

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21627 - L2 Version 1
Chandra X-Ray Center

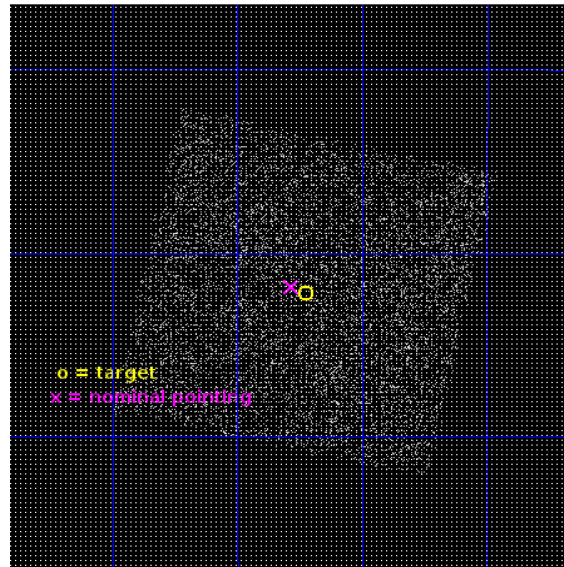
L2 Processing Date : Jul 29 2019

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1 Front

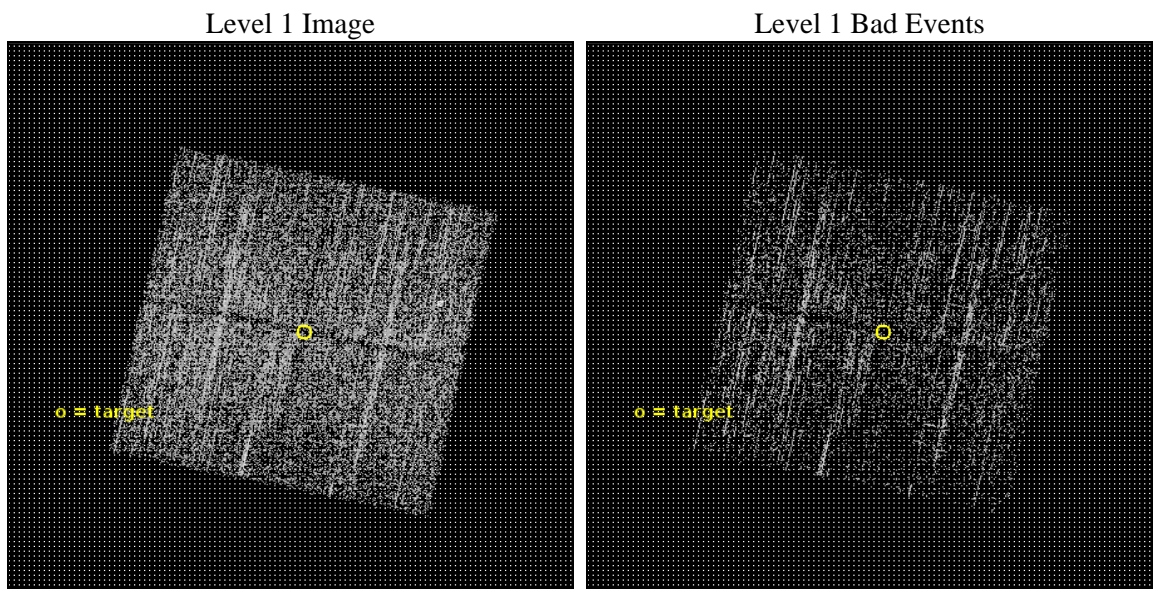
seq_num	300459	Sequence number
obs_id	21627	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.05668	Observer's specified target RA [deg]
dec_targ	-29.536818	Observer's specified target Dec [deg]
ra_nom	268.07085518343	Nominal RA [deg]
dec_nom	-29.530499903671	Nominal Dec [deg]
roll_nom	282.21560559237	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1909.3874624968	Sum of GTIs [s]
livetime	1884.4399096286	Livetime [s]
ontime0	1909.3464225531	Sum of GTIs [s]
ontime1	1909.3874624968	Sum of GTIs [s]
ontime2	1909.4285025597	Sum of GTIs [s]
ontime3	1909.4695527554	Sum of GTIs [s]
l2events	6698	Number of level 2 events



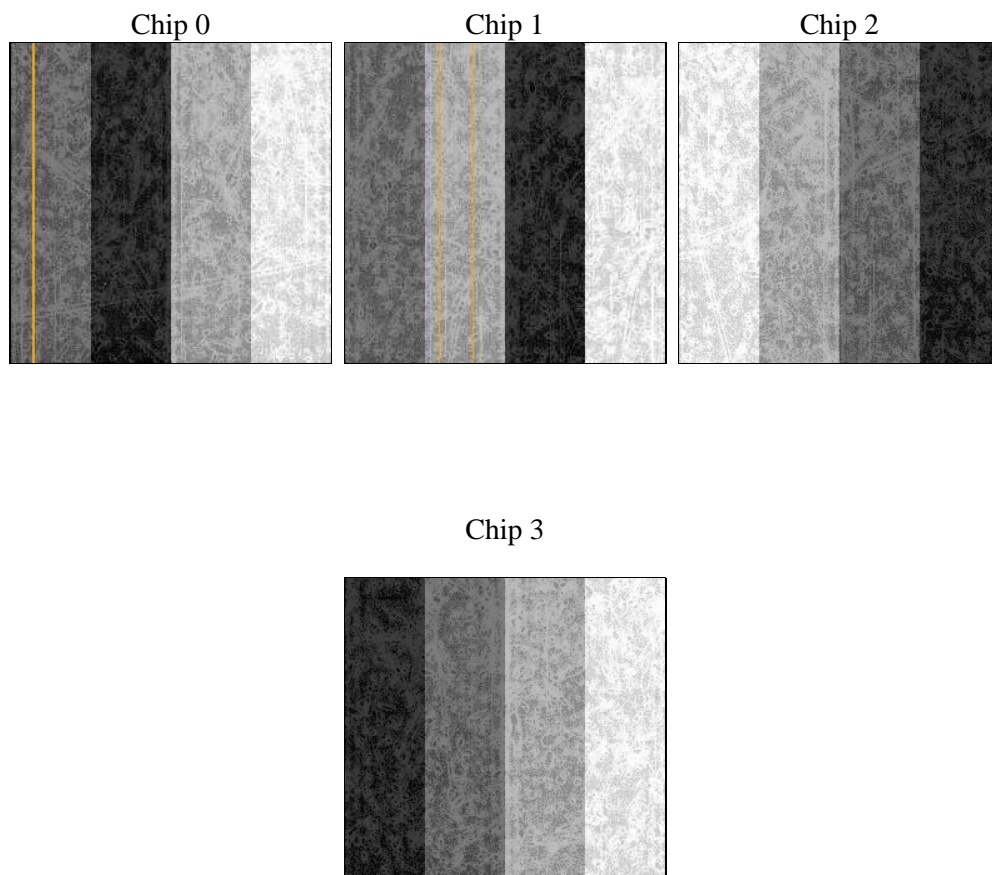
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1909.3874624968	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1909.3464225531	Sum of GTIs [s]
date	2019-07-29T14:48:30	Date and time of file creation	ontime1	1909.3874624968	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1909.4285025597	Sum of GTIs [s]
			ontime3	1909.4695527554	Sum of GTIs [s]
			l1events	58879	Number of level 1 events

