

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21597 - L2 Version 1
Chandra X-Ray Center

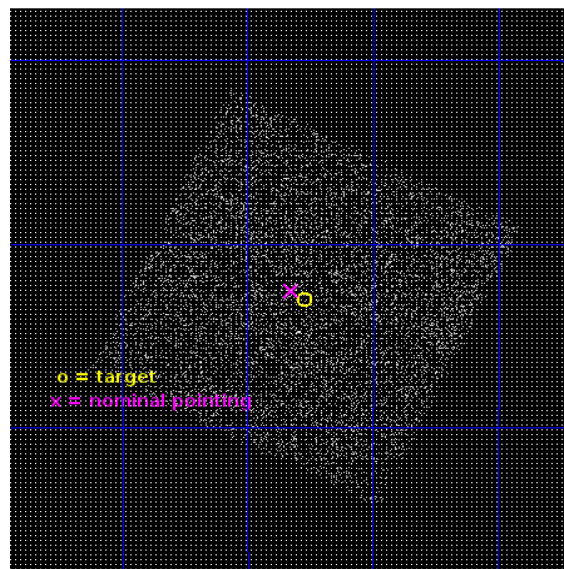
L2 Processing Date : Jul 3 2019

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1 Front

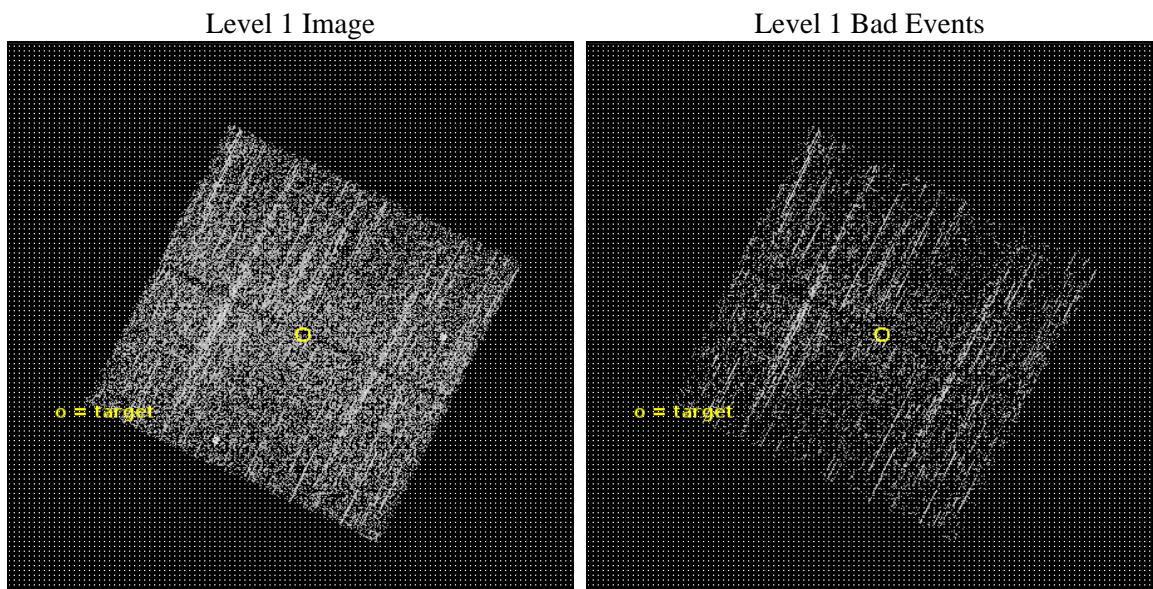
seq_num	300429	Sequence number
obs_id	21597	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.06809	Observer's specified target RA [deg]
dec_targ	-28.884108	Observer's specified target Dec [deg]
ra_nom	267.08118600238	Nominal RA [deg]
dec_nom	-28.875842743624	Nominal Dec [deg]
roll_nom	296.21504260256	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.4685819149	Sum of GTIs [s]
livetime	1883.5330348981	Livetime [s]
ontime0	1908.4275419712	Sum of GTIs [s]
ontime1	1908.4685819149	Sum of GTIs [s]
ontime2	1908.5096222162	Sum of GTIs [s]
ontime3	1908.5506619215	Sum of GTIs [s]
l2events	6459	Number of level 2 events



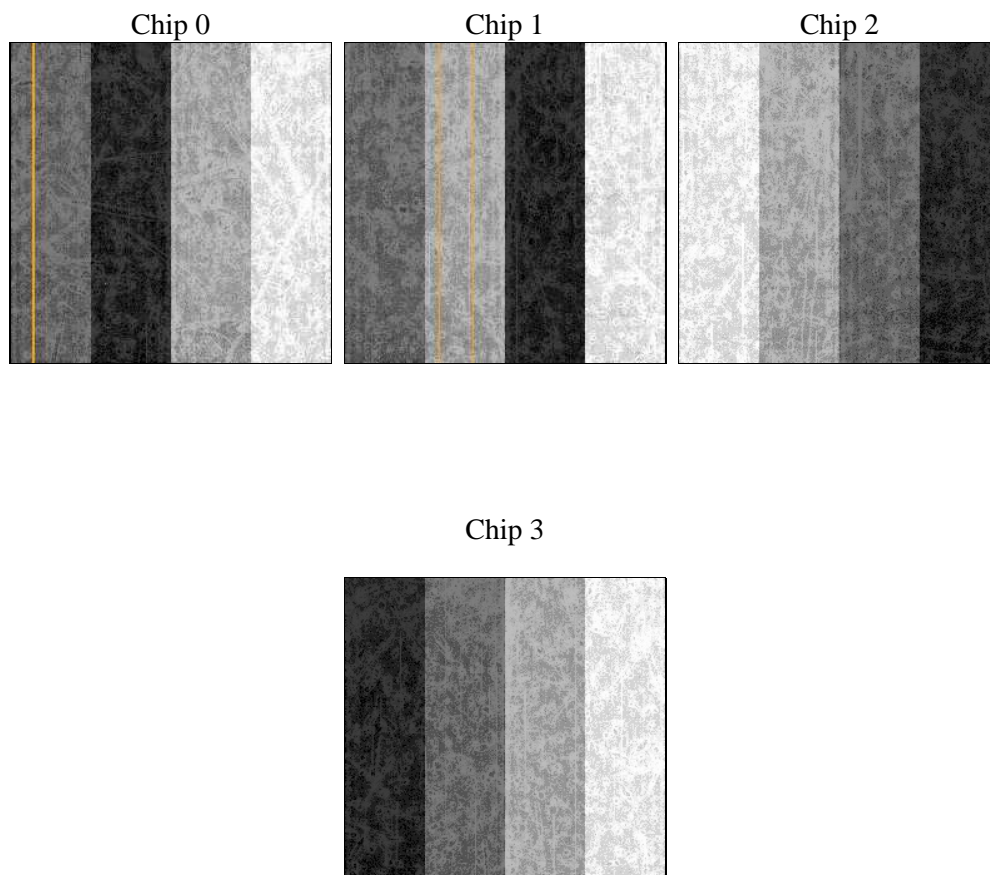
2 OBI

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	1908.4685819149	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.4275419712	Sum of GTIs [s]
date	2019-07-03T20:57:50	Date and time of file creation	ontime1	1908.4685819149	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.5096222162	Sum of GTIs [s]
			ontime3	1908.5506619215	Sum of GTIs [s]
			l1events	57247	Number of level 1 events

