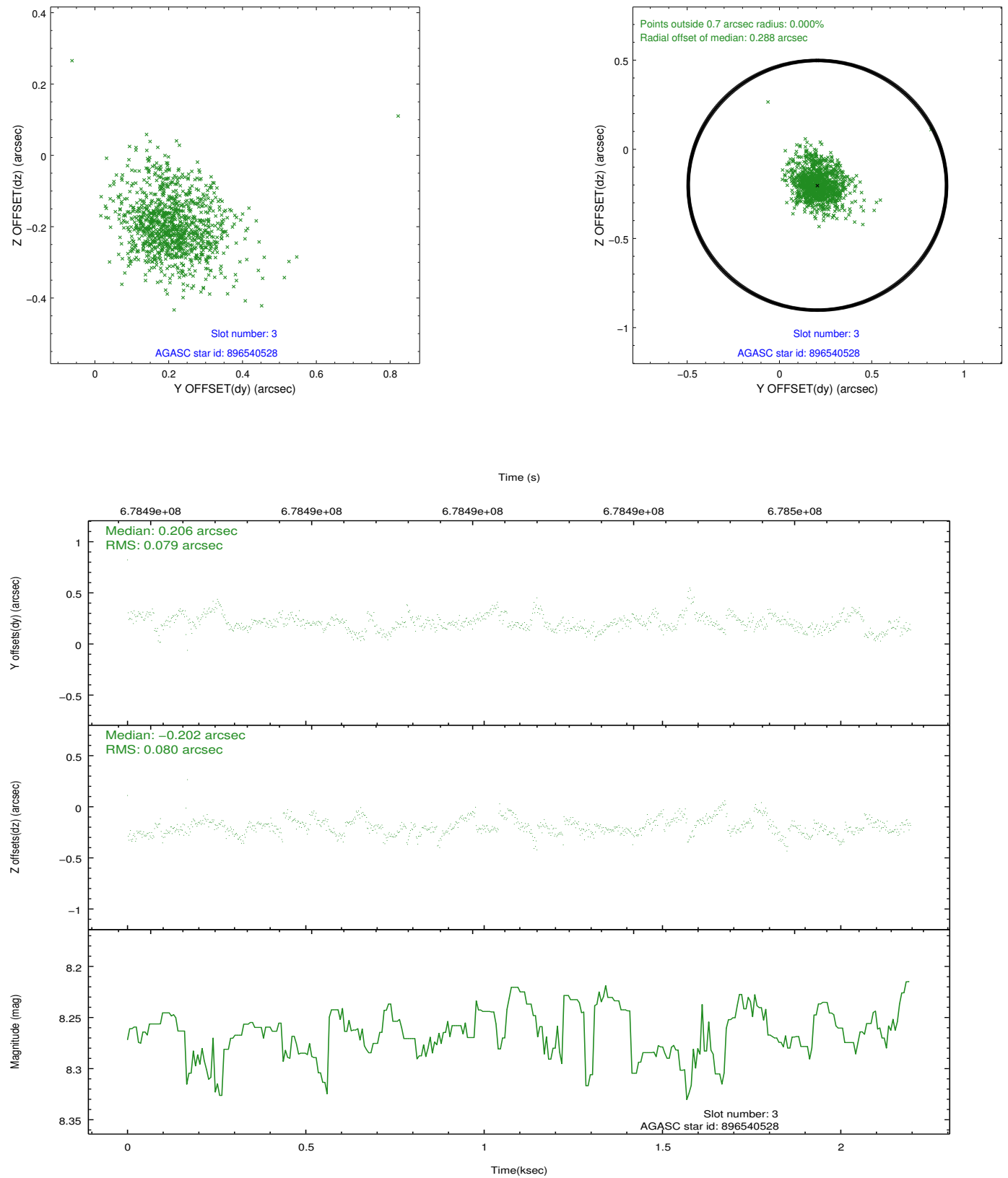


Slot Statistics

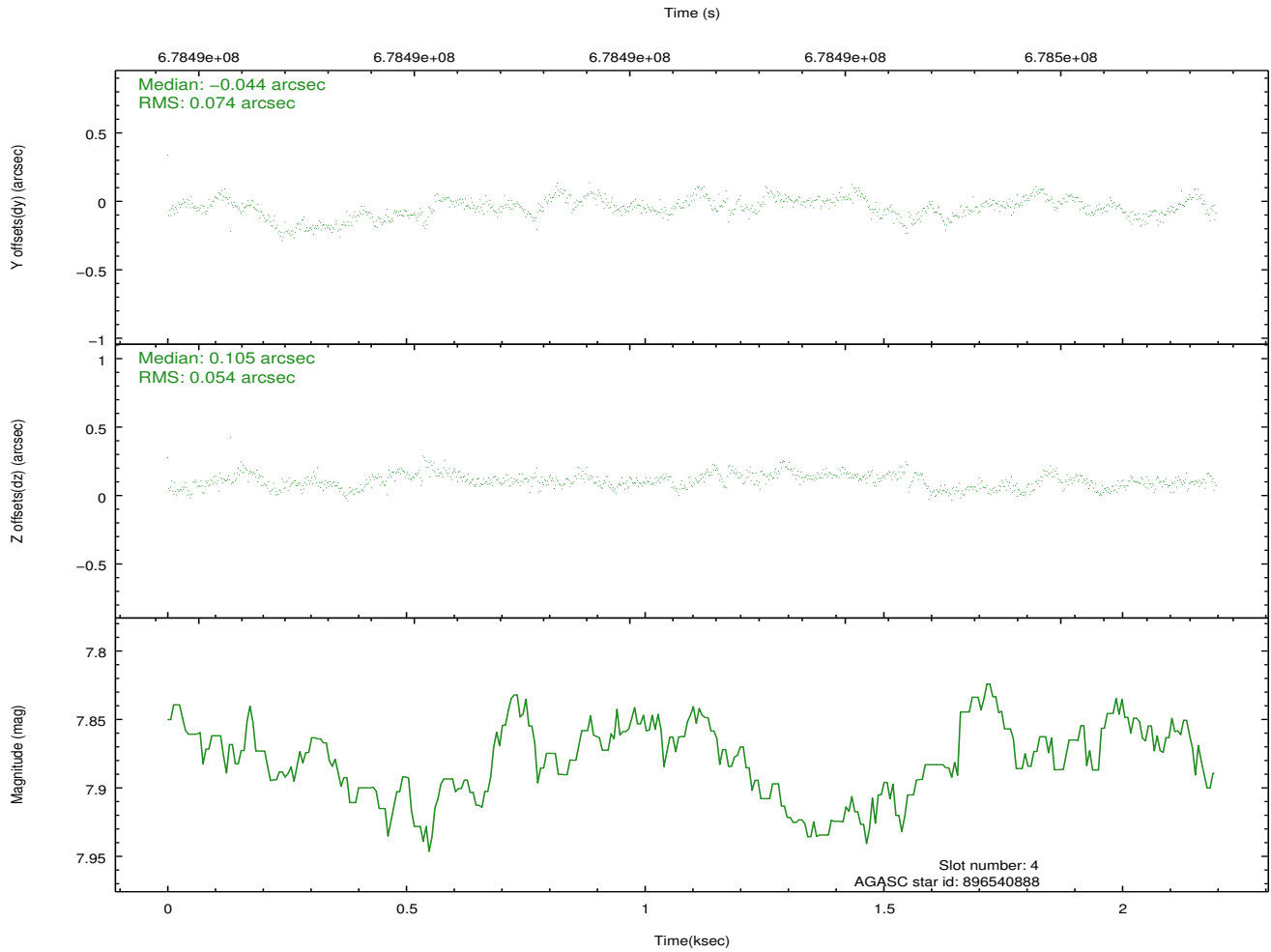
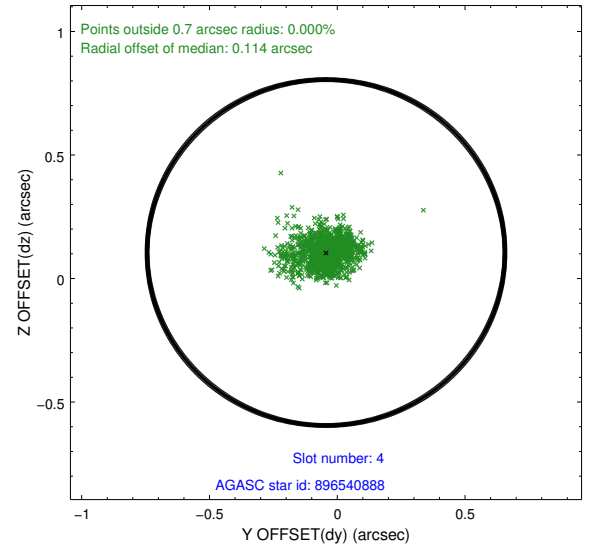
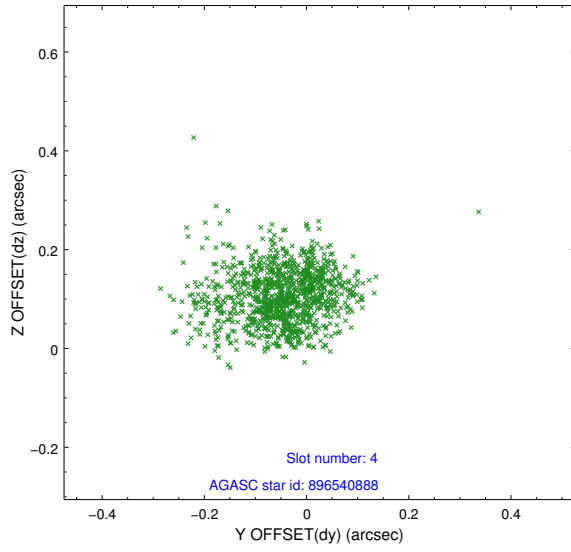
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	