2.1.4 Events

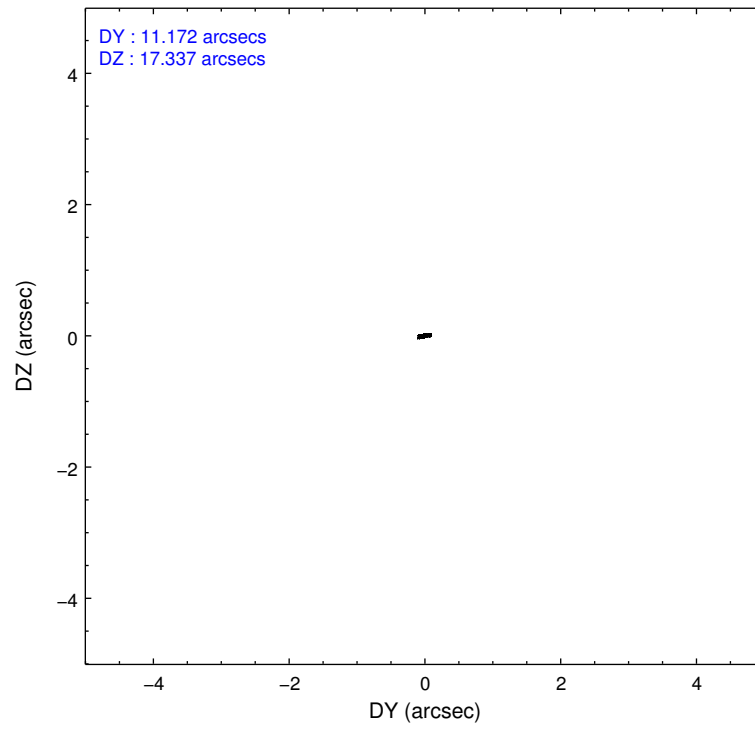
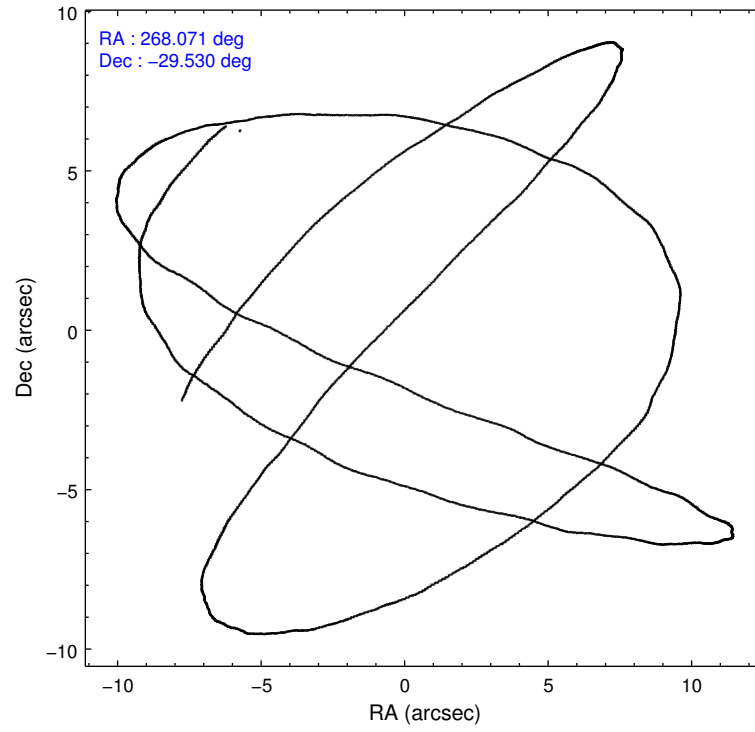
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	12352	15486	16391	14650
rejected events	10262	13118	14511	12851
rejected %	83%	84%	88%	87%