2.1.4 Events

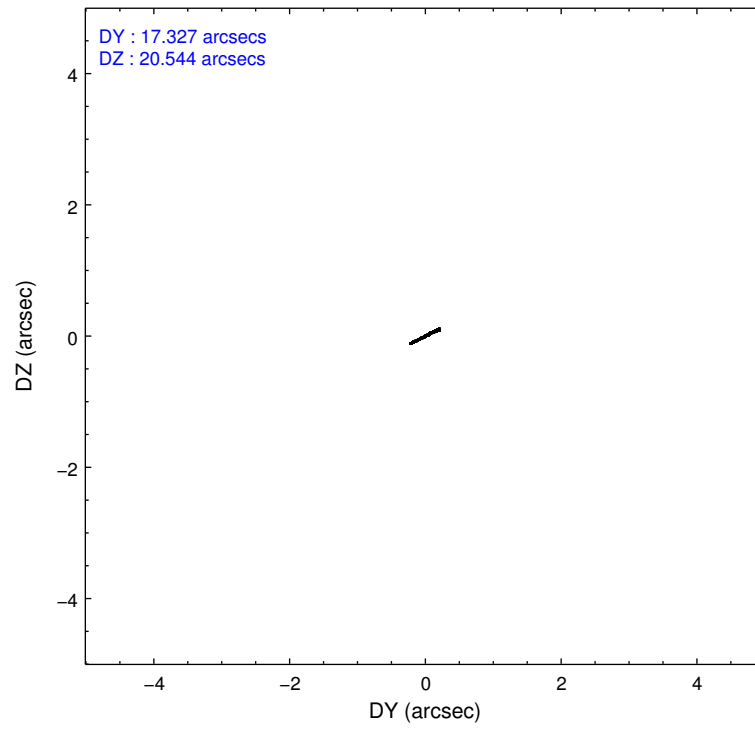
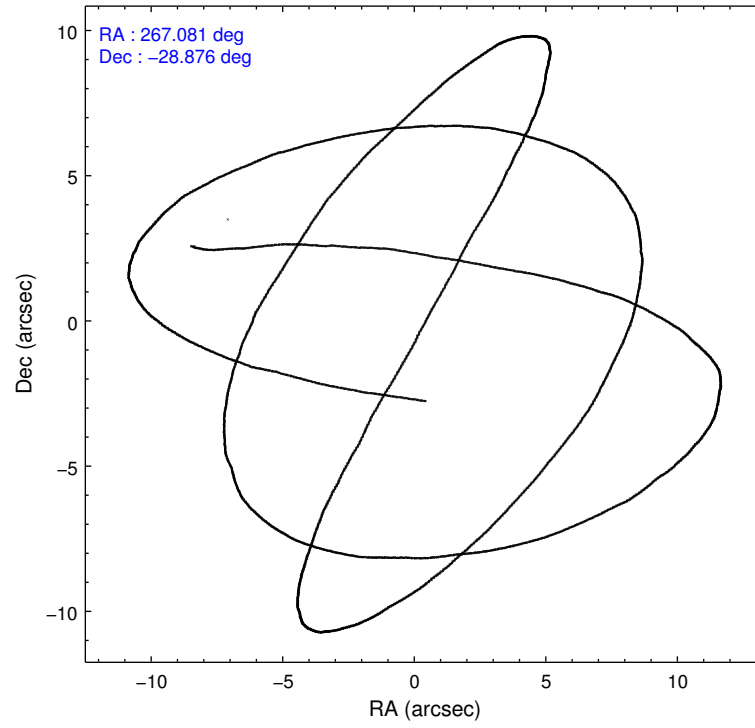
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13677	13154	15094	15322
rejected events	11819	10933	12972	13546
rejected %	86%	83%	85%	88%

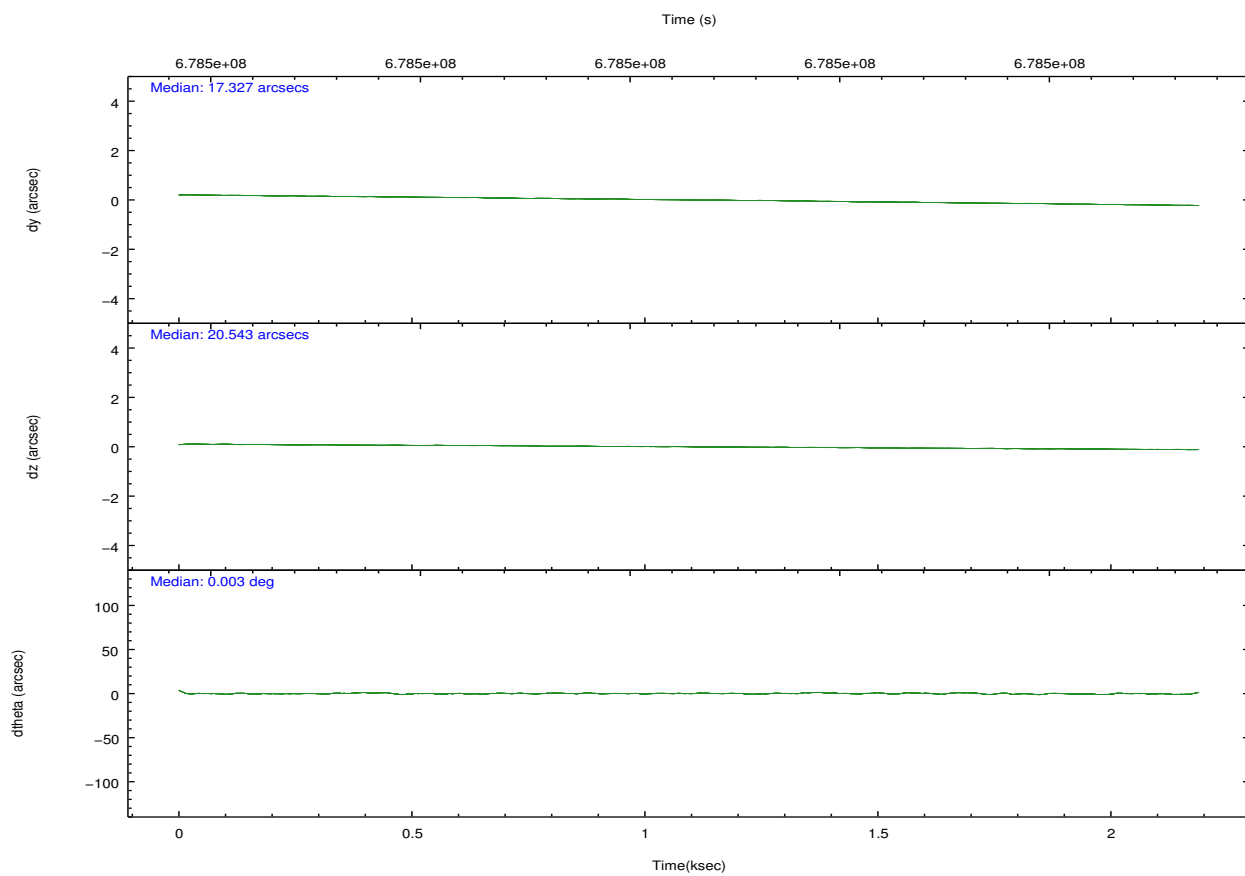
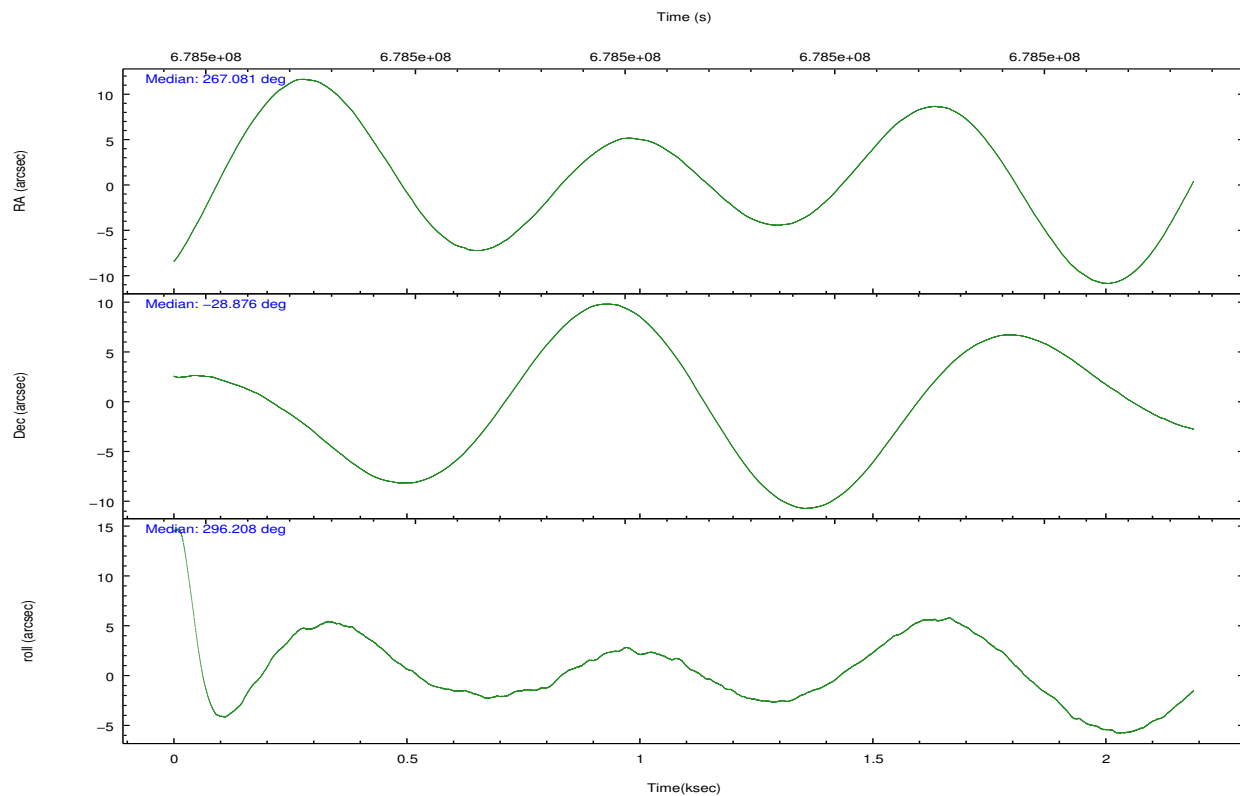
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	737	972	1026	744
	5%	7%	6%	4%
grade 1 events	7	8	14	15
	0%	0%	0%	0%
grade 2 events	426	490	456	366
	3%	3%	3%	2%
grade 3 events	169	182	154	161
	1%	1%	1%	1%
grade 4 events	163	157	165	148
	1%	1%	1%	0%
grade 5 events	681	626	660	710
	4%	4%	4%	4%
grade 6 events	364	426	323	357
	2%	3%	2%	2%
grade 7 events	11130	10293	12296	12821
	81%	78%	81%	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	267.054944	267.0811860023776	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.860633	-28.87584274362379	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993656	296.2150426025576	[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)	678495750.184000	678495374.60818			
Observation start date	2019-07-02T23:01:21	2019-07-02T22:56:14			
[s] Observation end time (MET)	678497750.184000	678497884.32083			
Observation end date	2019-07-02T23:34:41	2019-07-02T23:38:04			
Read mode	TIMED	TIMED			