534	1.000	0.266	-0.271	0.006	0.011	0.000000	0.000000	921.68	-844
1	FID		ACIS-I-3	7.43	536	1.000	-0.077	0.209	0.008	0.013	0.000000	0.000000	40.49	-979
2	FID		ACIS-I-5	7.15	536	1.000	-0.279	0.134	0.007	0.014	0.000000	0.000000	-1827.32	1050
3	GUIDE	used	896540528	8.26	1072	1.000	0.206	-0.202	0.114	0.195	267.368305	-29.314773	1512.62	-1151
4	GUIDE	used	896540888	7.88	1072	1.000	-0.044	0.105	0.094	0.162	267.212234	-28.246138	-2162.61	84
5	GUIDE	used	896541576	8.20	1072	1.000	0.207	0.213	0.144	0.227	267.051055	-28.762912	-713.36	-1183
6	GUIDE	used	896543712	8.22	1071	1.000	-0.353	-0.335	0.088	0.147	267.764551	-28.659720	-59.49	1002
7	GUIDE	used	896538208	7.93	1071	1.000	-0.014	0.225	0.105	0.161	267.176969	-28.671626	-834.18	-681

2.4 Star Slots

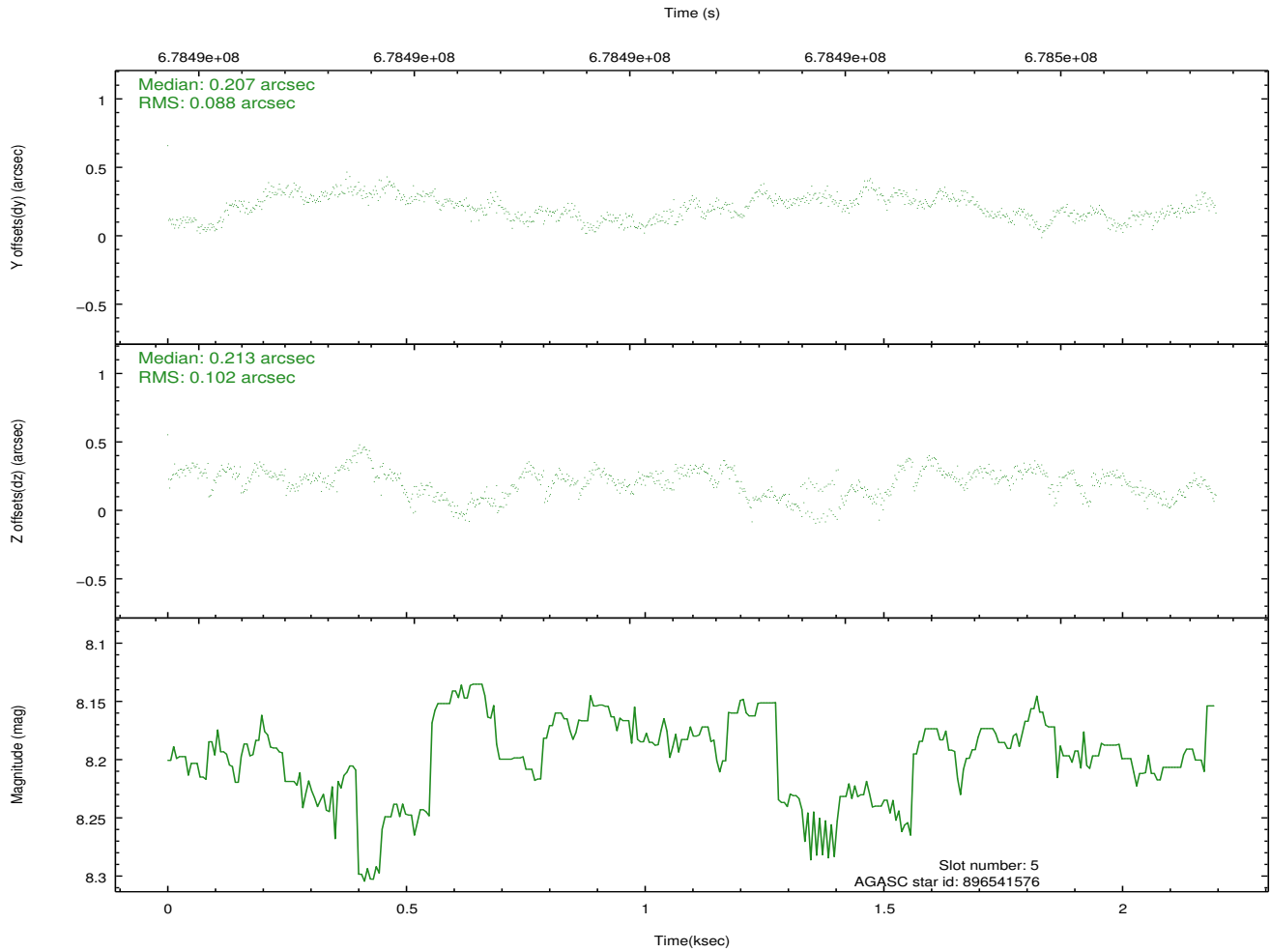
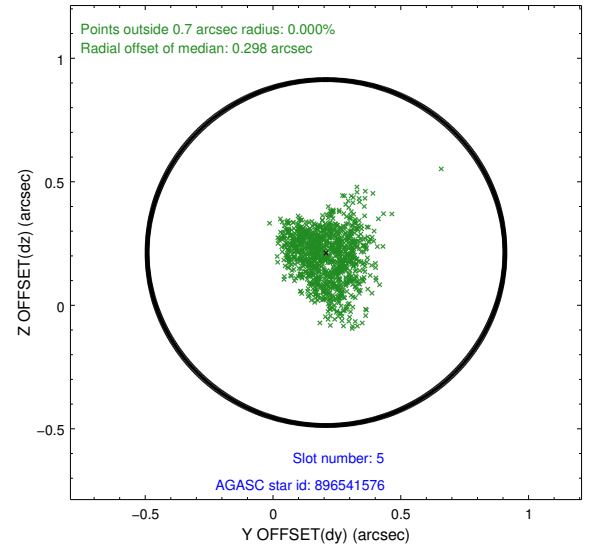