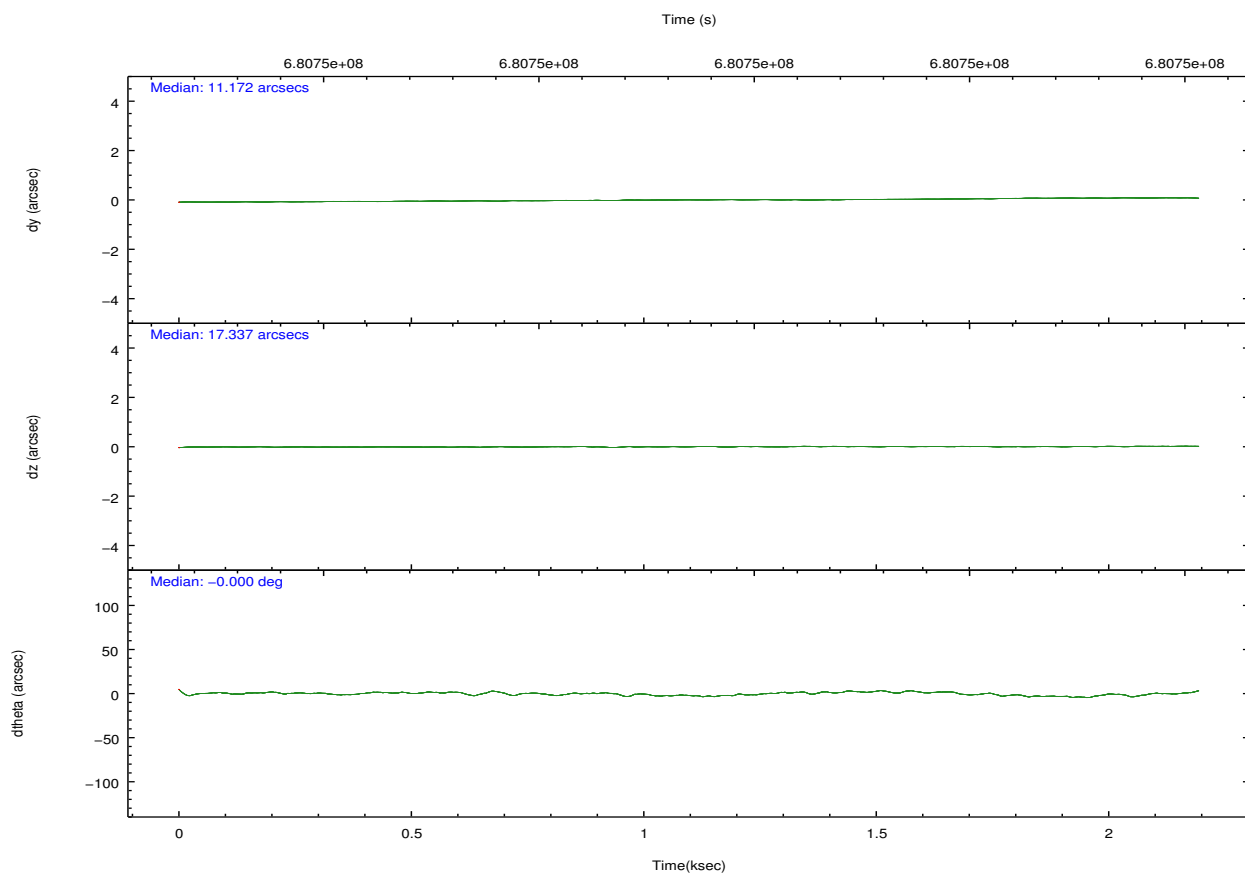
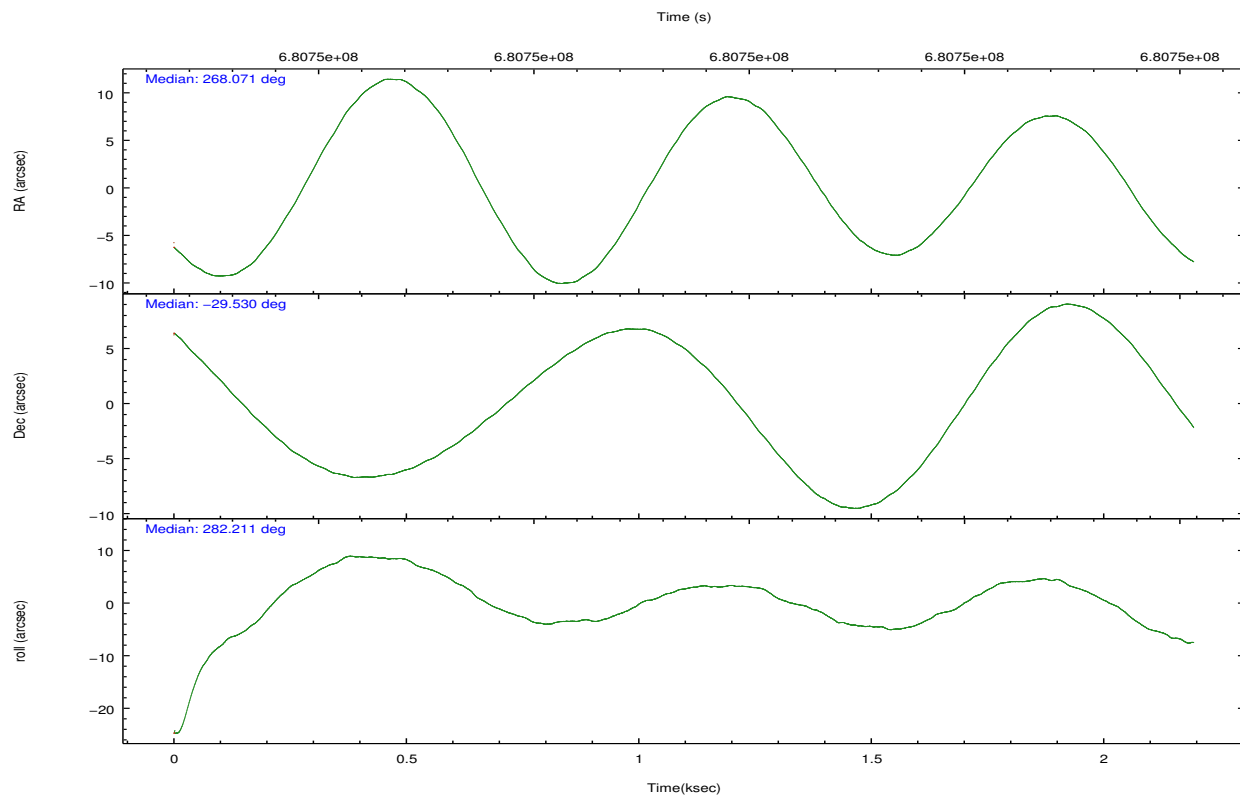
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	926	1082	803	756
	7%	6%	4%	5%
grade 1 events	4	12	6	8
	0%	0%	0%	0%
grade 2 events	451	529	370	370
	3%	3%	2%	2%
grade 3 events	187	168	170	196
	1%	1%	1%	1%
grade 4 events	160	160	171	150
	1%	1%	1%	1%
grade 5 events	608	587	552	615
	4%	3%	3%	4%
grade 6 events	369	434	369	331
	2%	2%	2%	2%
grade 7 events	9647	12514	13950	12224
	78%	80%	85%	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	268.049487	268.0708551834298	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.510226	-29.53049990367113	Alternating exposures requested	N	N
[deg] Pointing Roll	281.996457	282.215605592373	[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)	680745942.184000	680745523.41831			
Observation start date	2019-07-29T00:04:33	2019-07-28T23:58:43			
[s] Observation end time (MET)	680747942.184000	680748075.66846			
Observation end date	2019-07-29T00:37:53	2019-07-29T00:41:15			
Read mode	TIMED	TIMED			