2.3 Aspect



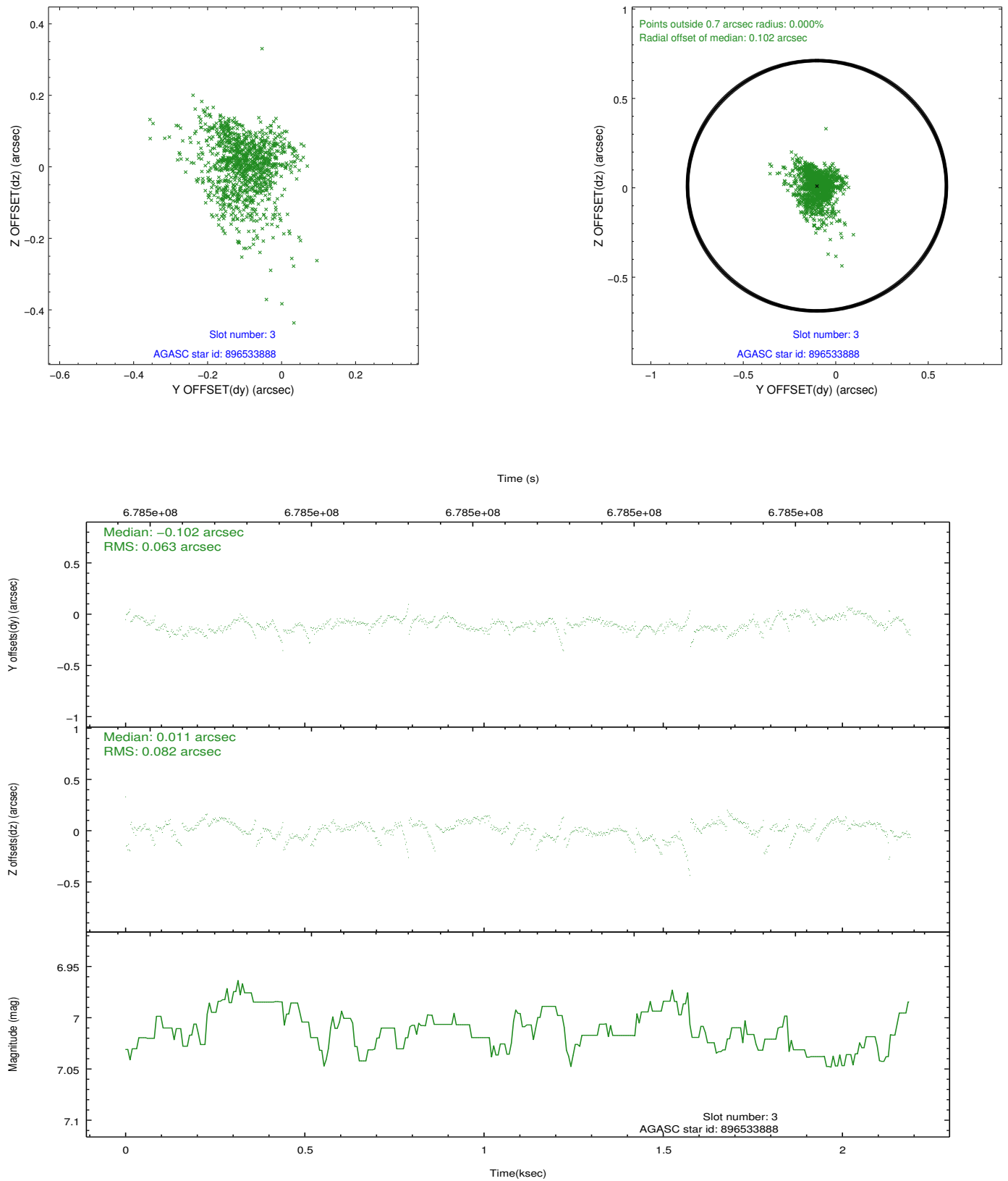


Slot Statistics

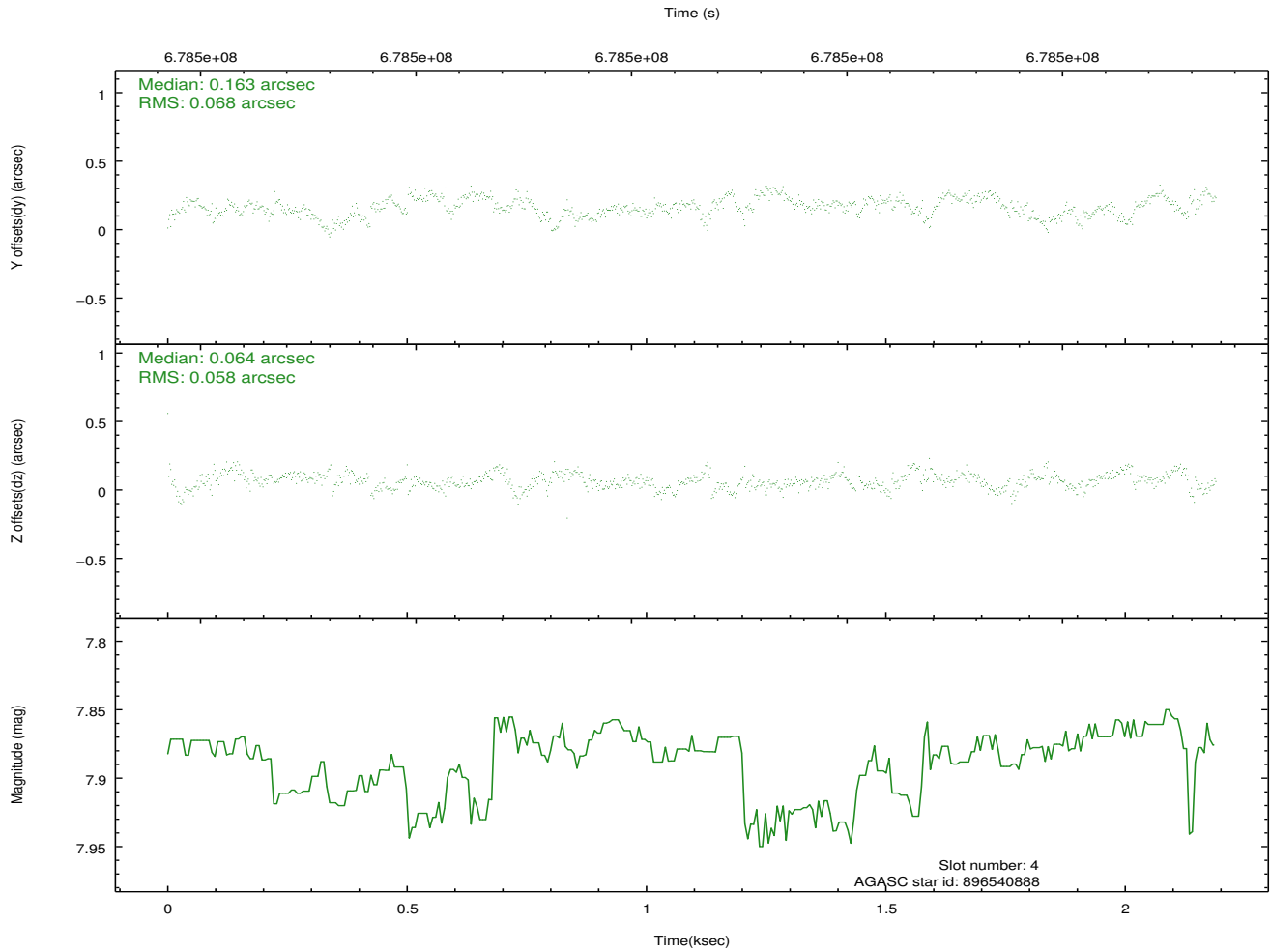
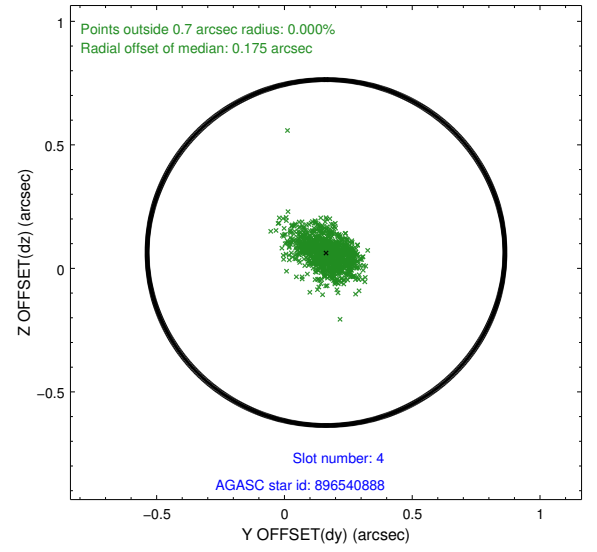
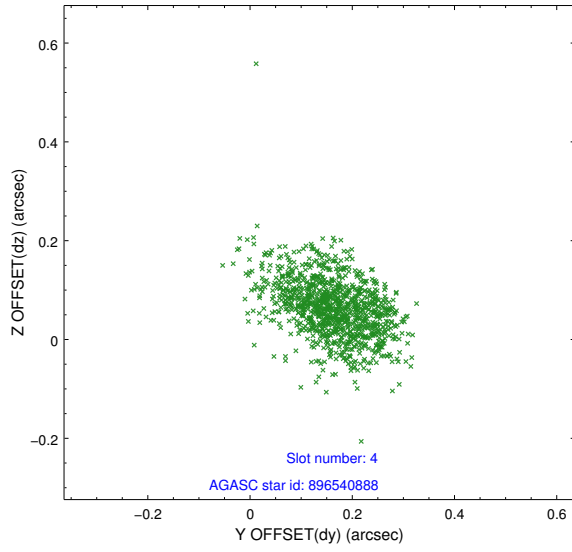
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	534	1.000	0.158	-0.149	0.007	0.012	0.000000	0.000000	922.15	-844
1	FID		ACIS-I-3	7.44	534	1.000	-0.163	0.092	0.007	0.011	0.000000	0.000000	40.96	-979
2	FID		ACIS-I-6	7.18	534	1.000	-0.083	0.124	0.007	0.012	0.000000	0.000000	387.92	1695
3	GUIDE	used	896533888	7.02	1069	1.000	-0.102	0.011	0.104	0.184	266.666434	-29.392757	1190.55	-1935
4	GUIDE	used	896540888	7.88	1069	1.000	0.163	0.064	0.093	0.154	267.212234	-28.246138	-1767.77	1416
5	GUIDE	used	896541360	7.70	1069	1.000	0.165	-0.045	0.107	0.210	266.684478	-29.453744	1411.24	-1978
6	GUIDE	used	896543712	8.23	1069	1.000	-0.449	-0.642	0.127	0.210	267.764551	-28.659720	340.54	2326
7	GUIDE	used	896537176	8.01	1067	1.000	0.218	0.619	0.091	0.155	266.498272	-28.678259	-1355.43	-1291