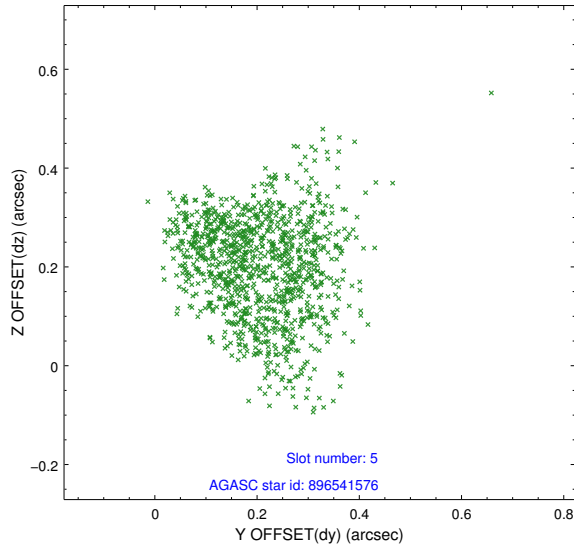
2.4.1 Slot 3



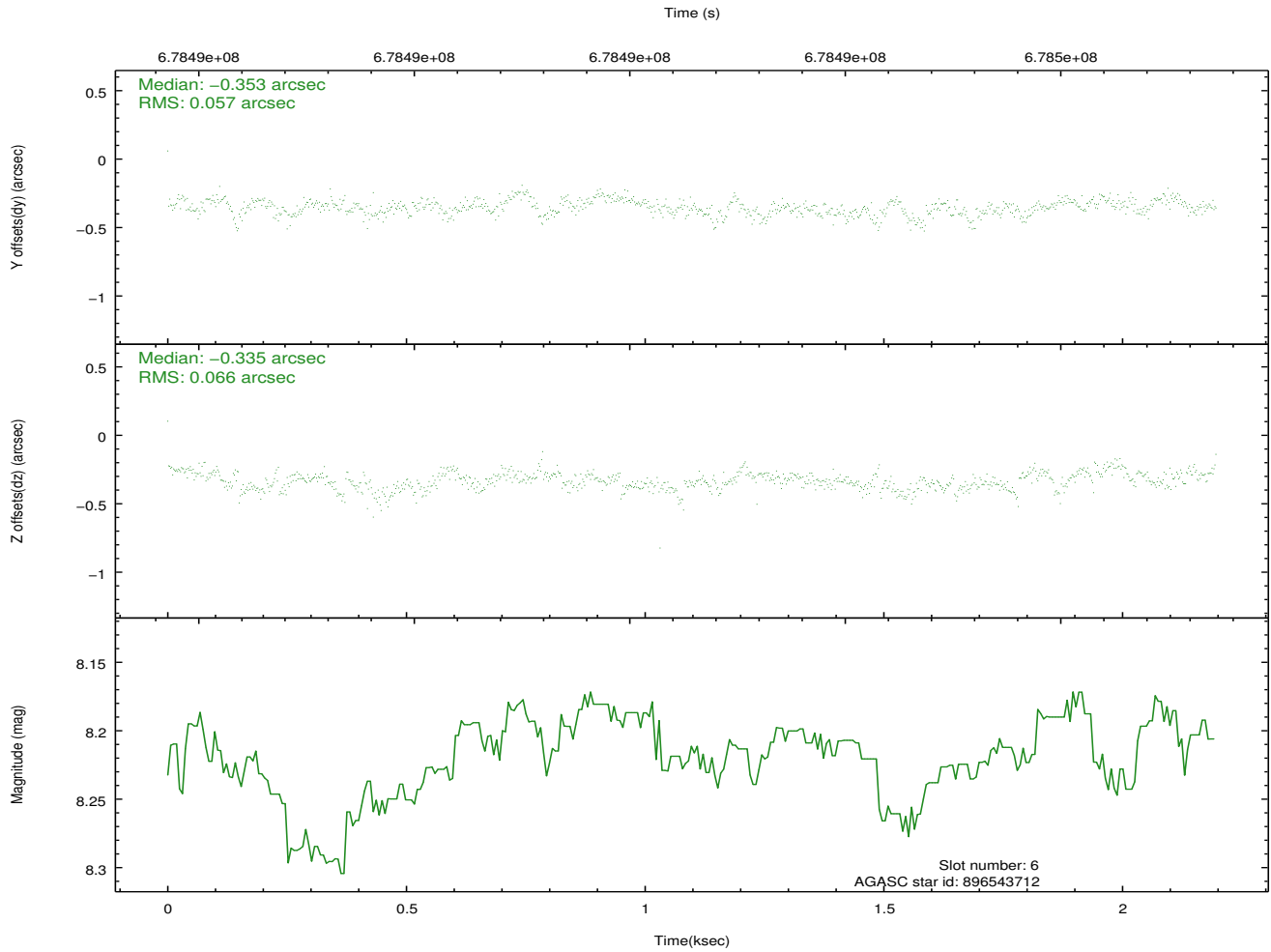
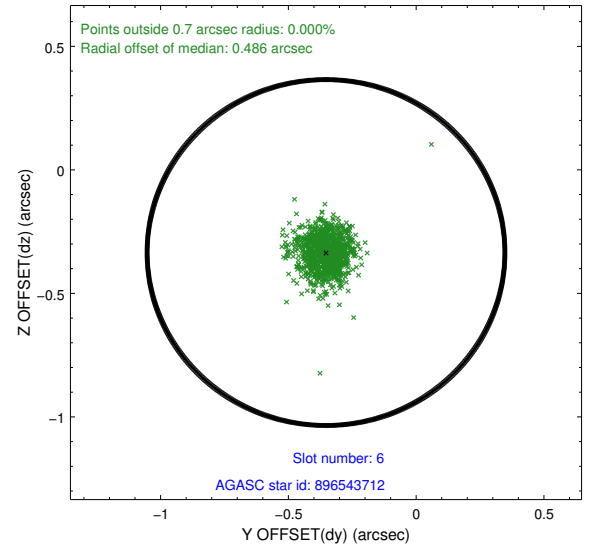
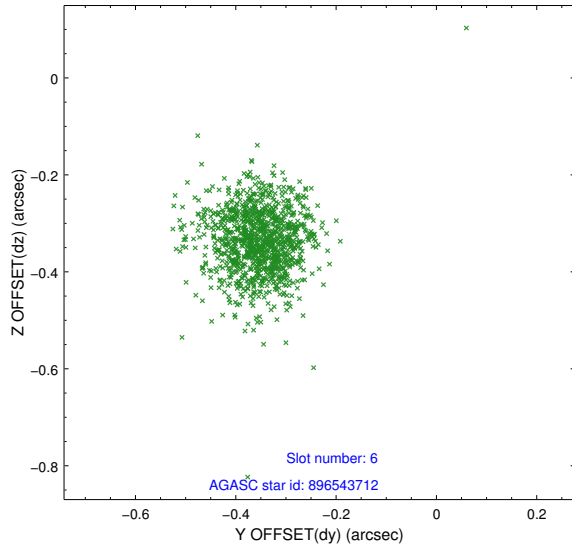
2.4.2 Slot 4



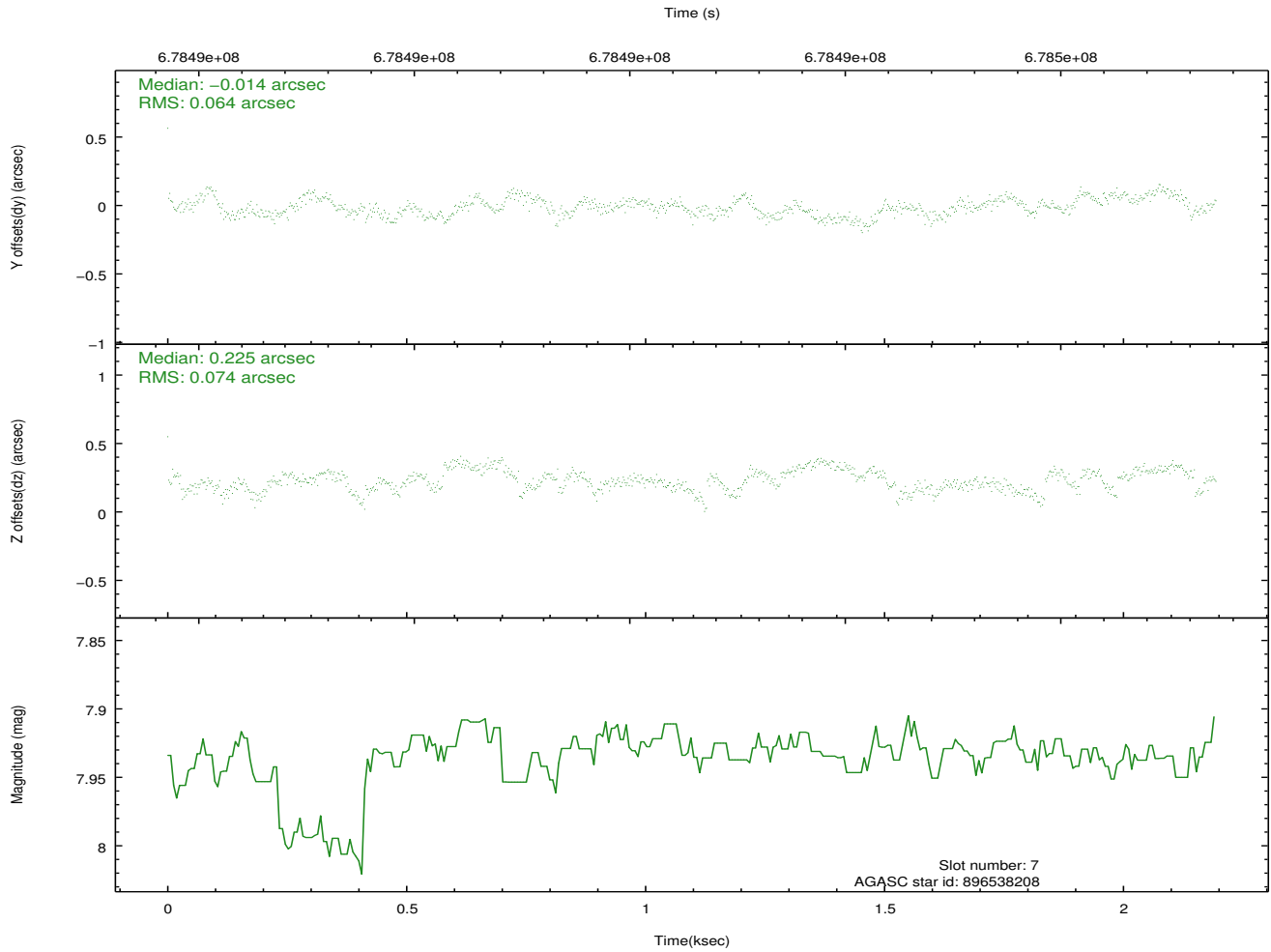