2.3 Aspect



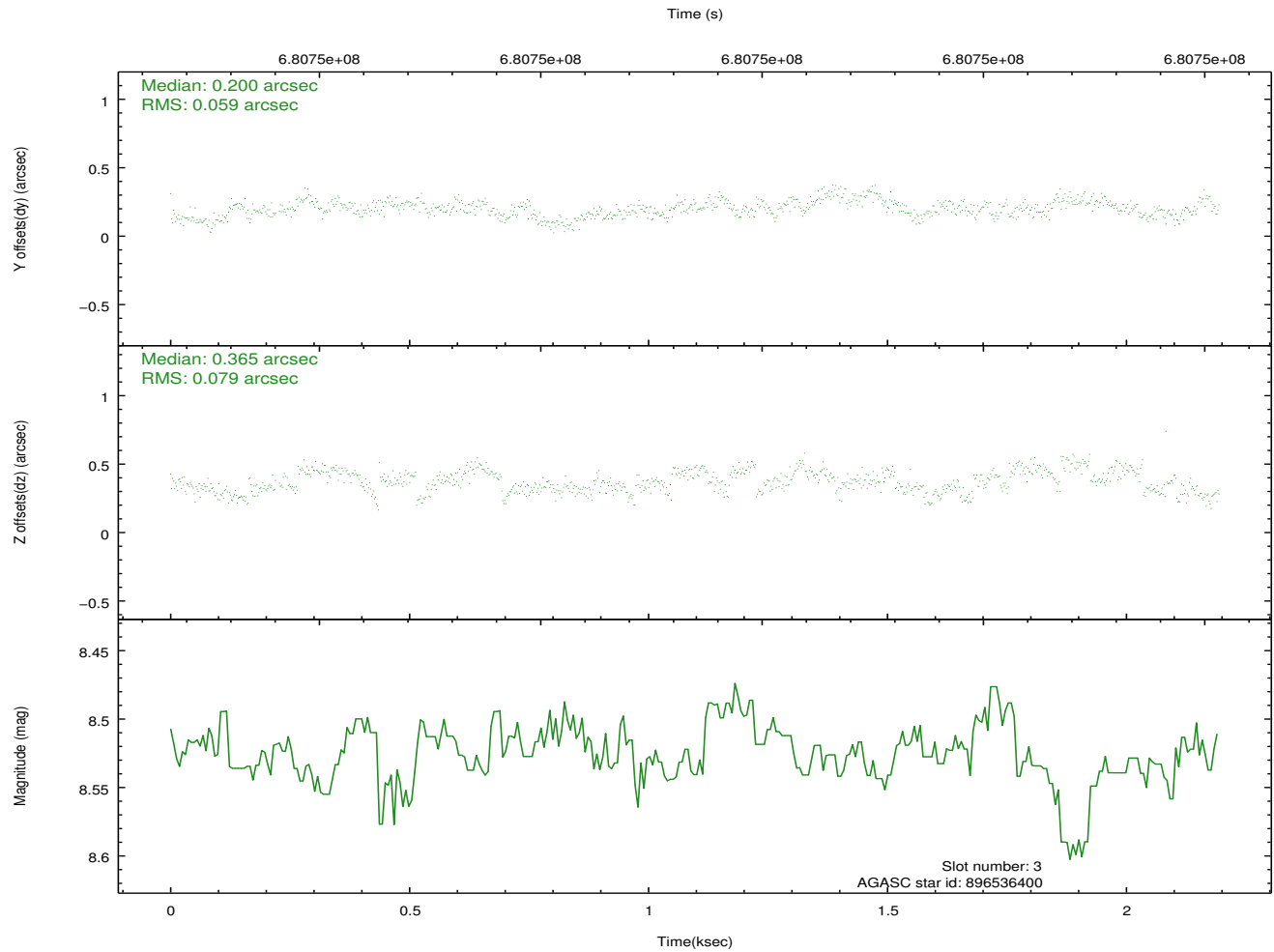
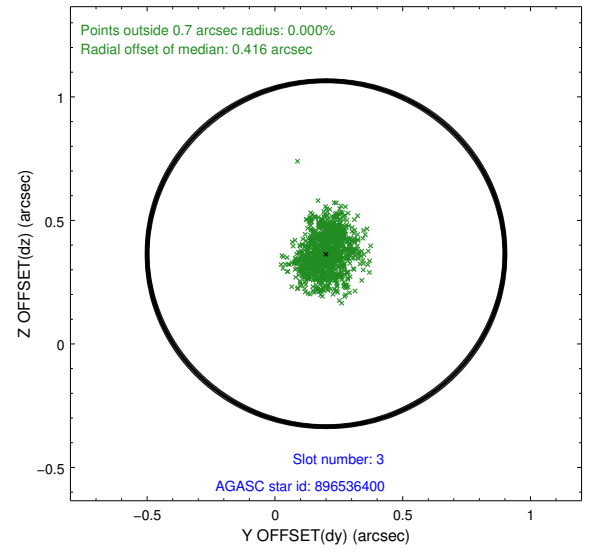
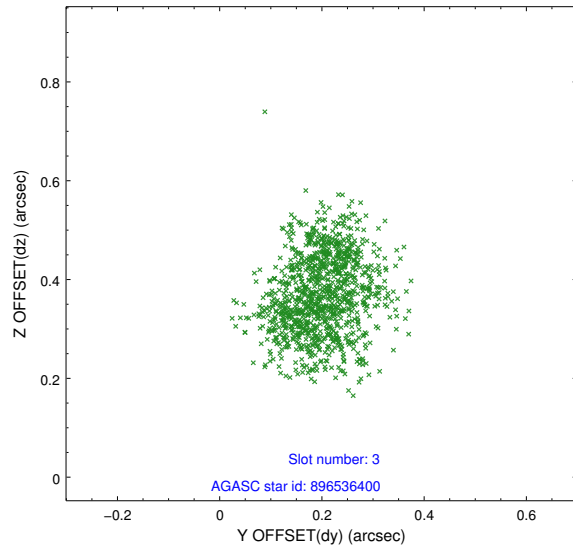


Slot Statistics

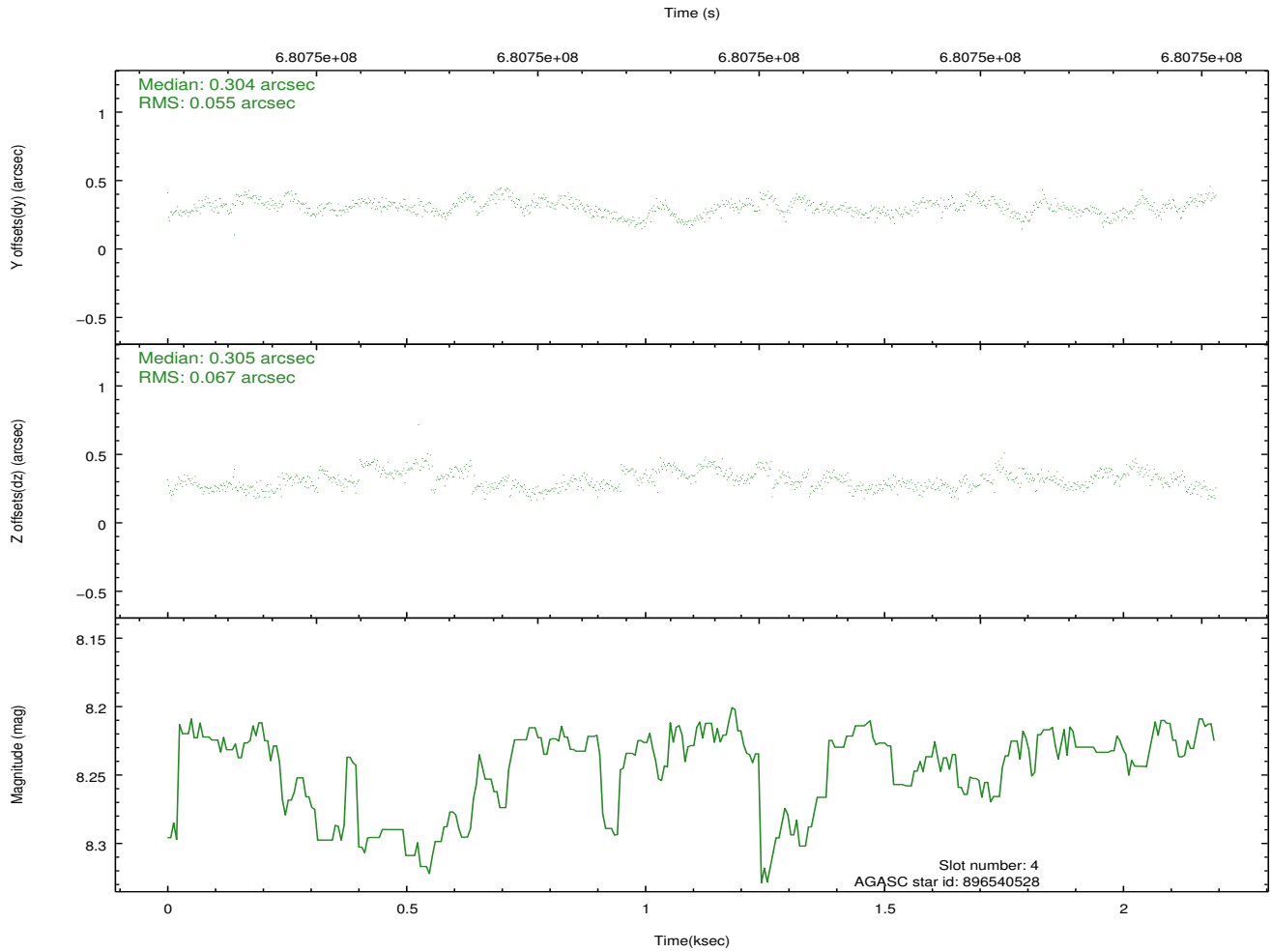
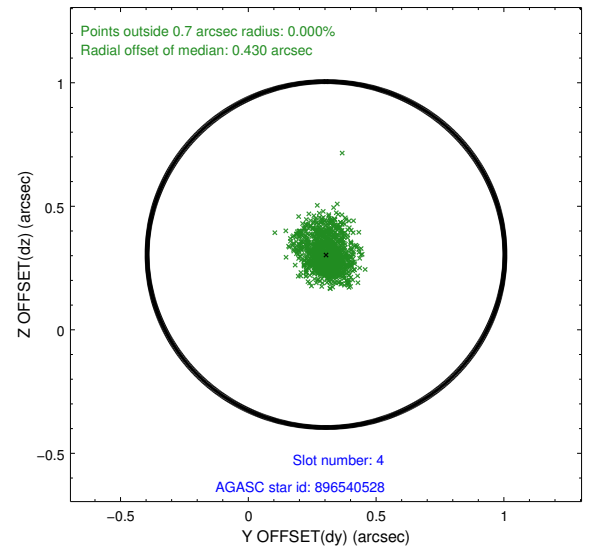
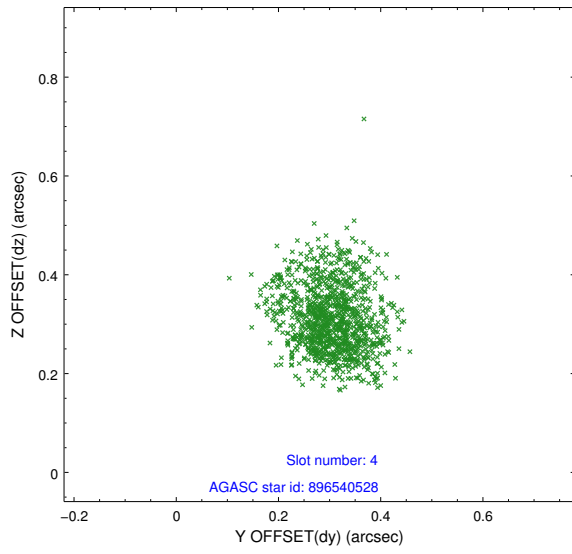
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.13	536	1.000	-0.420	-0.350	0.008	0.014	0.000000	0.000000	-766.22	-847
1	FID		ACIS-I-3	7.47	536	1.000	-0.152	0.068	0.011	0.019	0.000000	0.000000	44.20	-975
2	FID		ACIS-I-4	7.16	536	1.000	0.474	0.348	0.007	0.016	0.000000	0.000000	2148.94	1057
3	GUIDE	used	896536400	8.53	1068	1.000	0.200	0.365	0.108	0.166	267.359146	-29.438655	-693.88	-2064
4	GUIDE	used	896540528	8.24	1071	1.000	0.304	0.305	0.092	0.144	267.368305	-29.314773	-1125.56	-1947
5	GUIDE	used	898252088	8.46	1070	1.000	-0.325	-0.253	0.108	0.155	268.786499	-29.811415	1545.52	2023
6	GUIDE	used	967050920	7.60	1069	1.000	-0.144	-0.353	0.081	0.123	268.870727	-30.021750	2344.16	2121
7	GUIDE	used	898248800	8.16	1069	1.000	-0.038	-0.080	0.088	0.132	267.977609	-29.931731	1440.71	-532