2.4 Star Slots

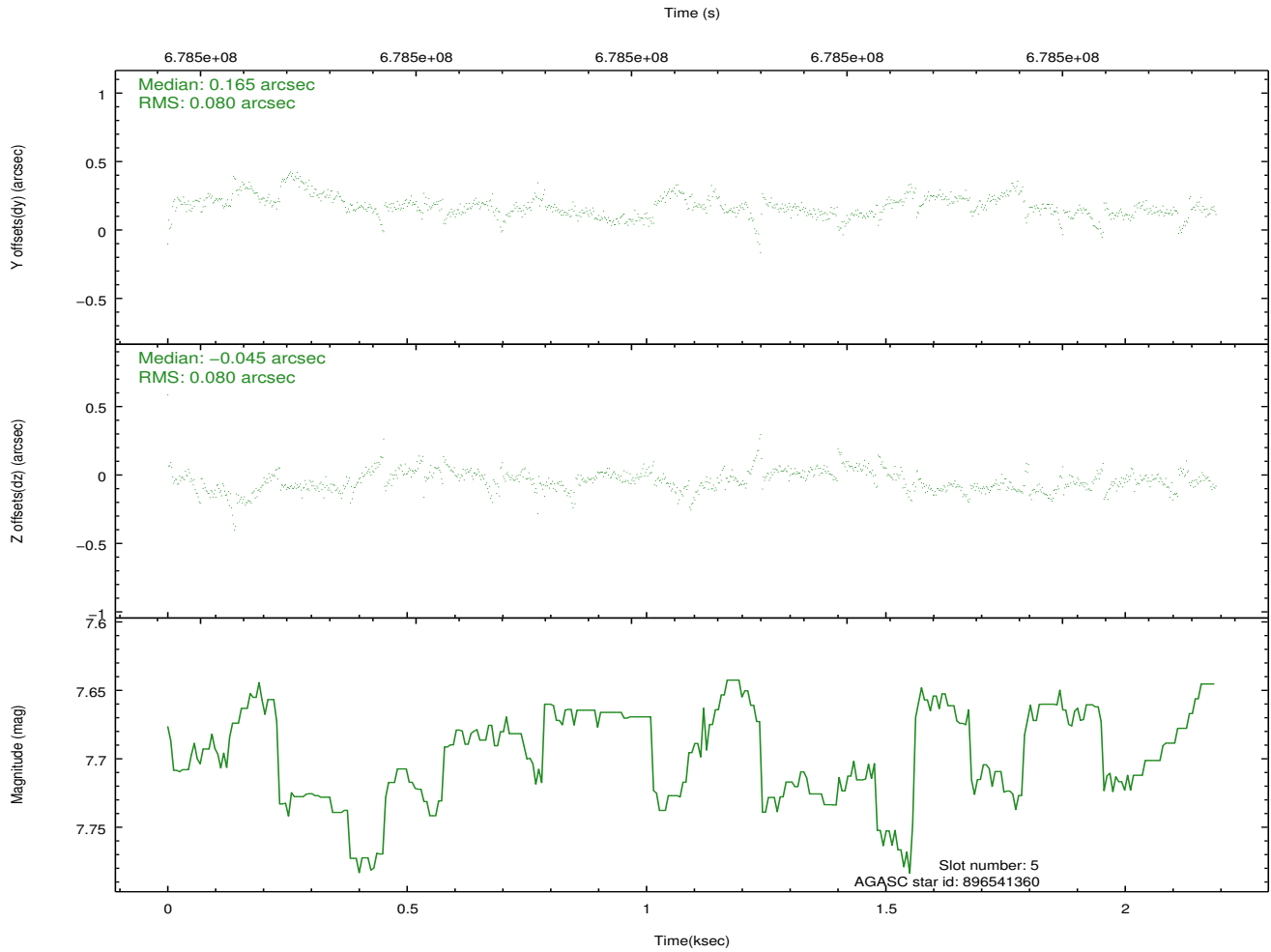
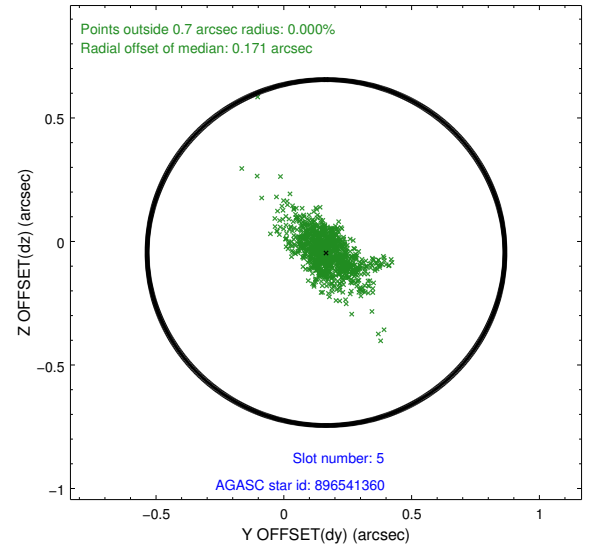
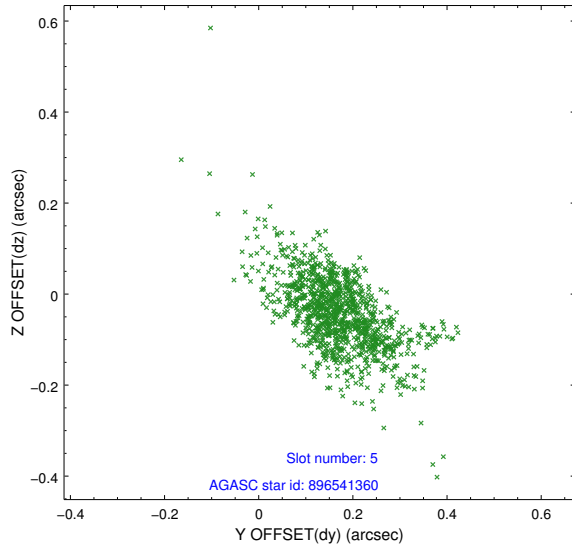
2.4.1 Slot 3