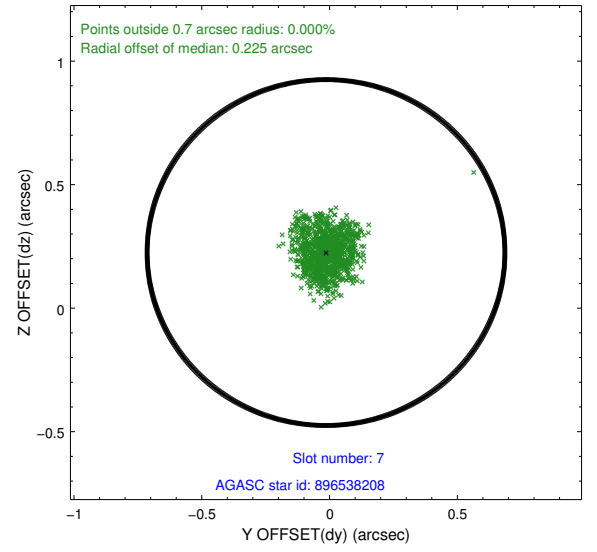
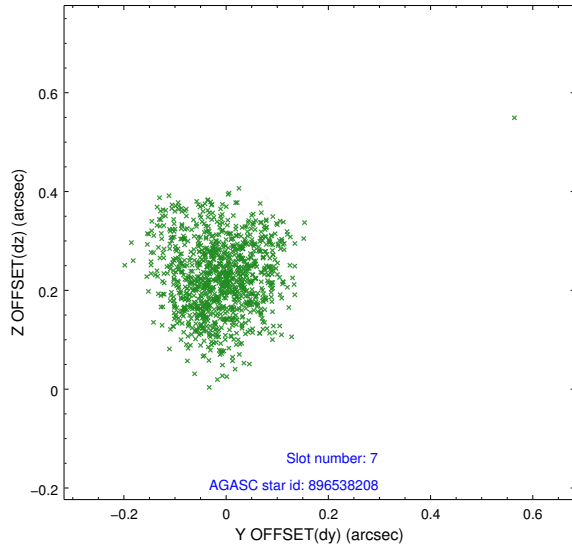
2.4.3 Slot 5



2.4.4 Slot 6

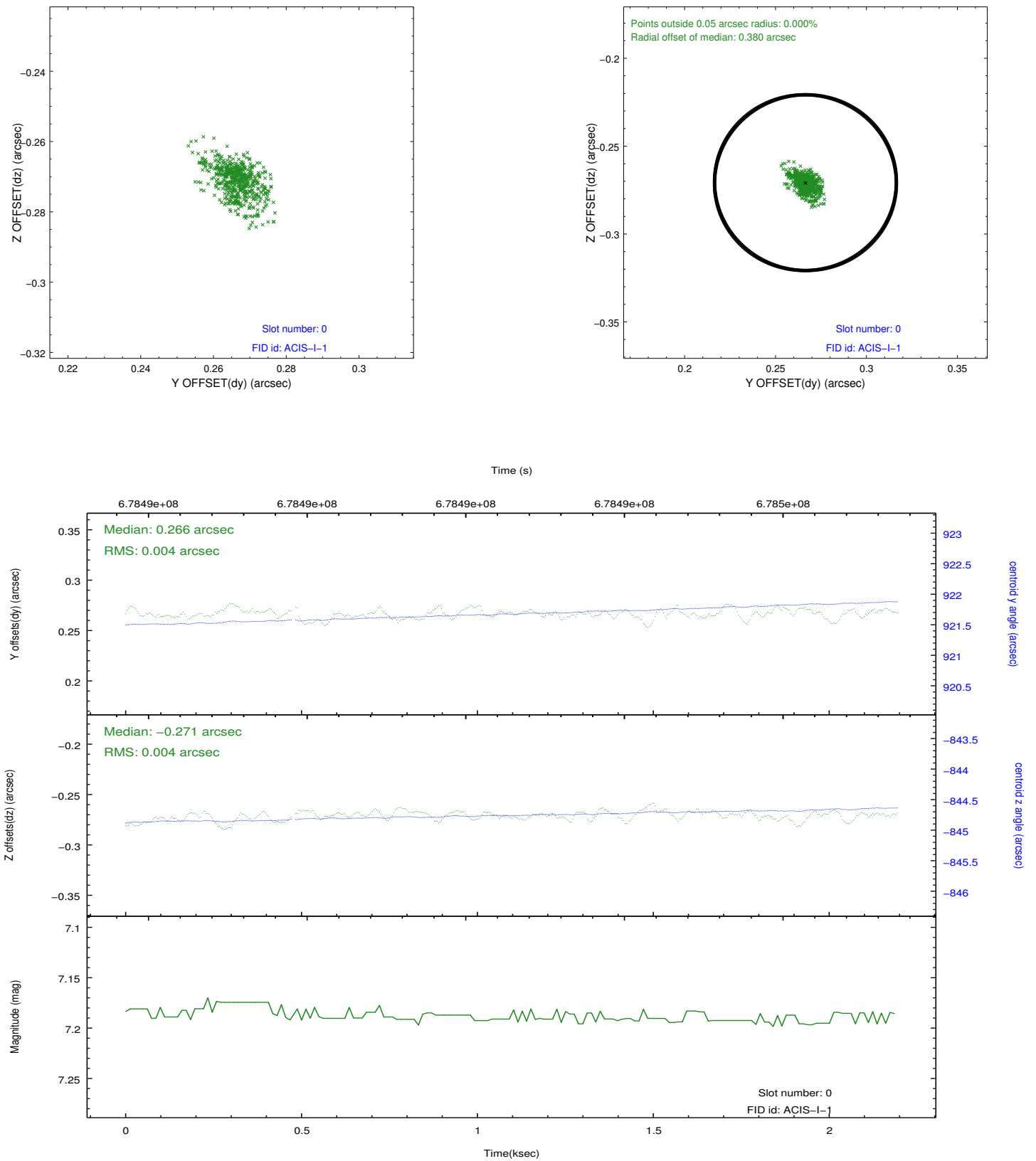


2.4.5 Slot 7

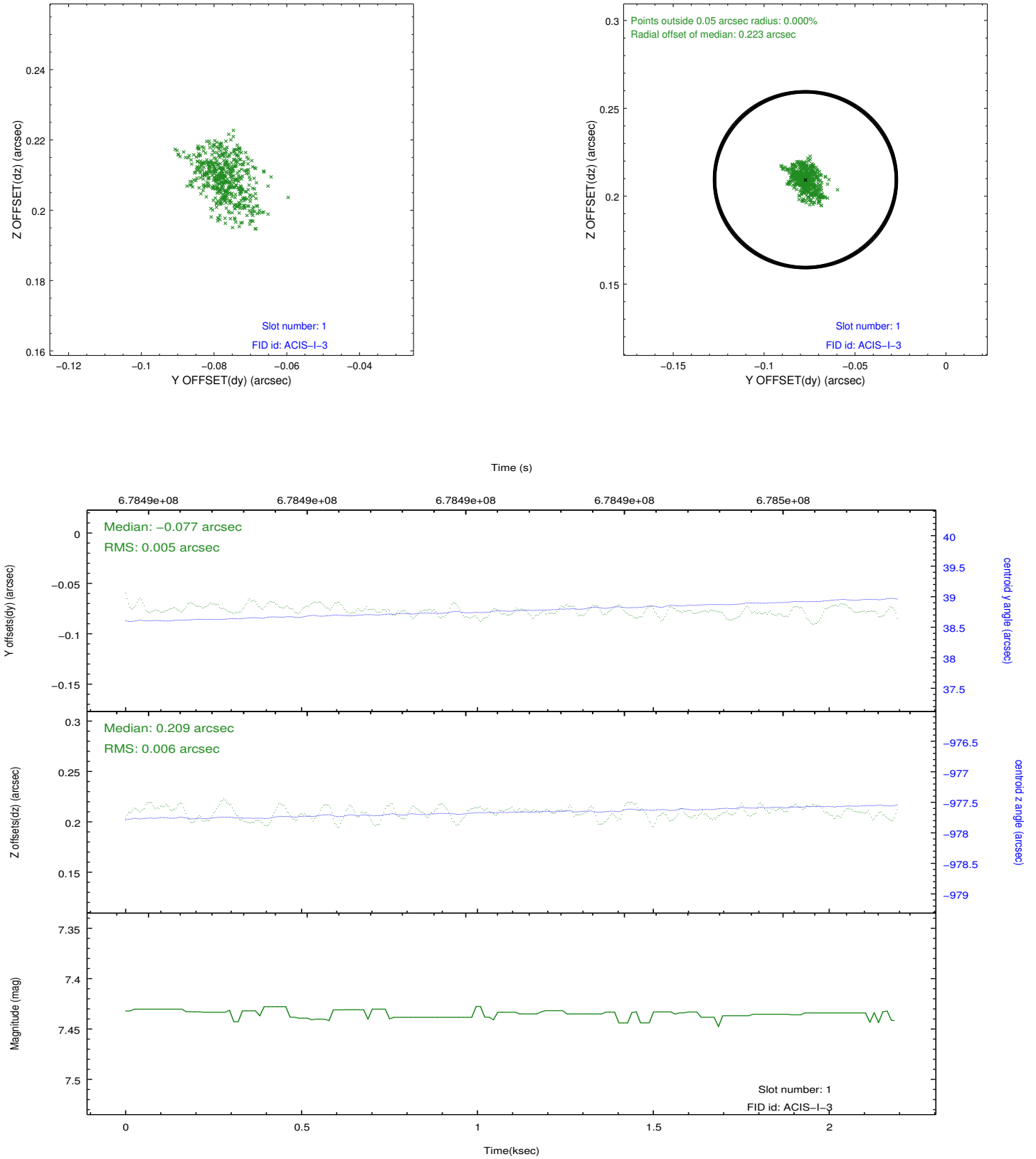