2.4 Star Slots

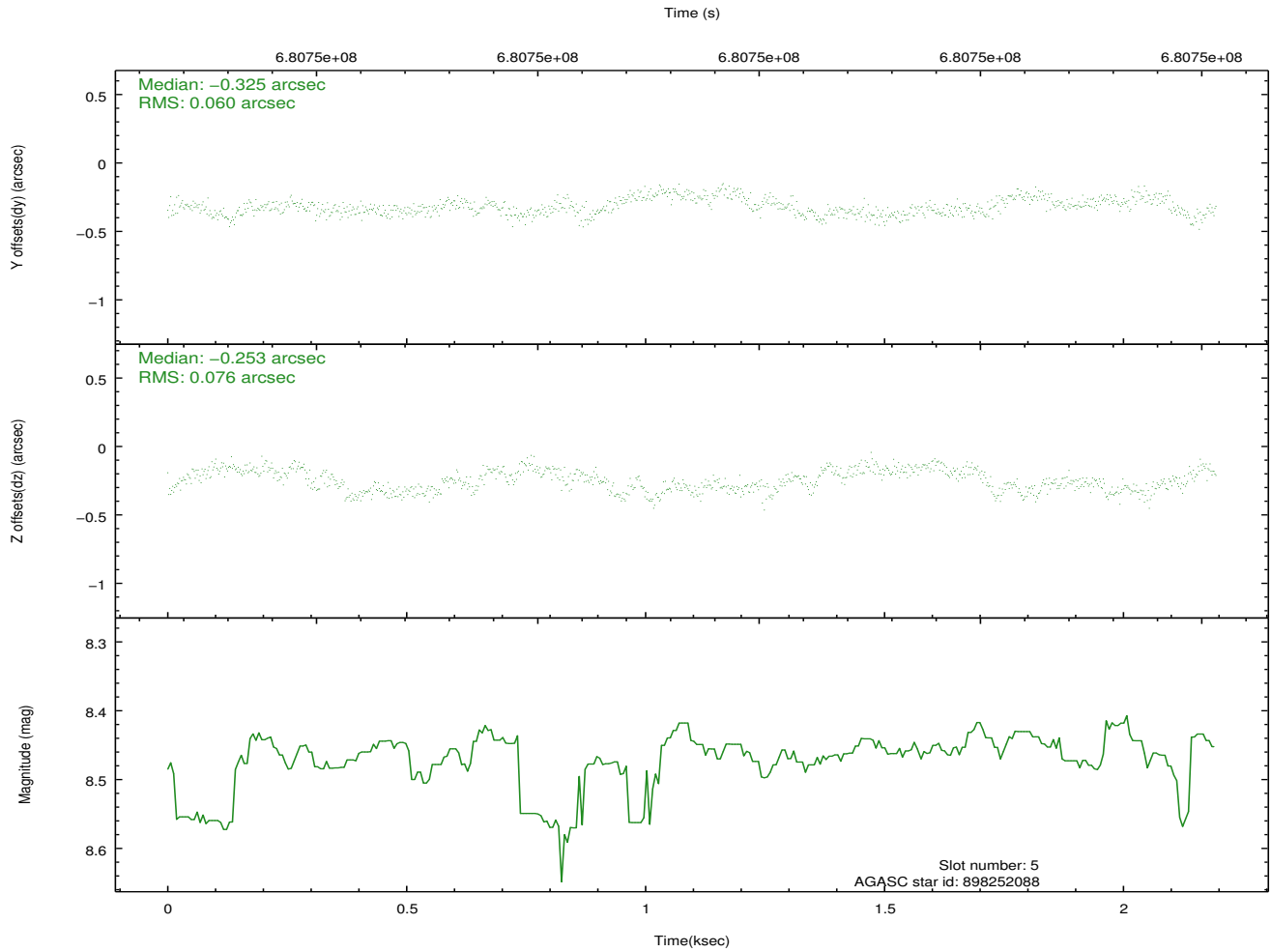
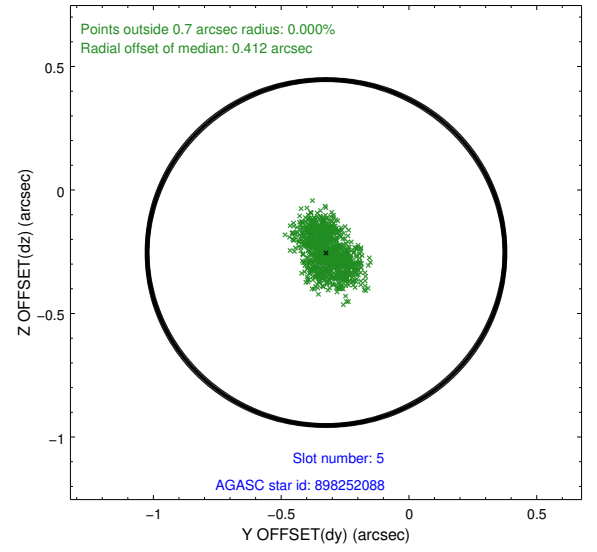
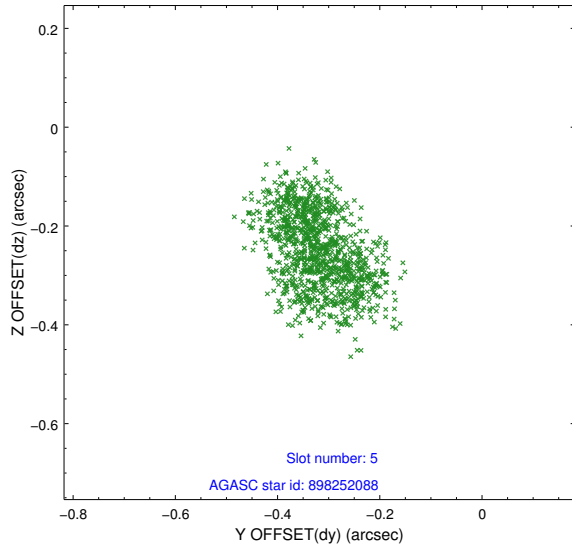
2.4.1 Slot 3



