

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21599 - L2 Version 1
Chandra X-Ray Center

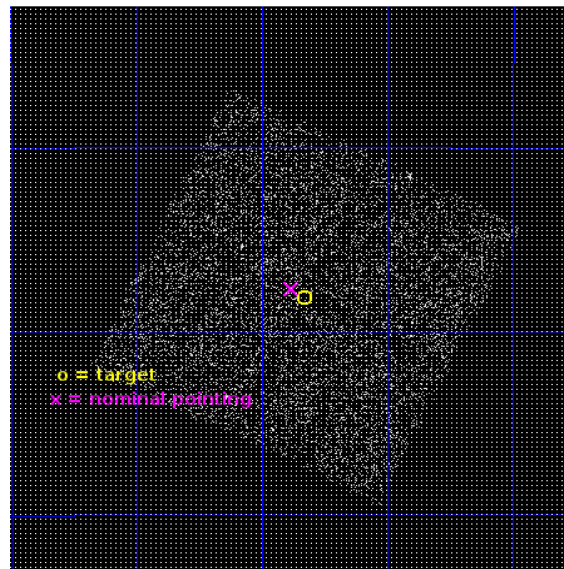
L2 Processing Date : Jul 3 2019

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1 Front

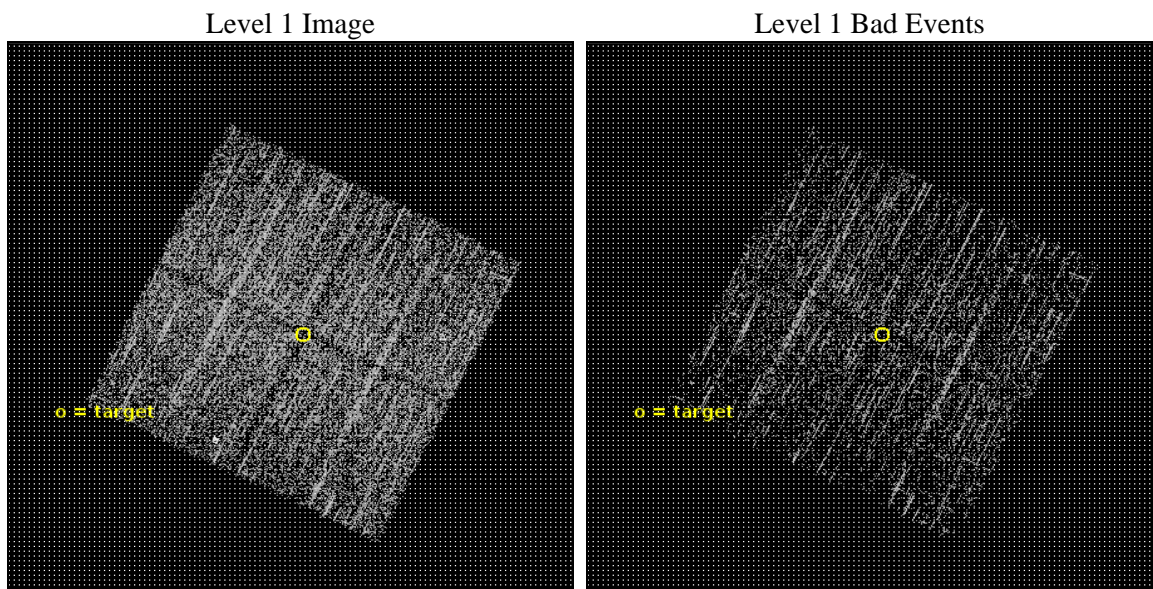
seq_num	300431	Sequence number
obs_id	21599	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.33275	Observer's specified target RA [deg]
dec_targ	-28.969817	Observer's specified target Dec [deg]
ra_nom	267.34566345947	Nominal RA [deg]
dec_nom	-28.961384803625	Nominal Dec [deg]
roll_nom	296.21493497387	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.3282806873	Sum of GTIs [s]
livetime	1883.3945668093	Livetime [s]
ontime0	1908.2872304916	Sum of GTIs [s]
ontime1	1908.3282806873	Sum of GTIs [s]
ontime2	1908.3693207502	Sum of GTIs [s]
ontime3	1908.4103606939	Sum of GTIs [s]
l2events	6556	Number of level 2 events



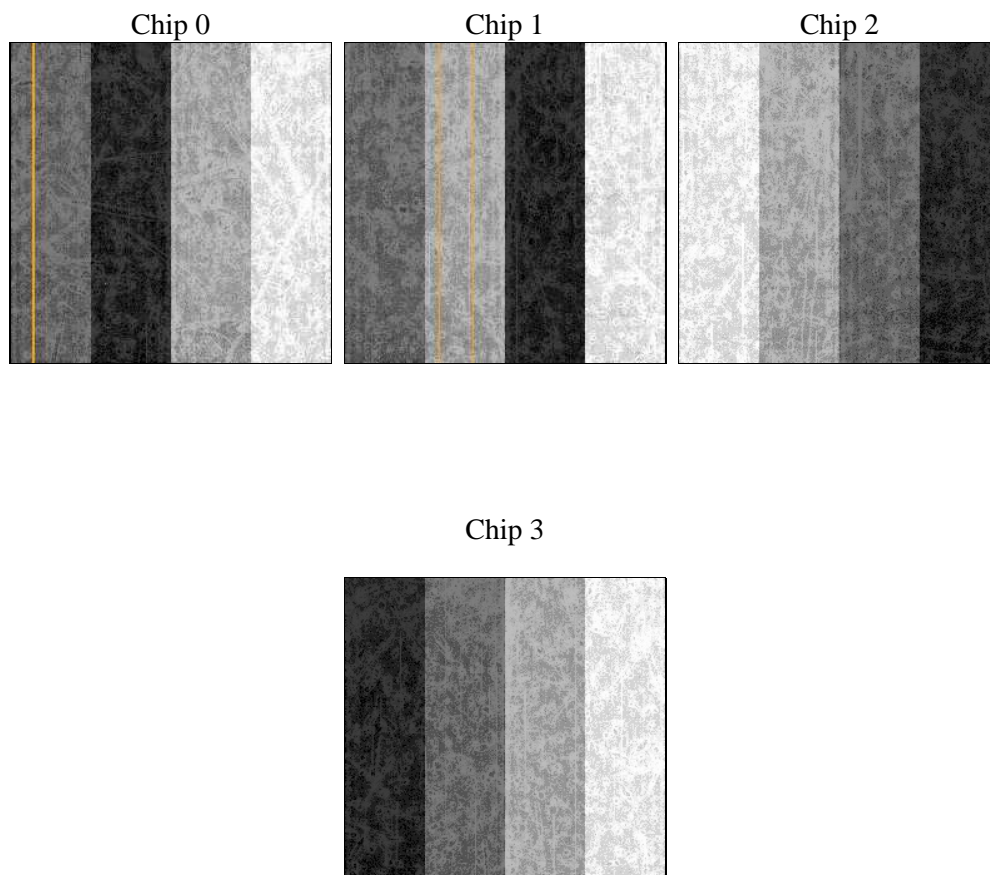
2 OBI

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	1908.3282806873	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.2872304916	Sum of GTIs [s]
date	2019-07-03T20:59:01	Date and time of file creation	ontime1	1908.3282806873	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.3693207502	Sum of GTIs [s]
			ontime3	1908.4103606939	Sum of GTIs [s]
			l1events	61378	Number of level 1 events