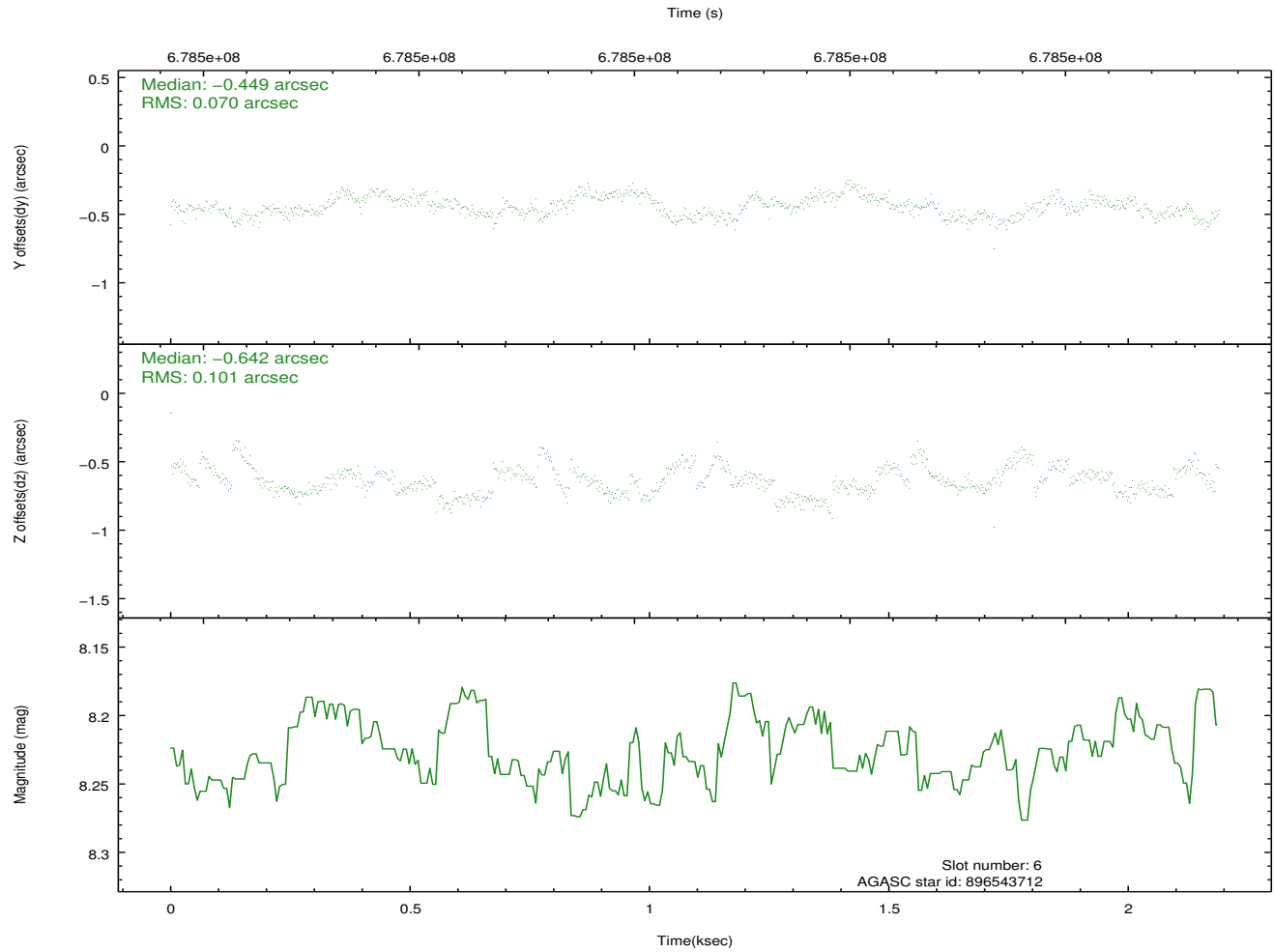
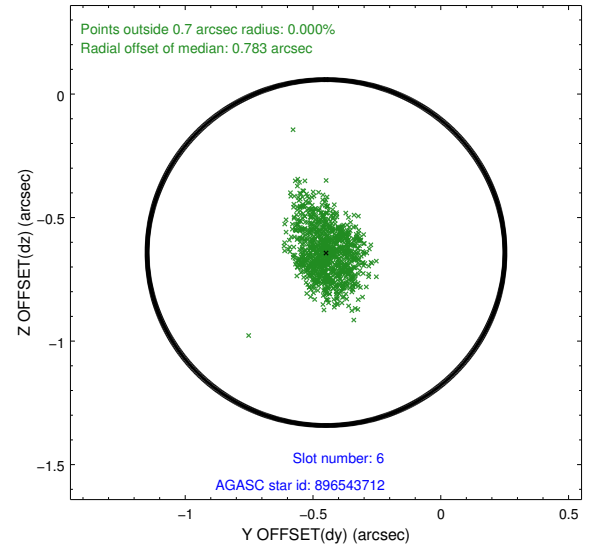
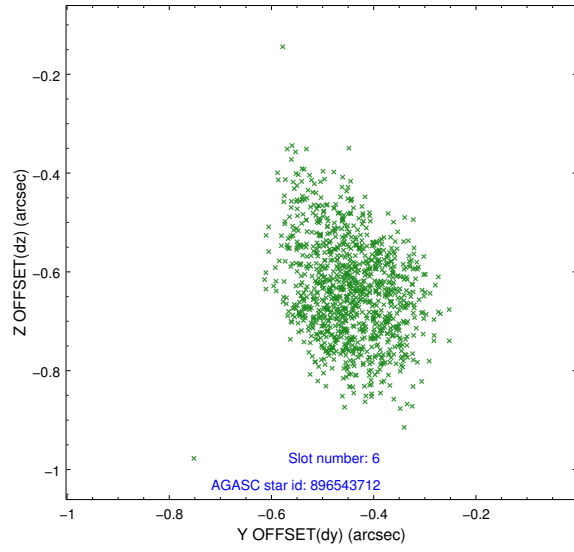
2.4.2 Slot 4