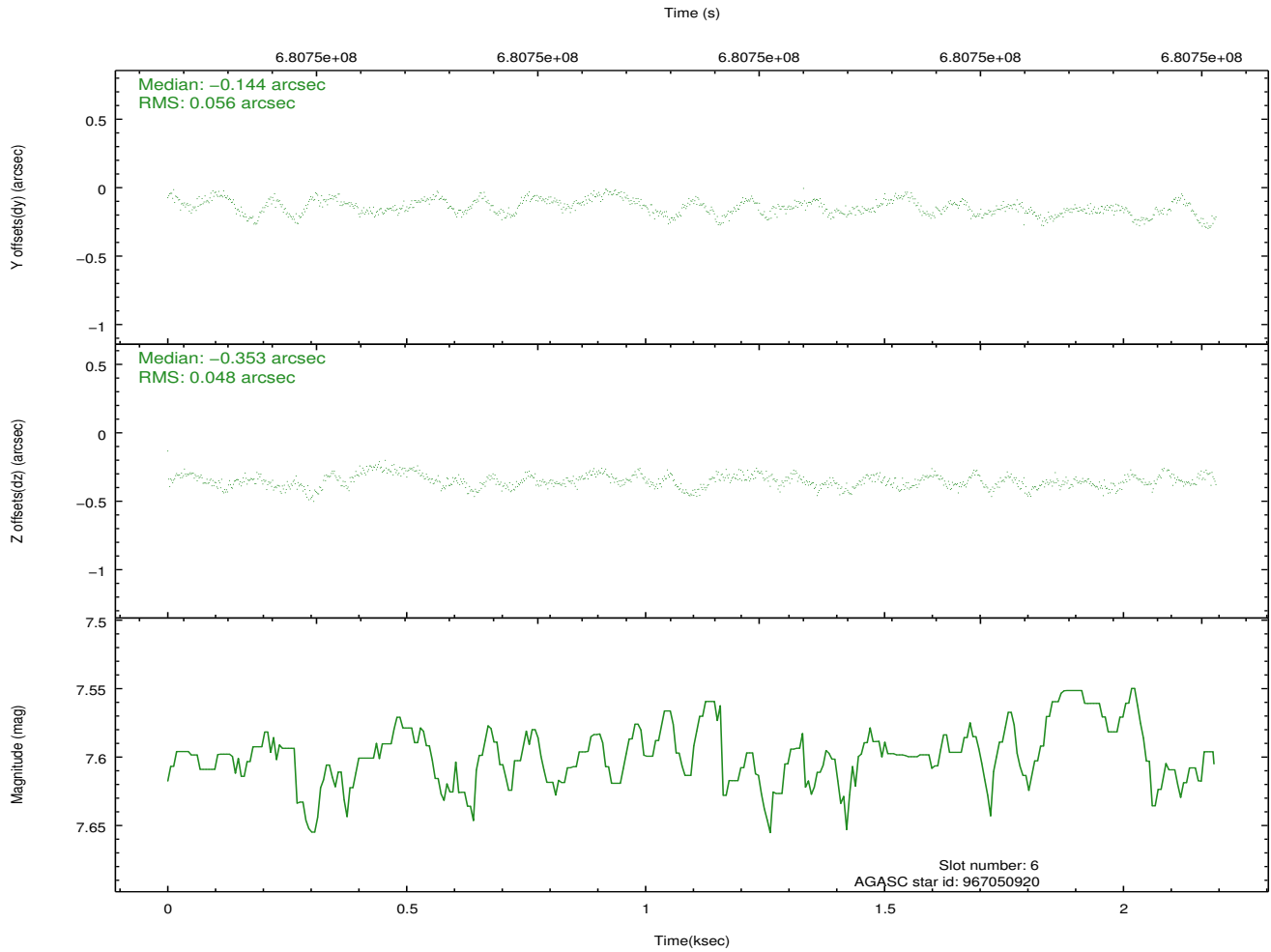
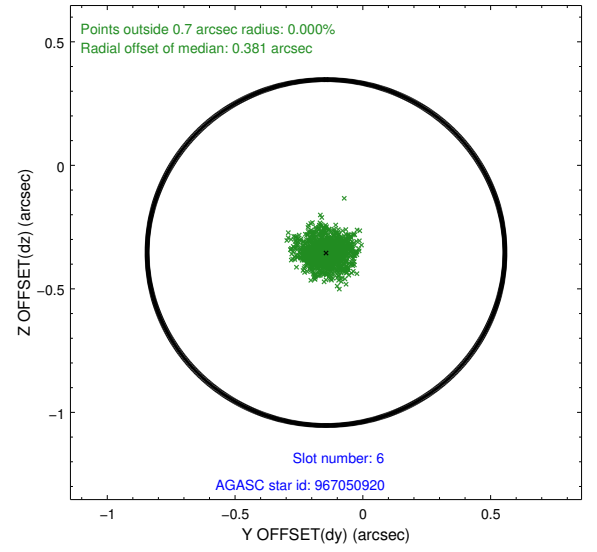
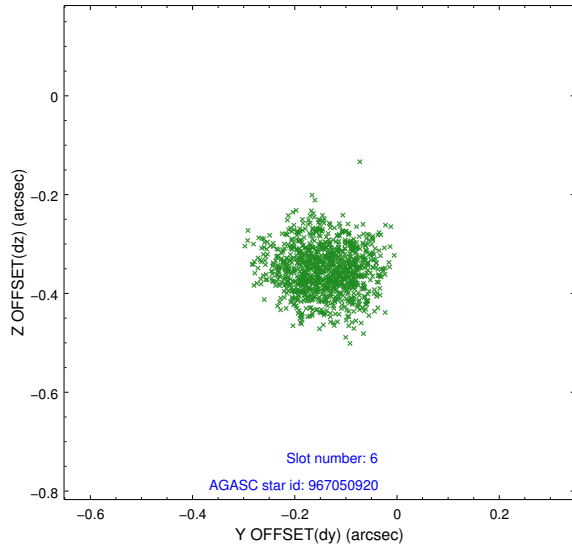
2.4.2 Slot 4