2.1.4 Events

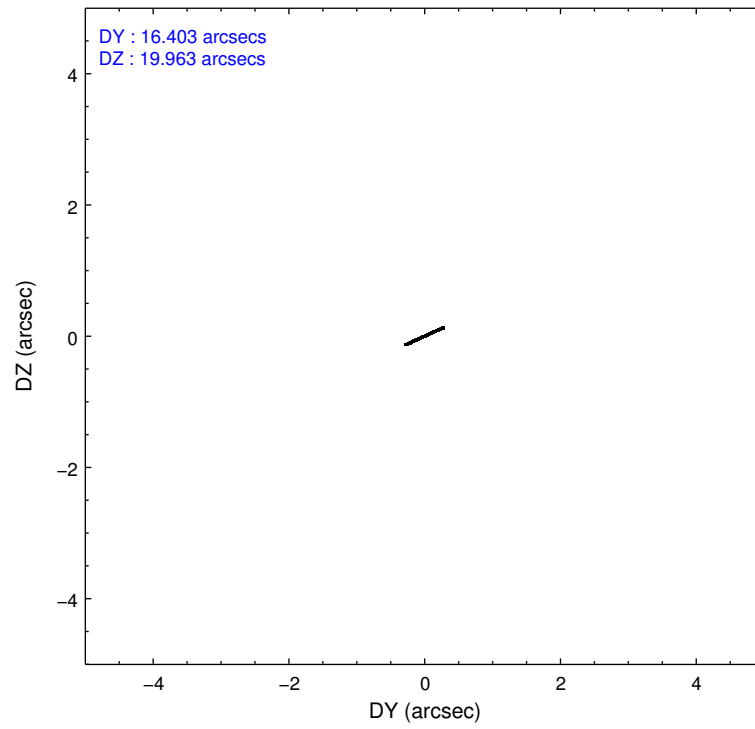
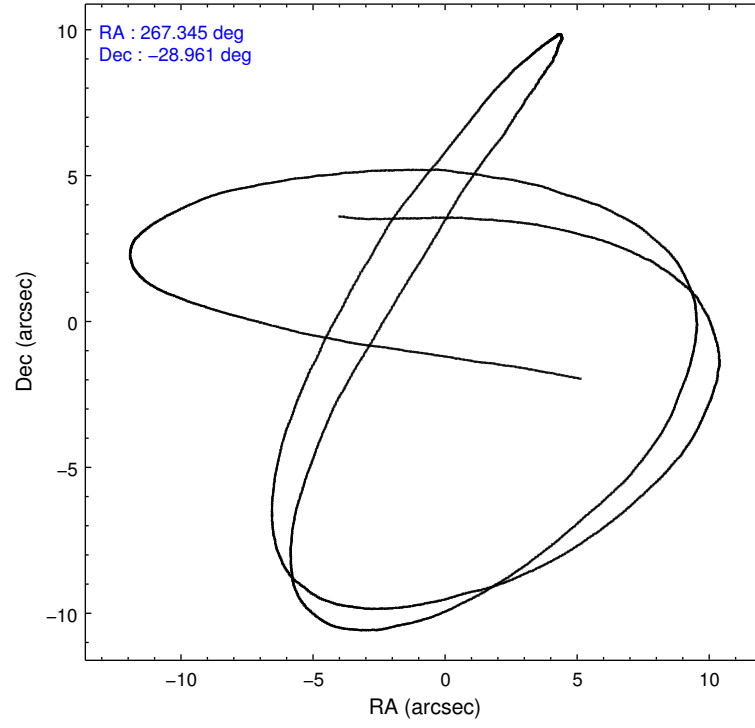
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14384	15154	15624	16216
rejected events	12380	12943	13102	14478
rejected %	86%	85%	83%	89%

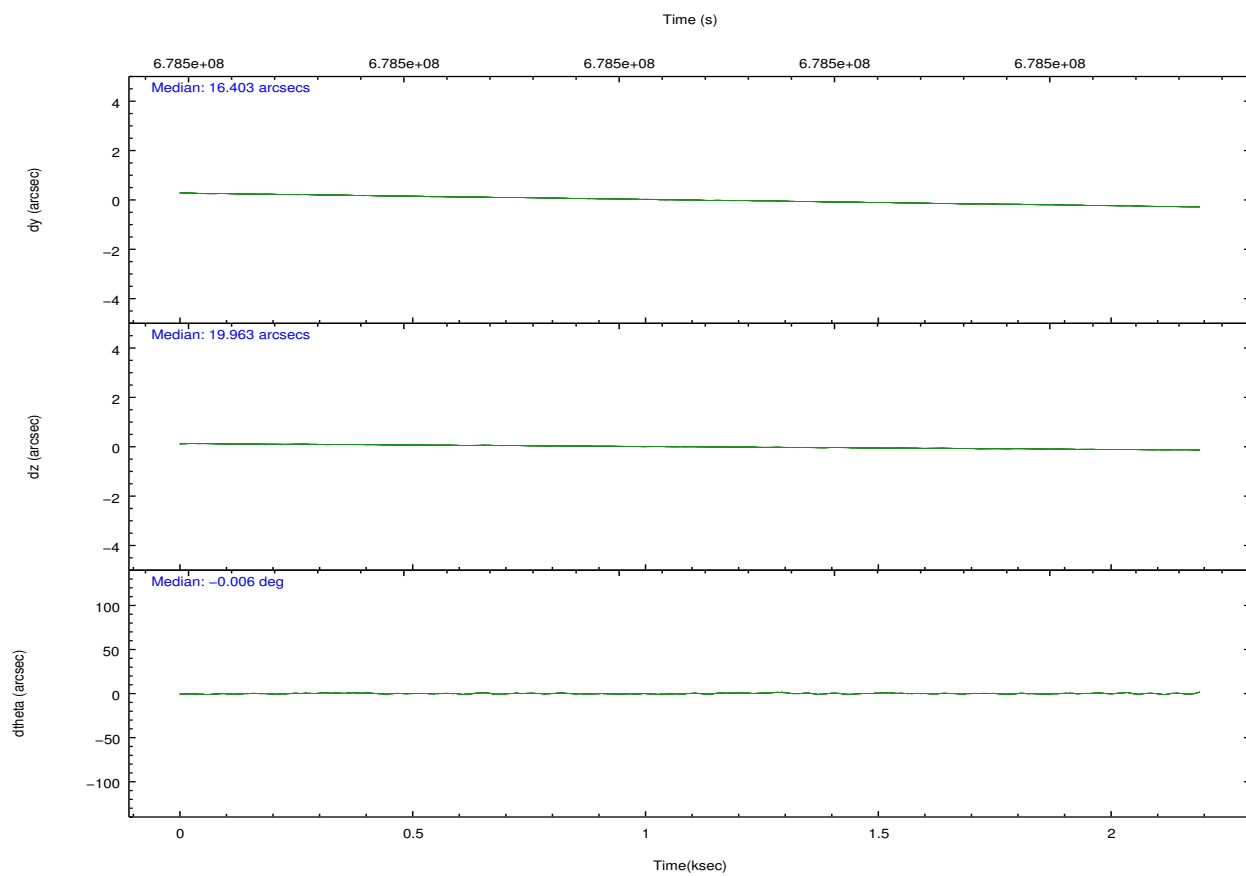
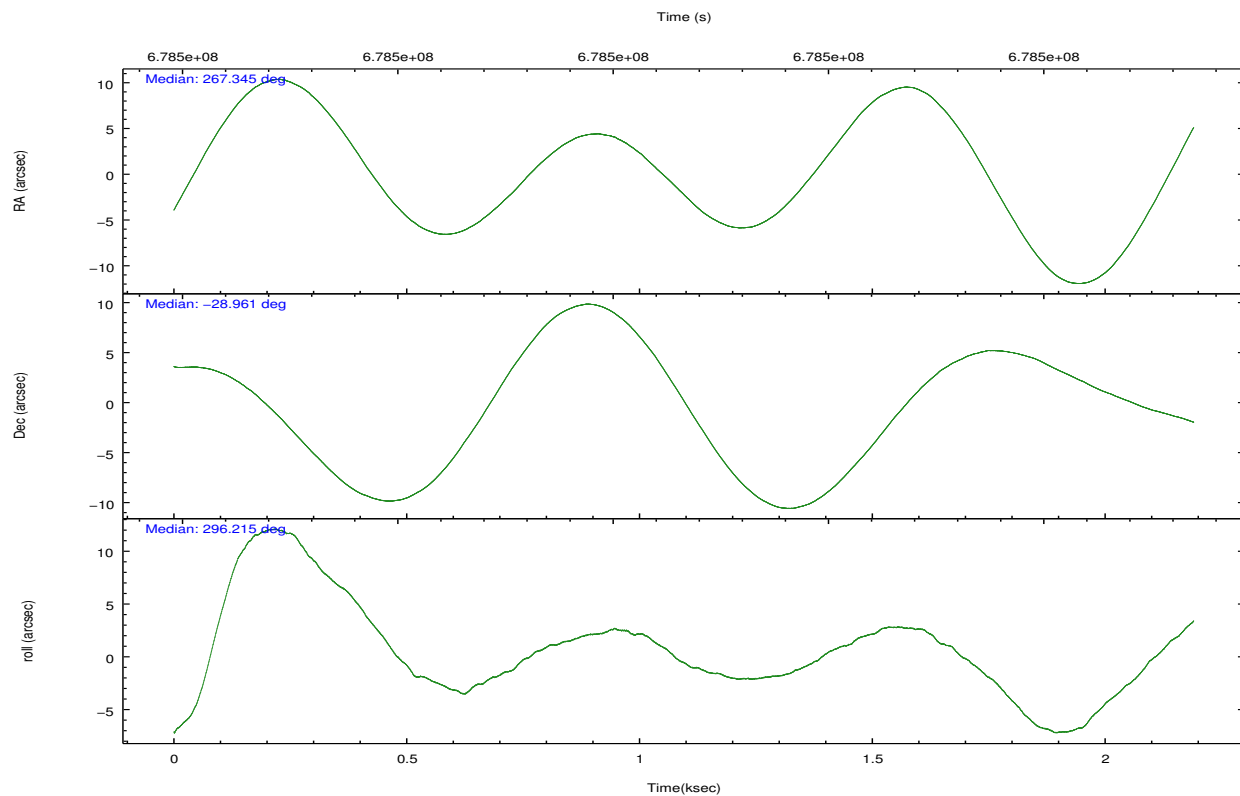
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	827	882	1418	676
	5%	5%	9%	4%
grade 1 events	11	17	13	11
	0%	0%	0%	0%
grade 2 events	439	482	417	383
	3%	3%	2%	2%
grade 3 events	197	204	154	167
	1%	1%	0%	1%
grade 4 events	182	165	184	176
	1%	1%	1%	1%
grade 5 events	630	663	568	658
	4%	4%	3%	4%
grade 6 events	362	481	351	341
	2%	3%	2%	2%
grade 7 events	11736	12260	12519	13804
	81%	80%	80%	85%