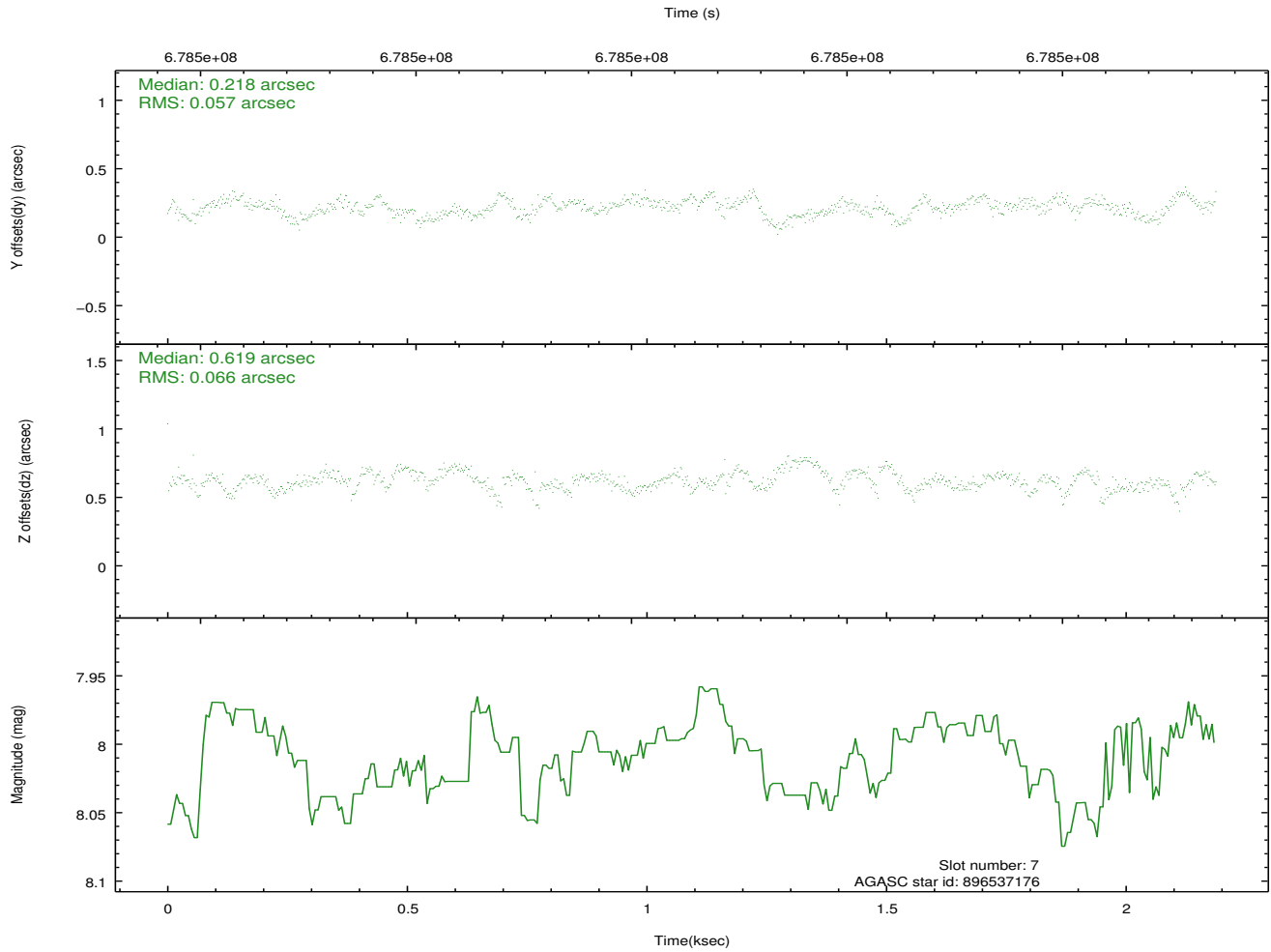
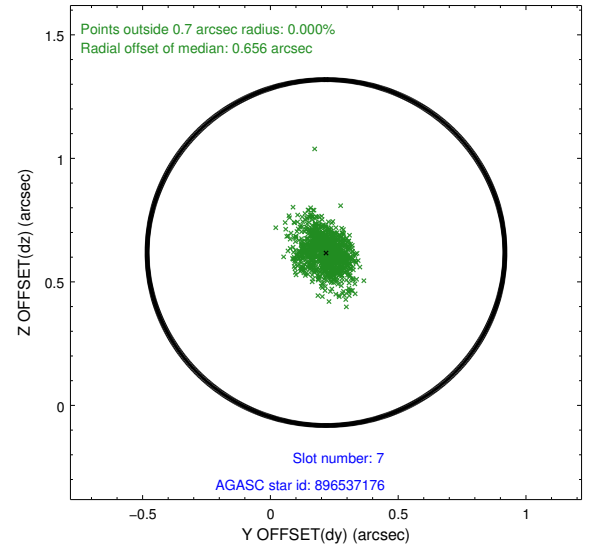
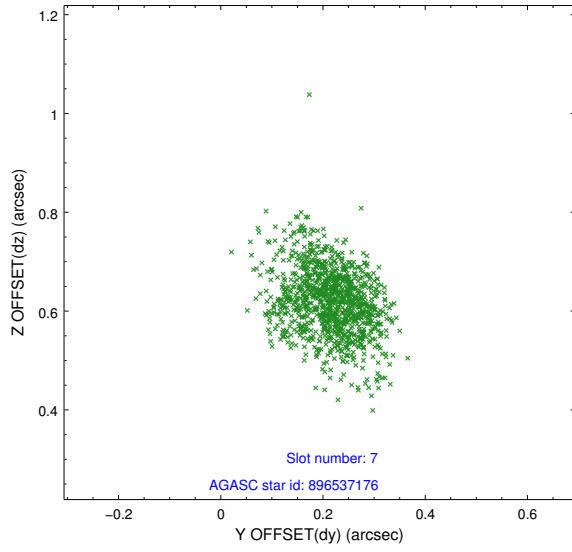
2.4.3 Slot 5