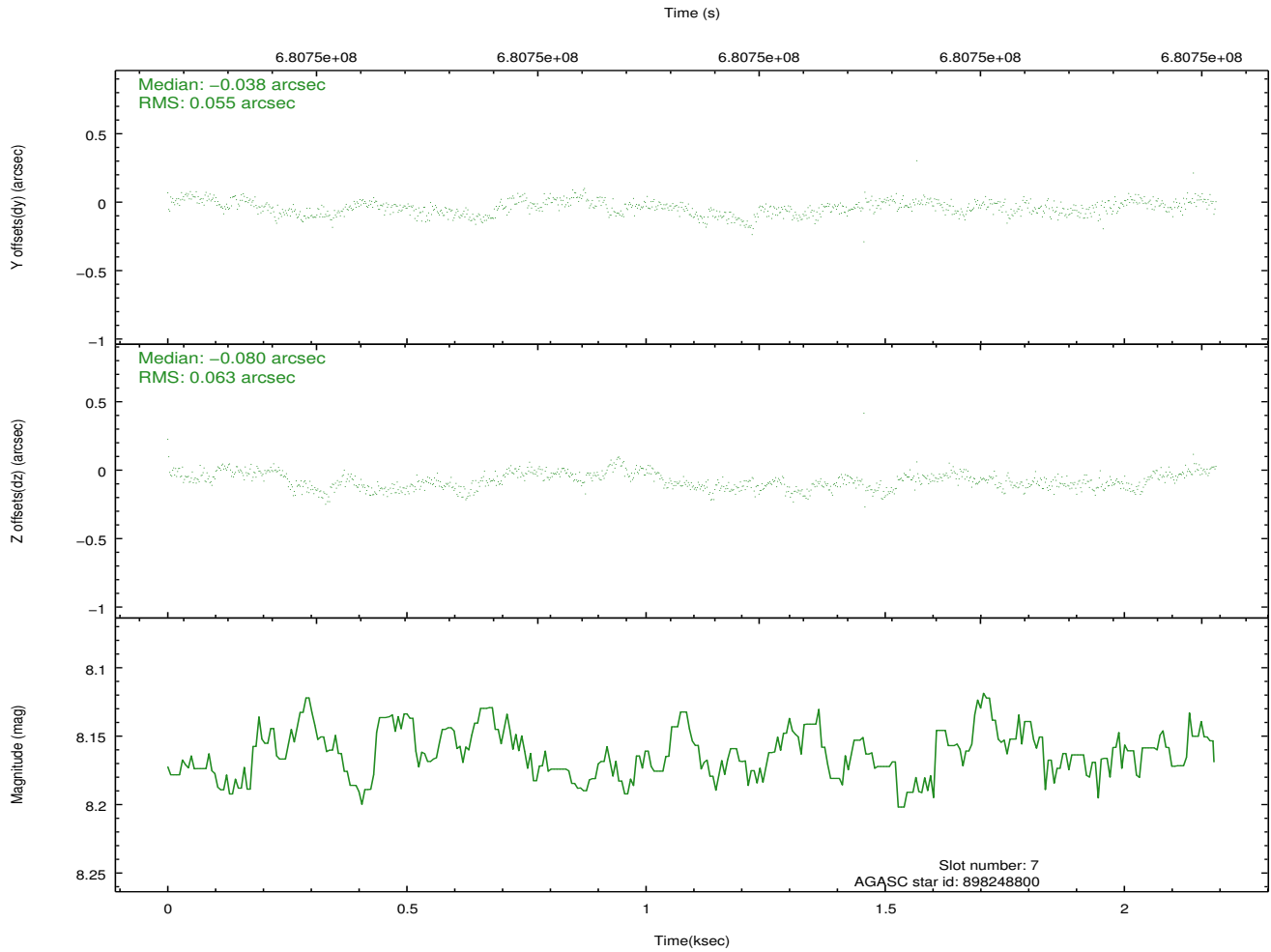
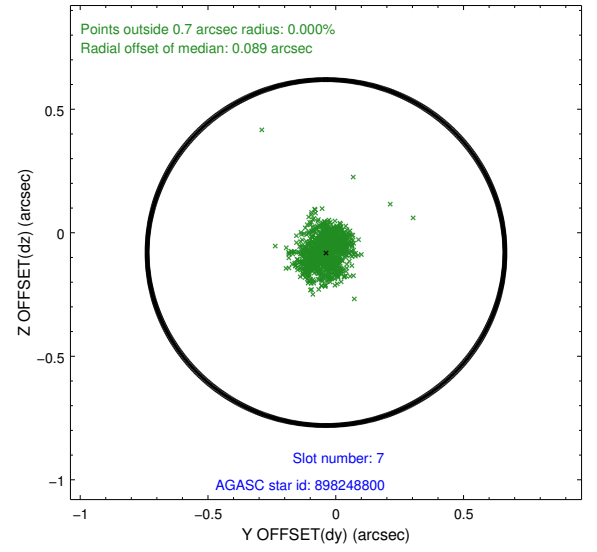
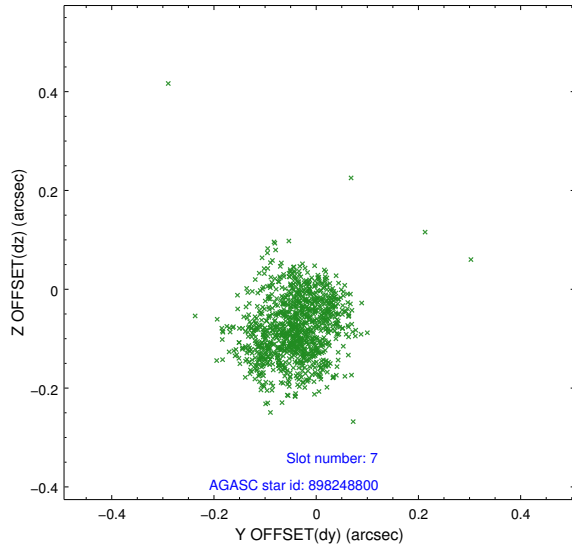
2.4.3 Slot 5