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	267.319356	267.3456634594674	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.946171	-28.9613848036253	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993526	296.2149349738697	[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)	678500770.184000	678500394.54598			
Observation start date	2019-07-03T00:25:01	2019-07-03T00:19:54			
[s] Observation end time (MET)	678502770.184000	678502904.77113			
Observation end date	2019-07-03T00:58:21	2019-07-03T01:01:44			
Read mode	TIMED	TIMED			

2.3 Aspect



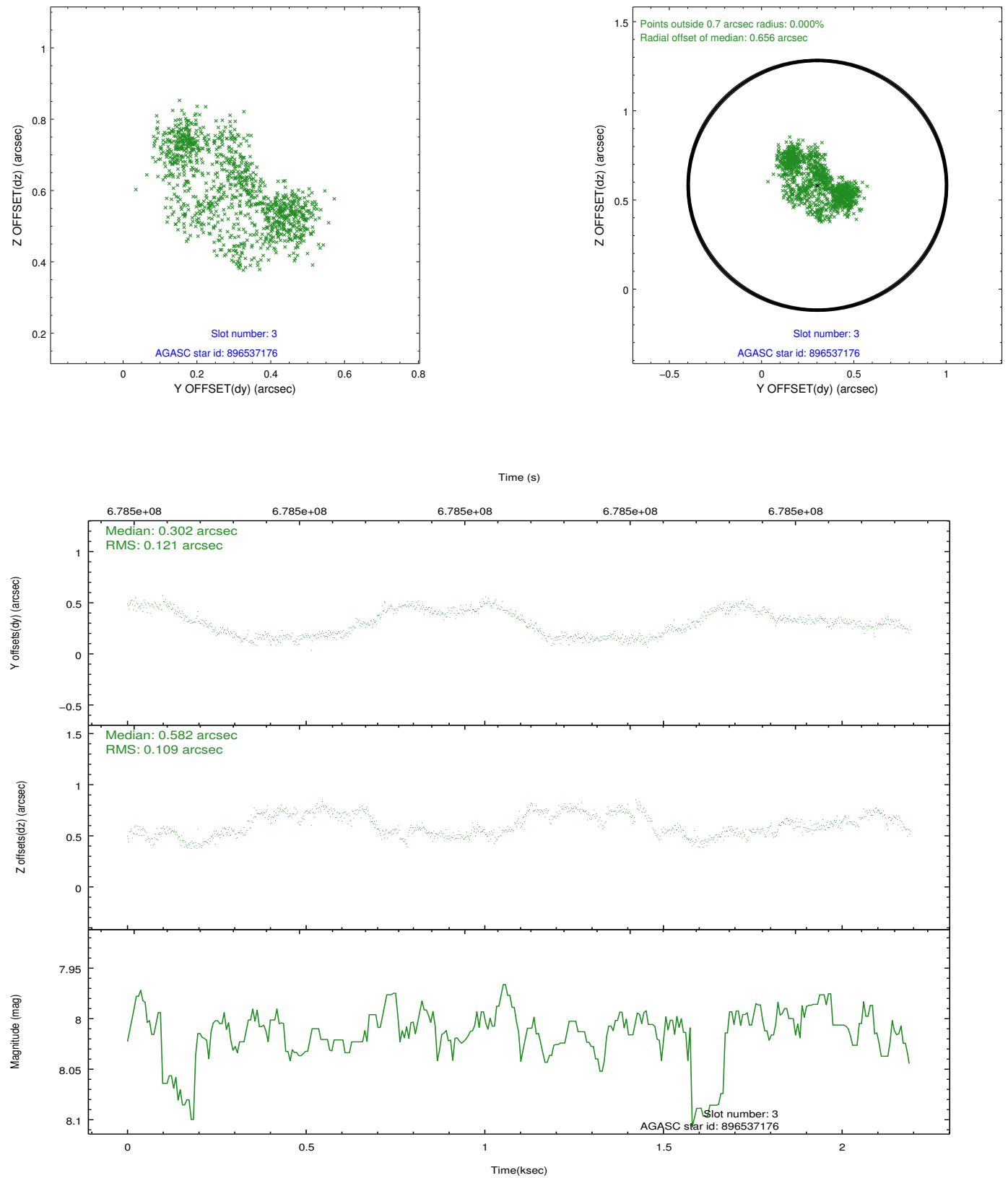


Slot Statistics

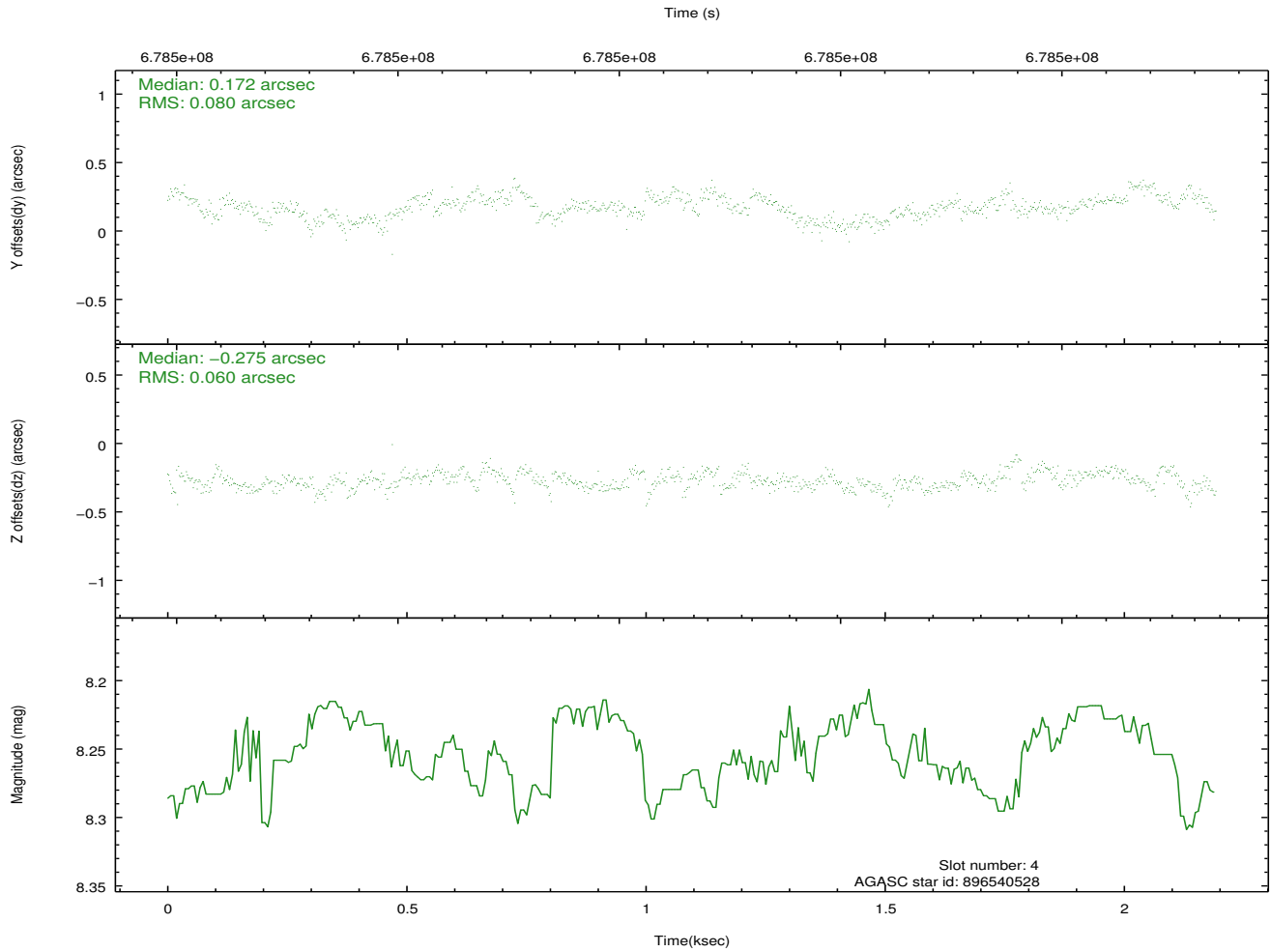
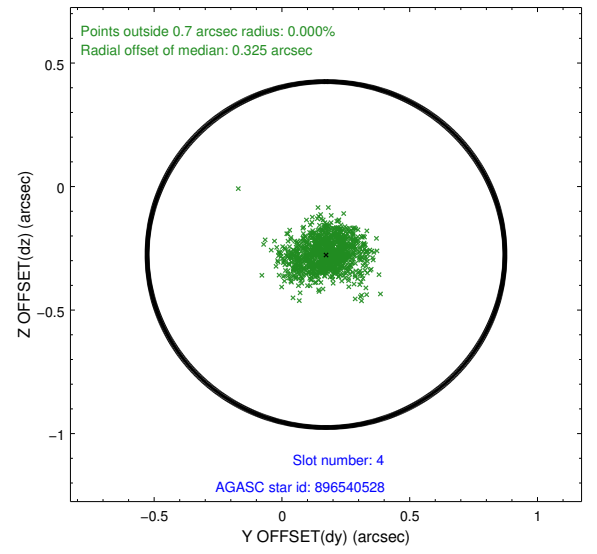
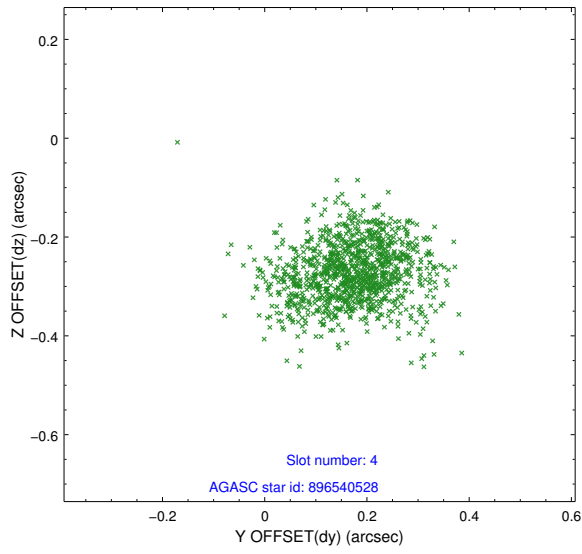
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.45	535	1.000	-0.072	0.173	0.008	0.014	0.000000	0.000000	40.43	-976
1	FID		ACIS-I-5	7.17	535	1.000	-0.451	-0.172	0.009	0.015	0.000000	0.000000	-1825.63	1051
2	FID		ACIS-I-6	7.20	535	1.000	0.432	0.068	0.007	0.012	0.000000	0.000000	385.63	1700
3	GUIDE	used	896537176	8.01	1070	1.000	0.302	0.582	0.185	0.244	266.498272	-28.678259	-1993.96	-1911
4	GUIDE	used	896540528	8.25	1069	1.000	0.172	-0.275	0.107	0.173	267.368305	-29.314773	1260.00	-444
5	GUIDE	used	896541576	8.20	1070	1.000	0.096	0.298	0.164	0.268	267.051055	-28.762912	-960.99	-472
6	GUIDE	used	896543712	8.19	1070	1.000	-0.496	-0.426	0.231	0.327	267.764551	-28.659720	-307.61	1713
7	GUIDE	used	896538208	7.93	1069	1.000	-0.102	-0.199	0.097	0.152	267.176969	-28.671626	-1084.55	30