2.4.4 Slot 6

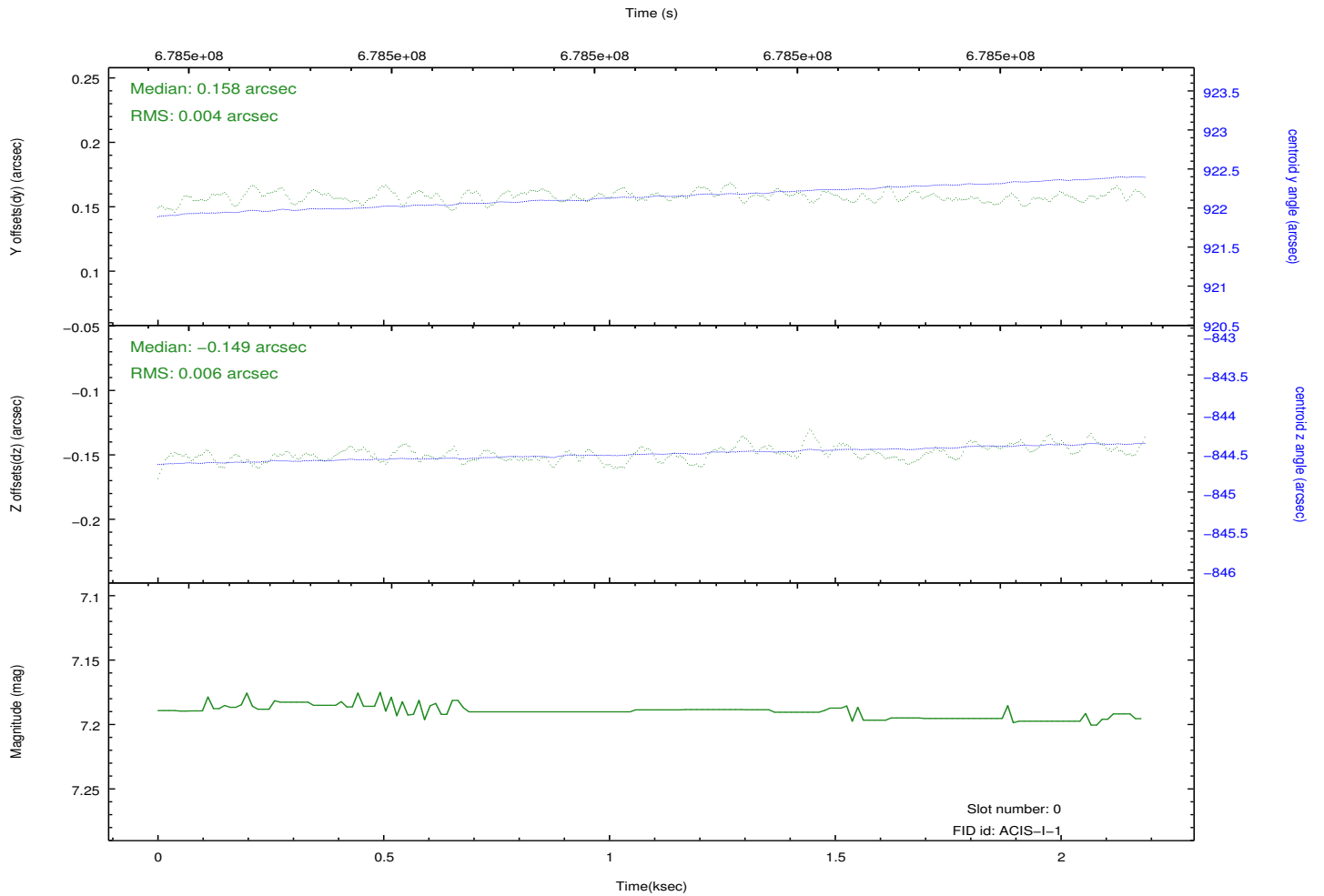
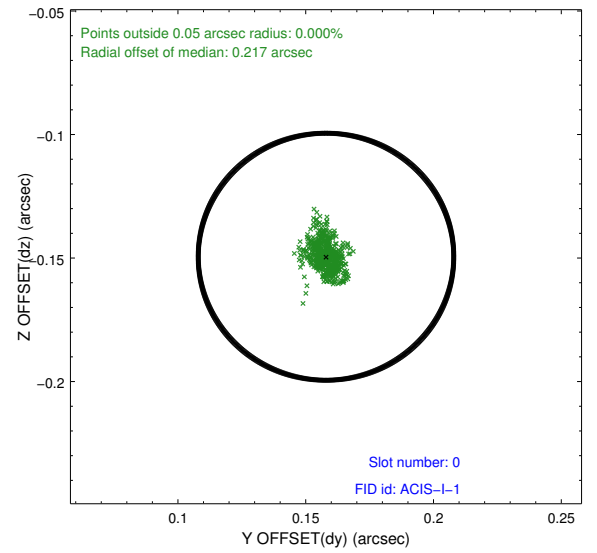
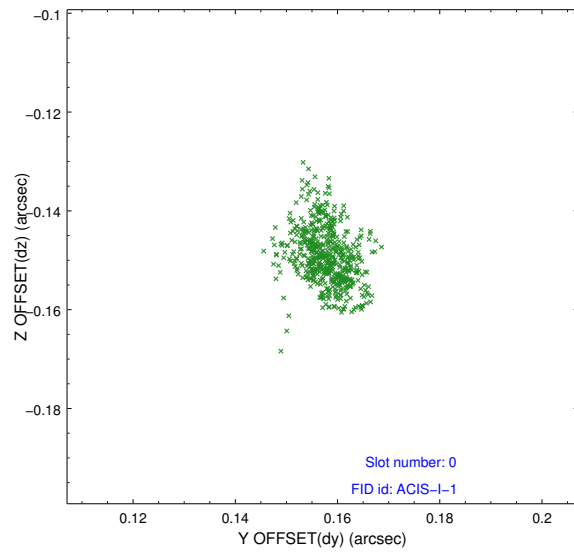