2.5 FID Slots

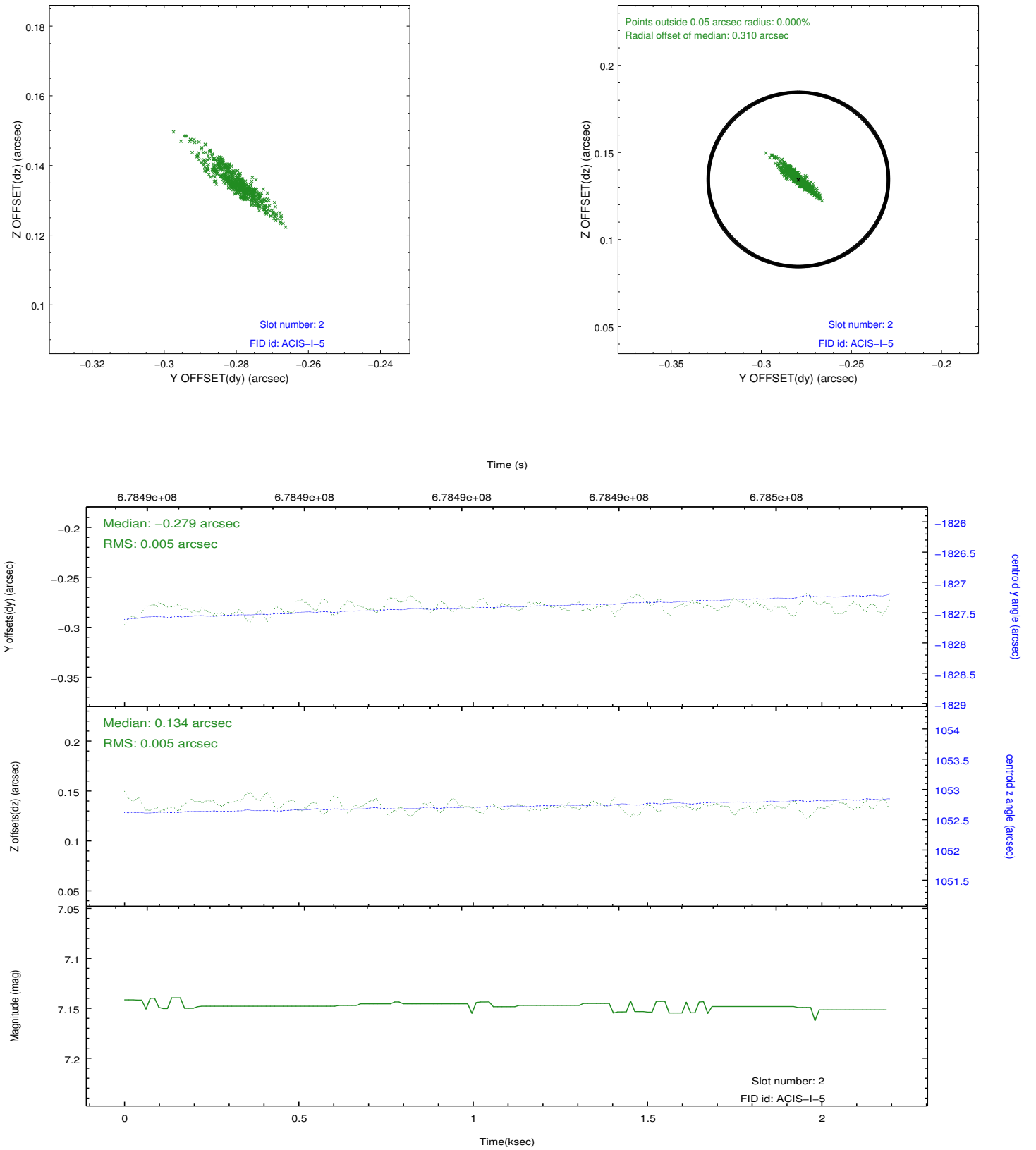
2.5.1 Slot 0



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)	2019.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9053886424303

A.2 Comments