2.4 Star Slots

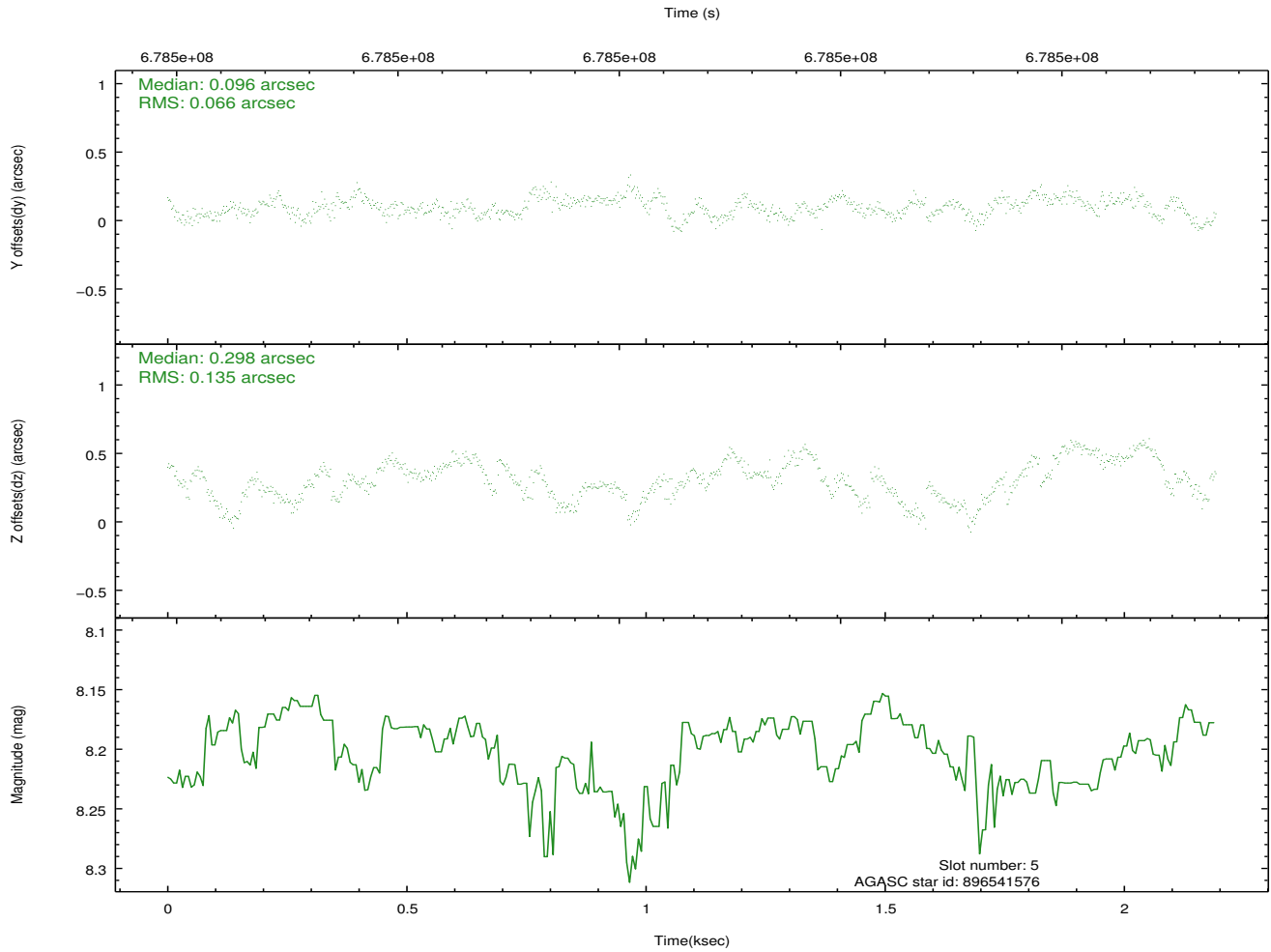
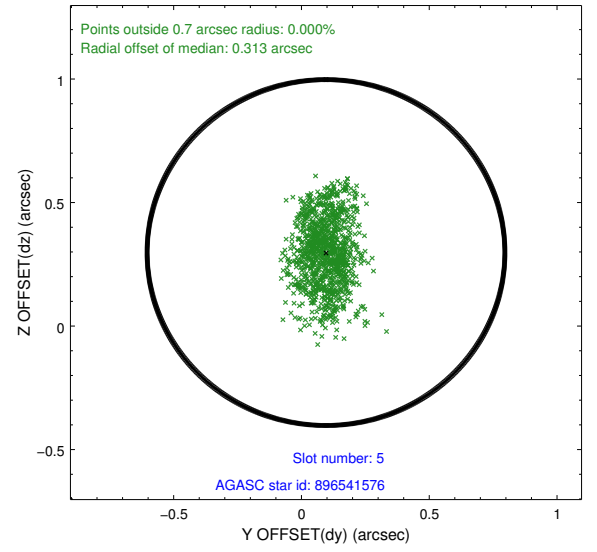
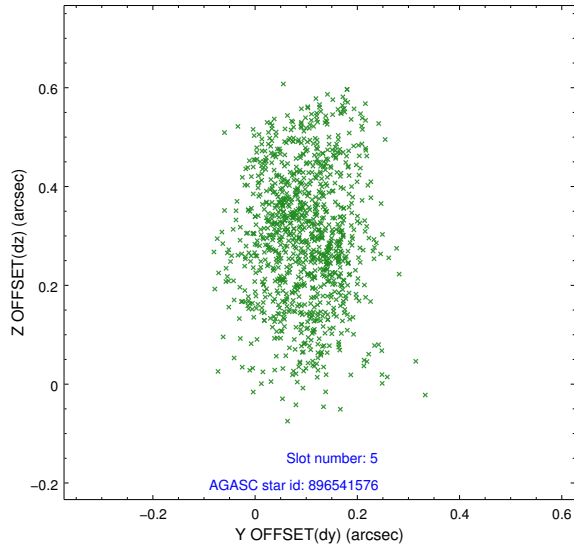
2.4.1 Slot 3