2.4.5 Slot 7

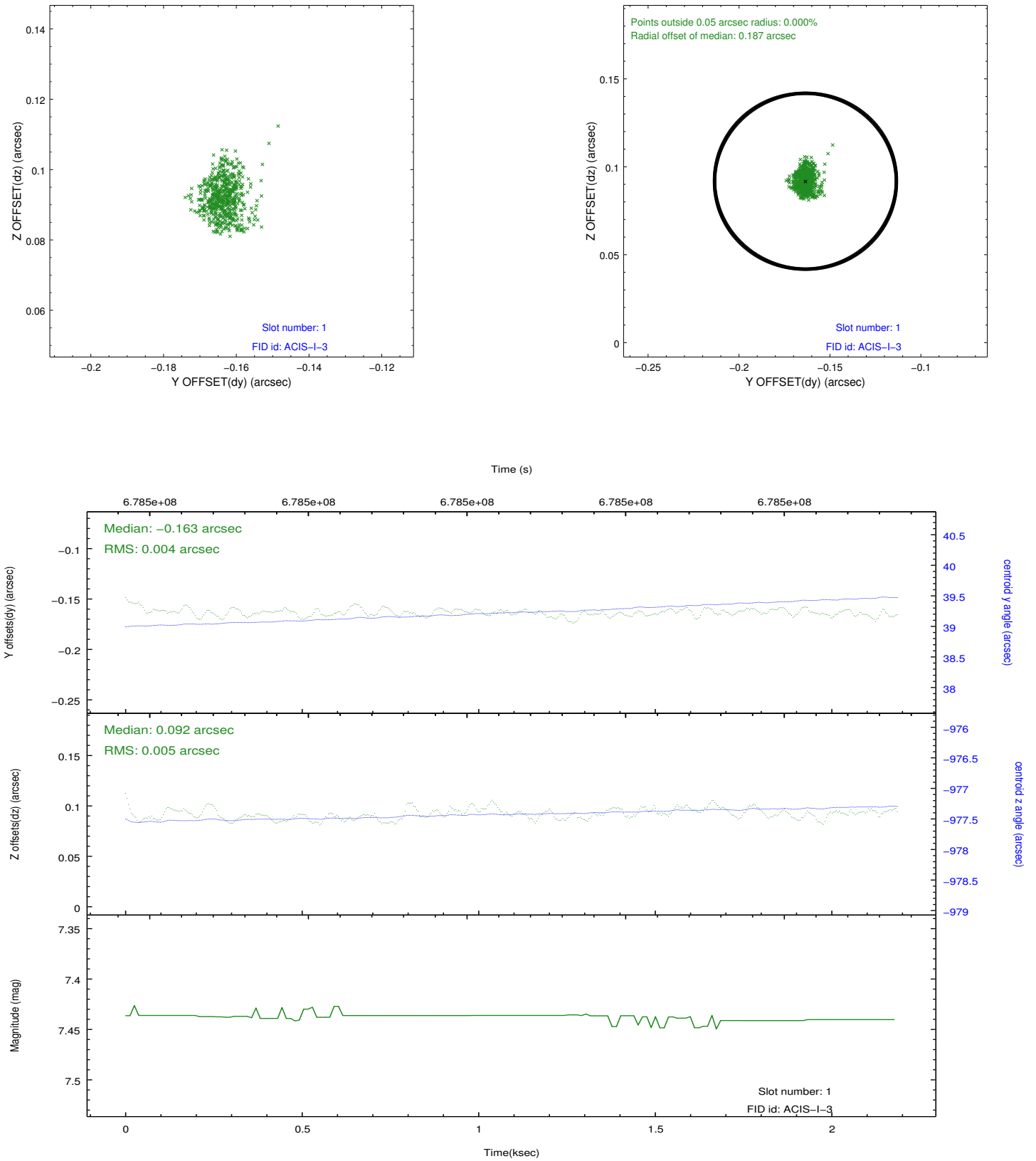


2.5 FID Slots

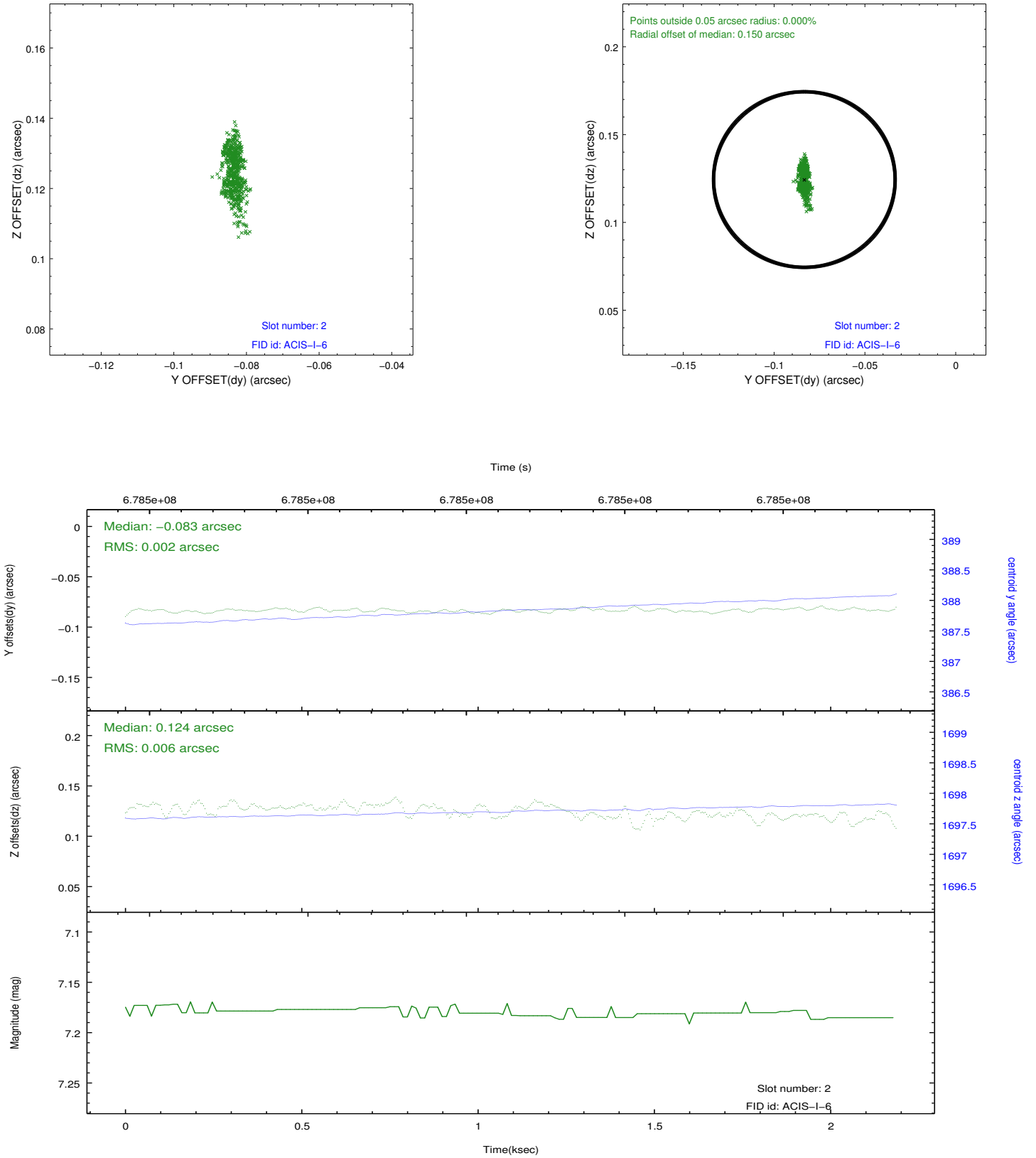
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9084685819149

A.2 Comments