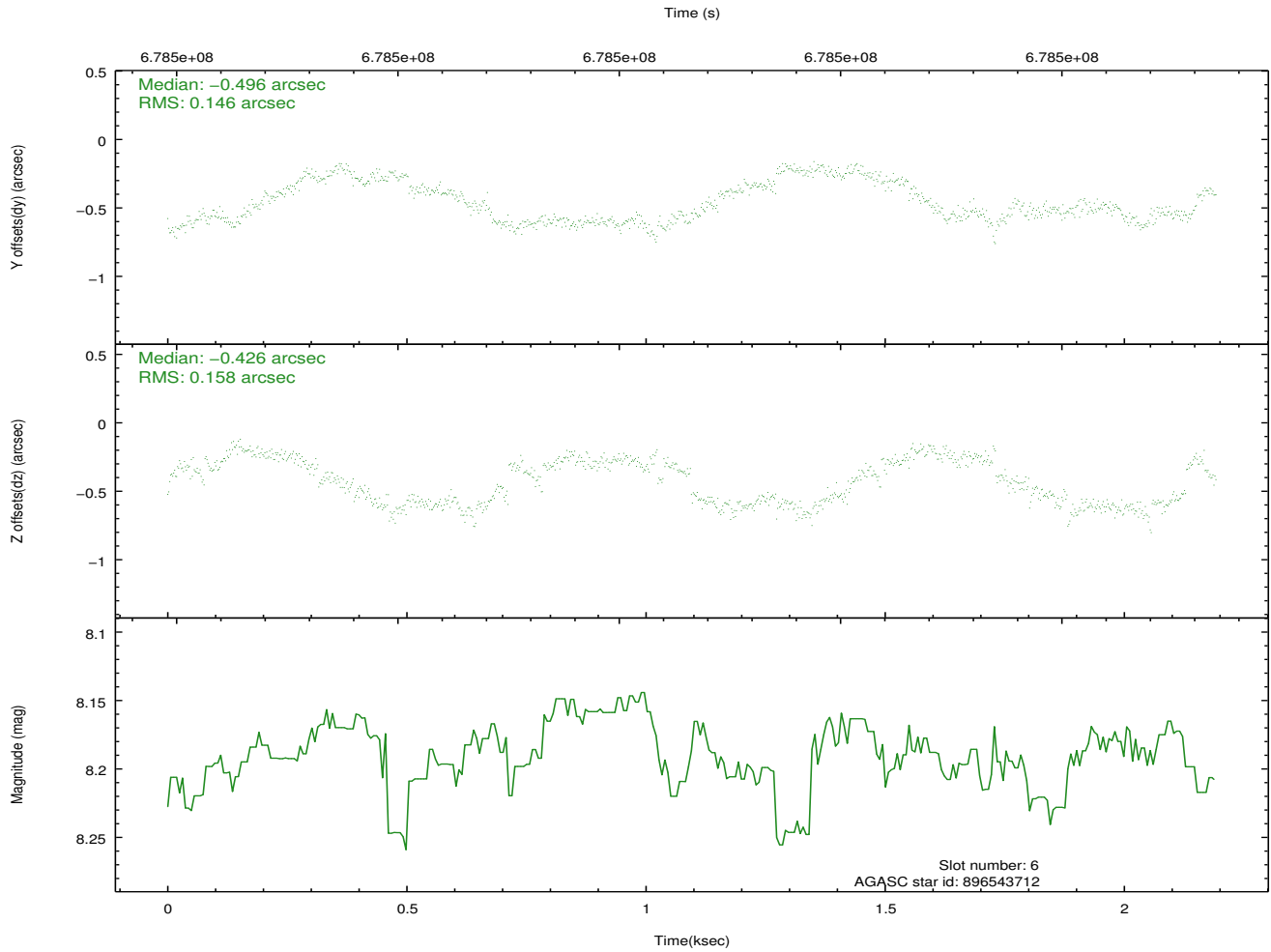
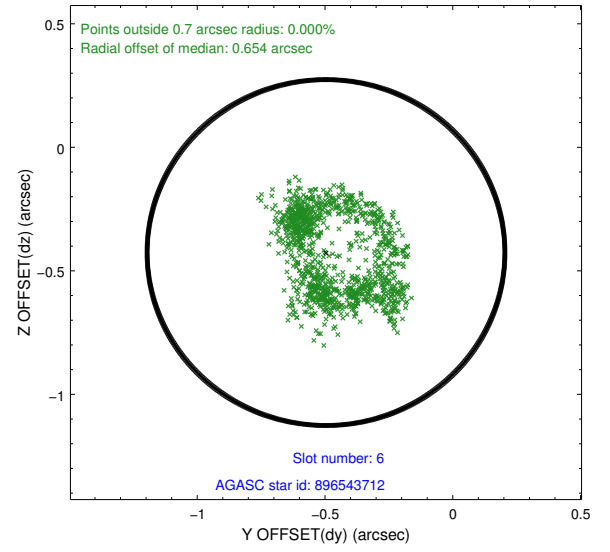
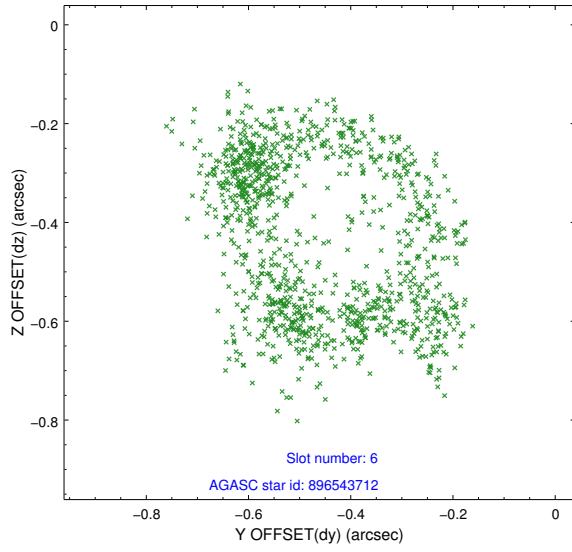
2.4.2 Slot 4



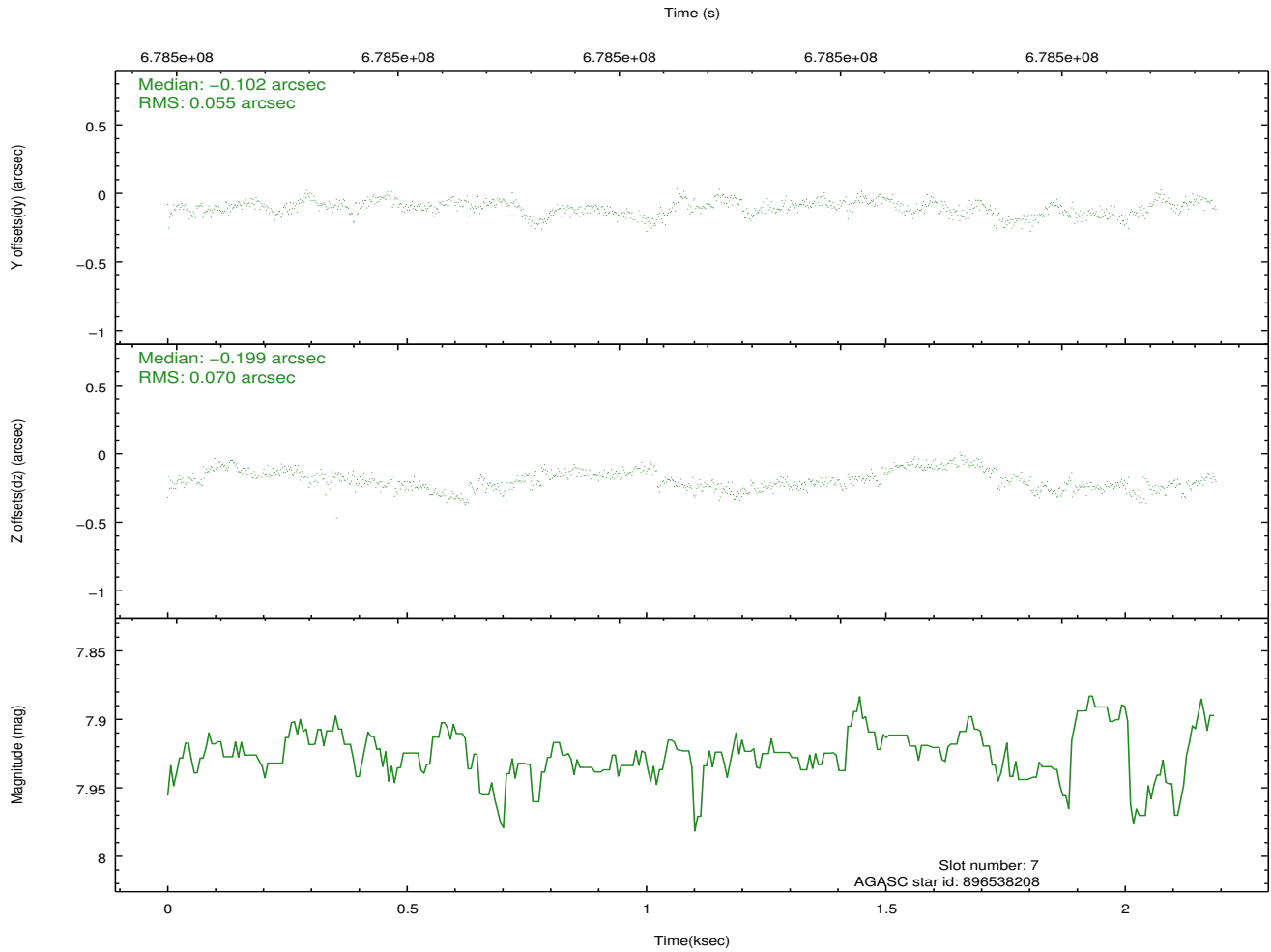
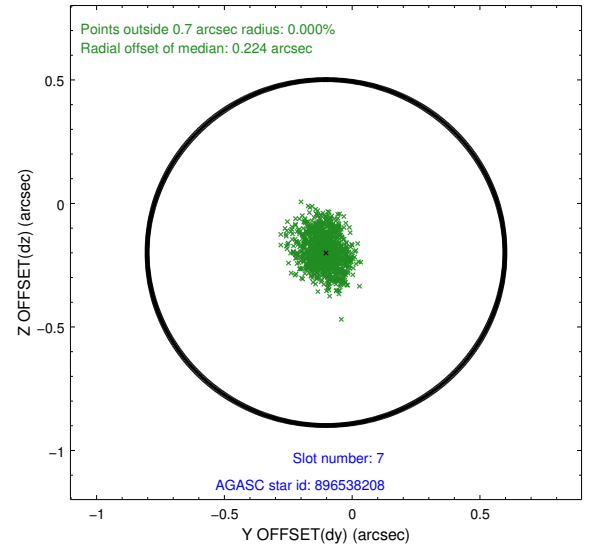
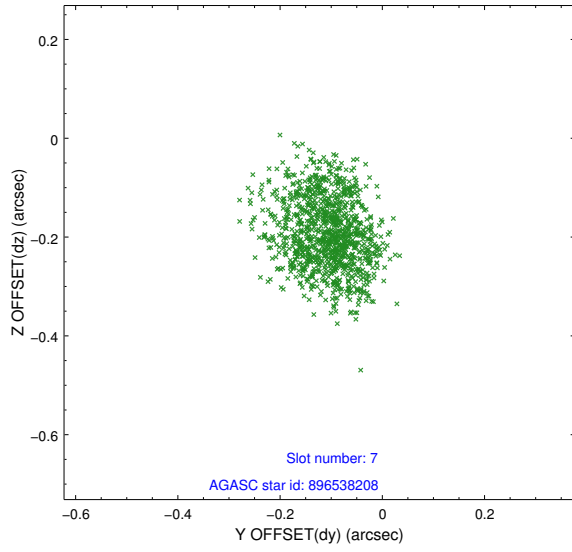
2.4.3 Slot 5



2.4.4 Slot 6

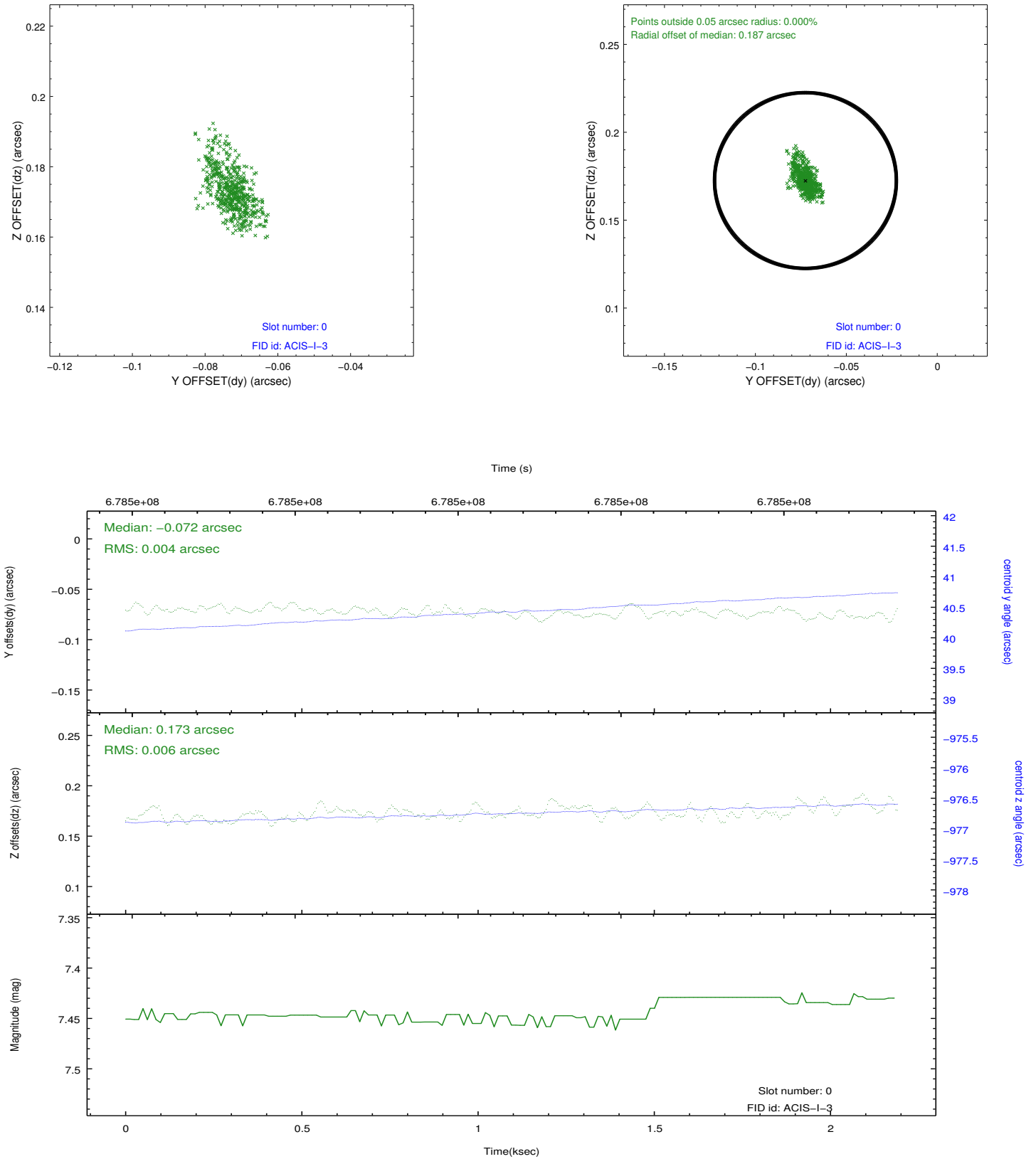


2.4.5 Slot 7

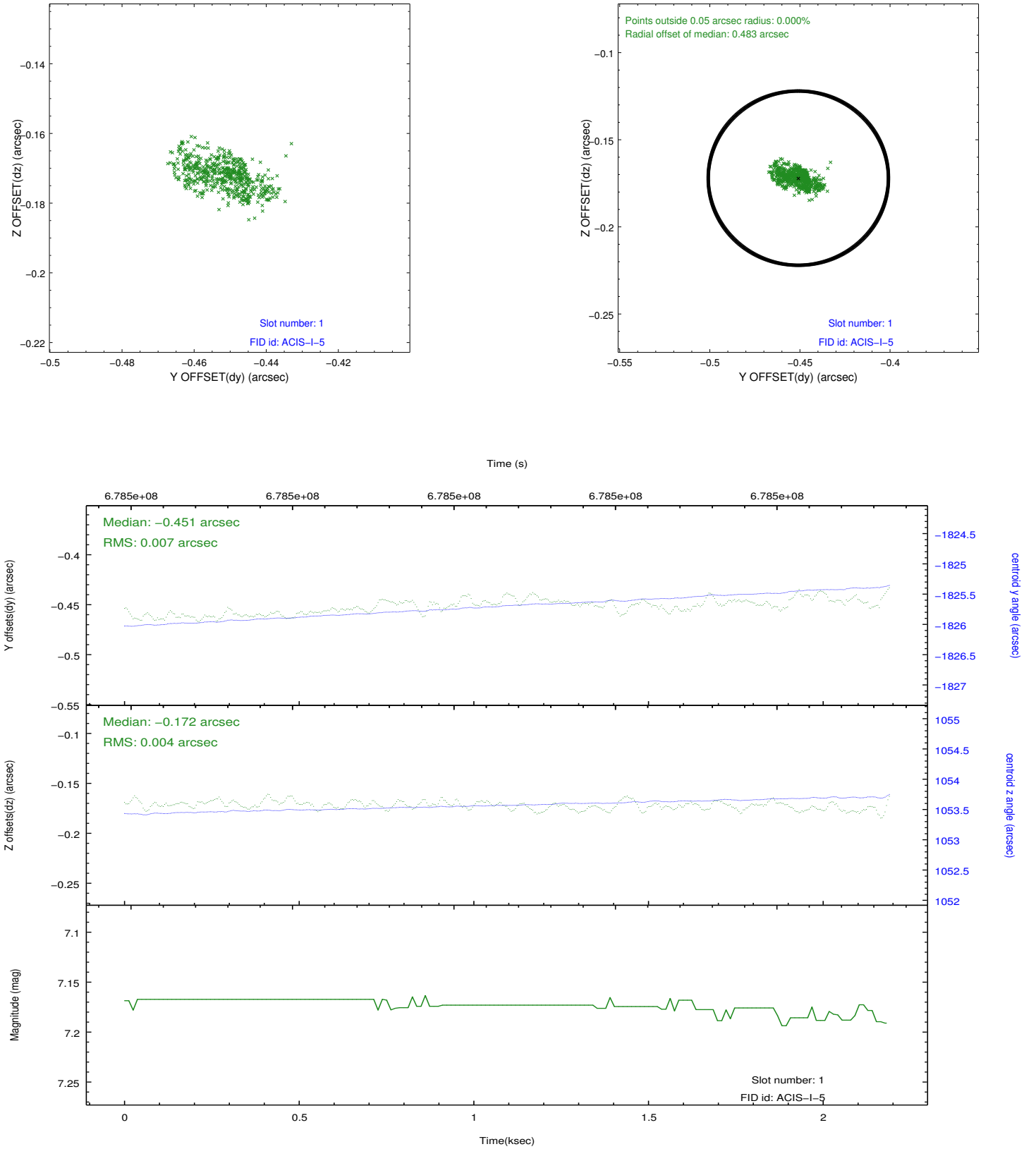


2.5 FID Slots

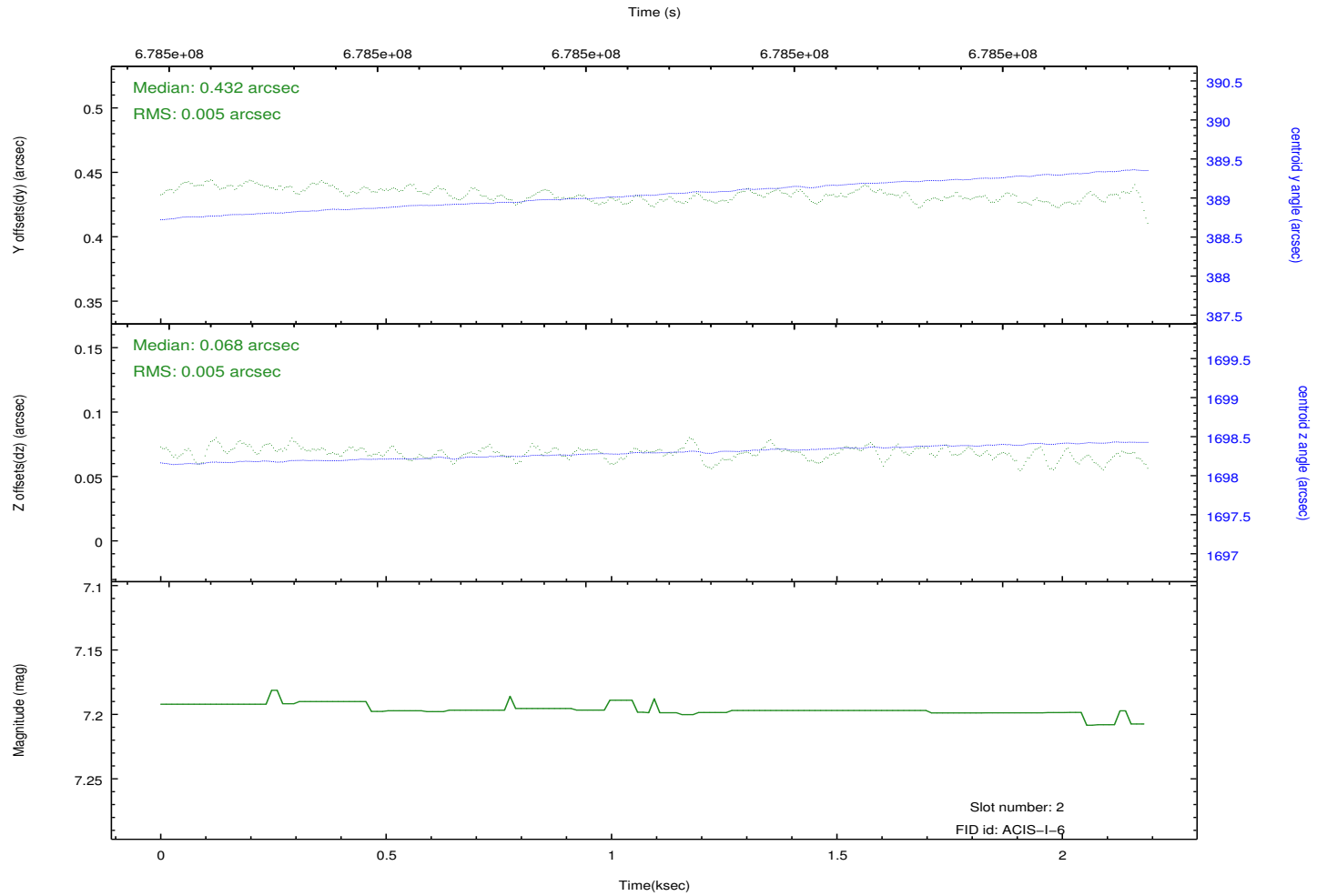
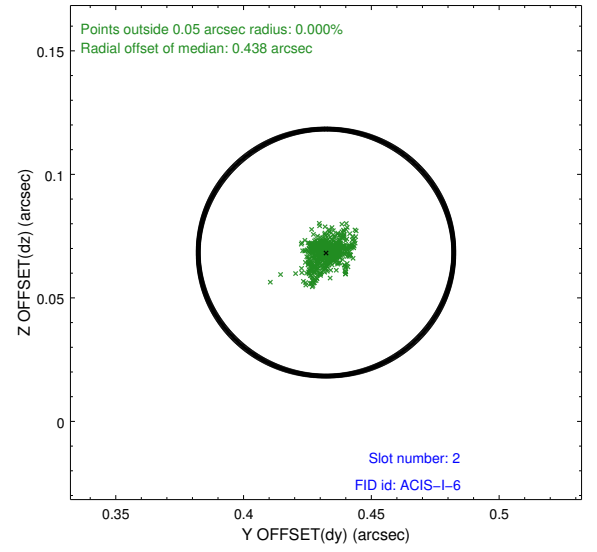
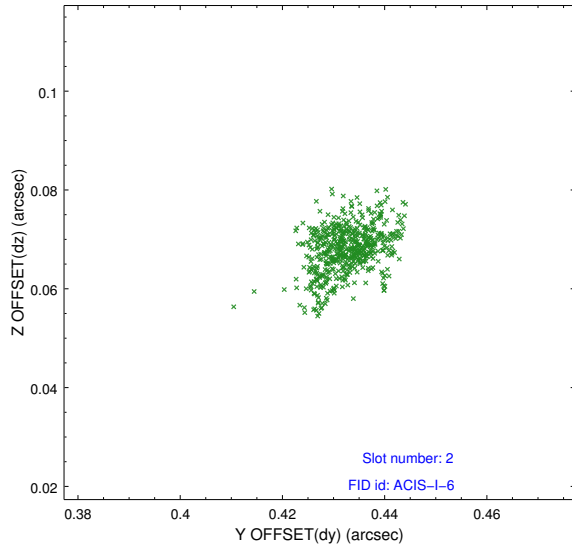
2.5.1 Slot 0



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	1.9083282806873

A.2 Comments