2.4.4 Slot 6

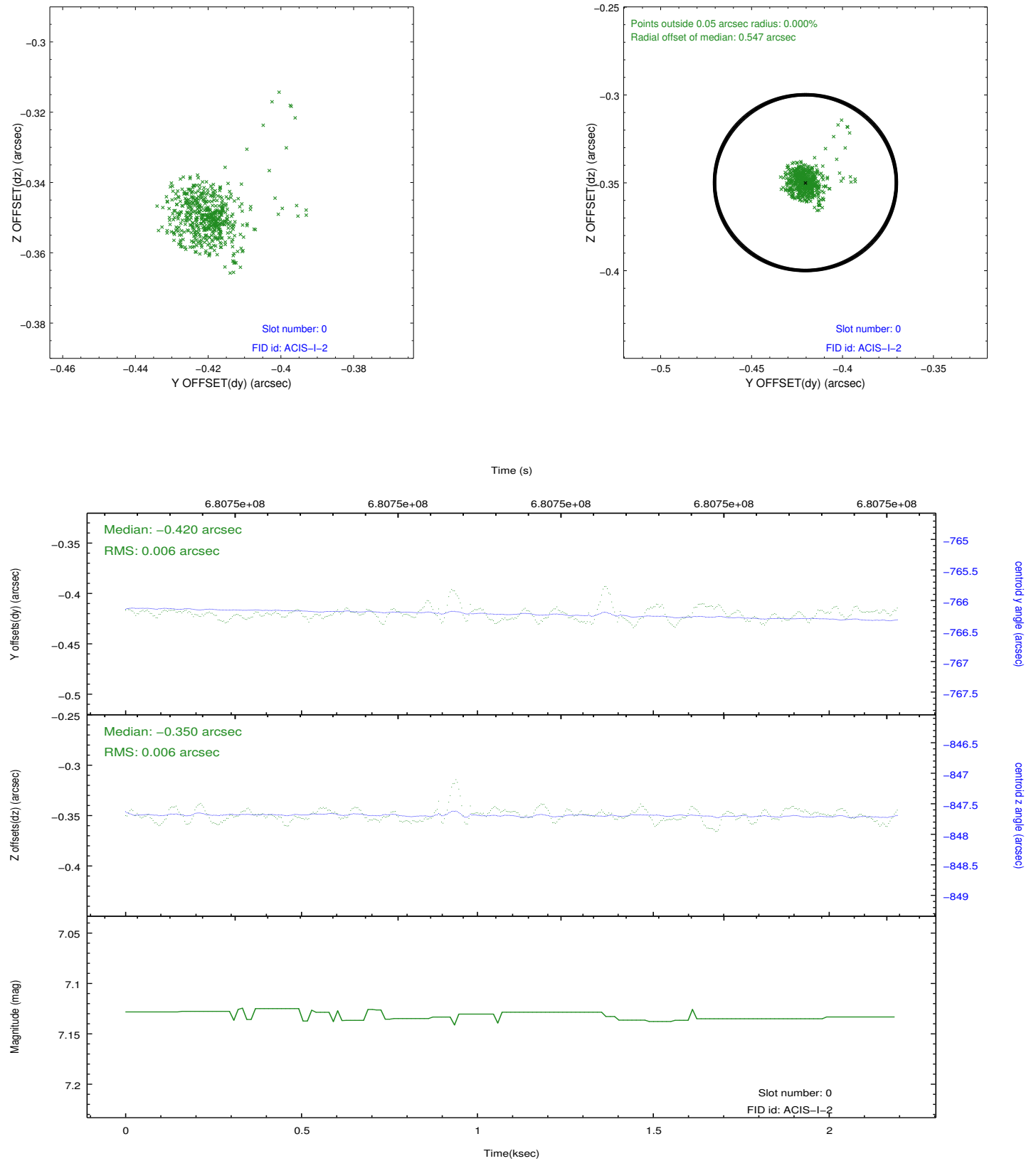


2.4.5 Slot 7

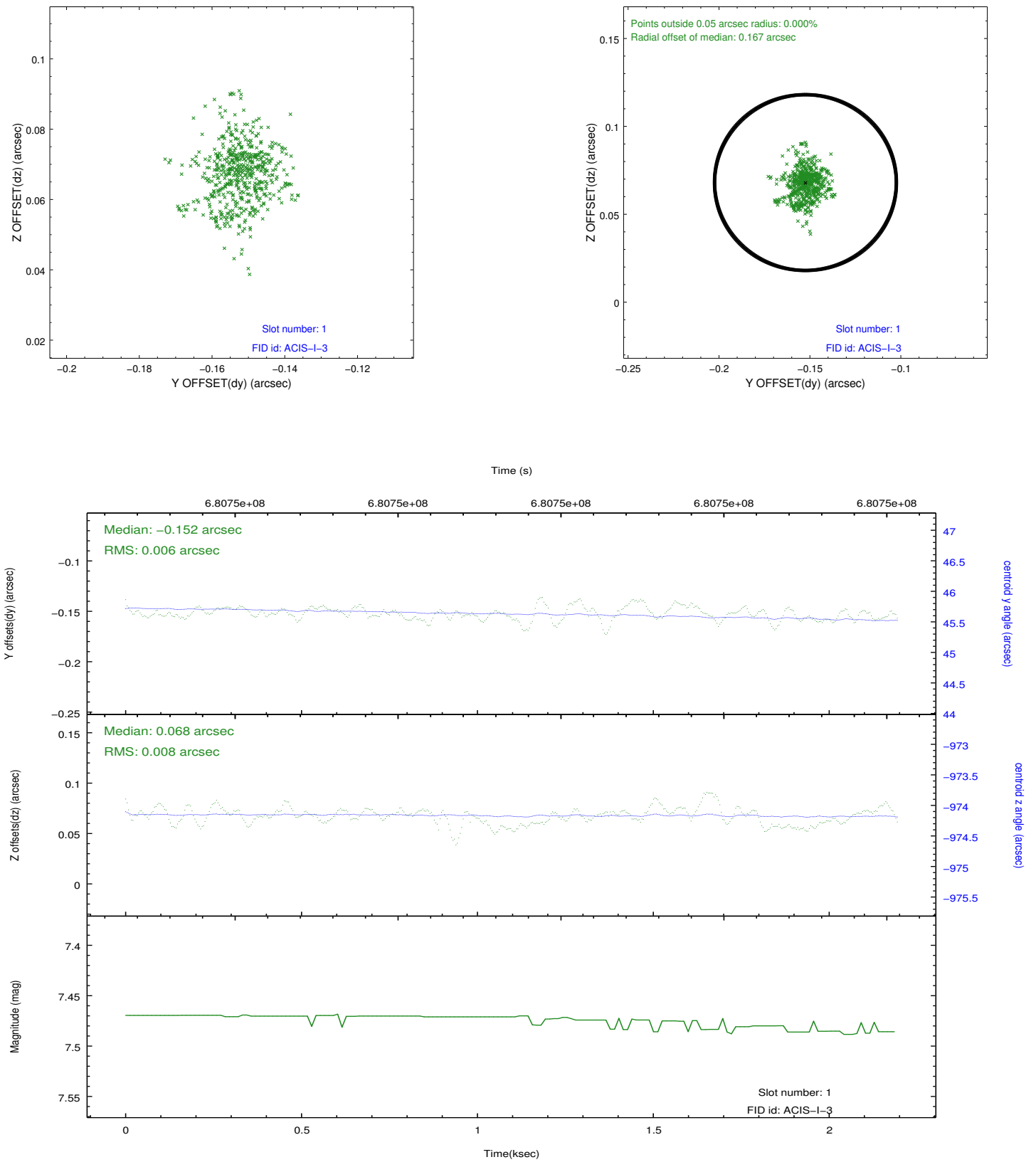


2.5 FID Slots

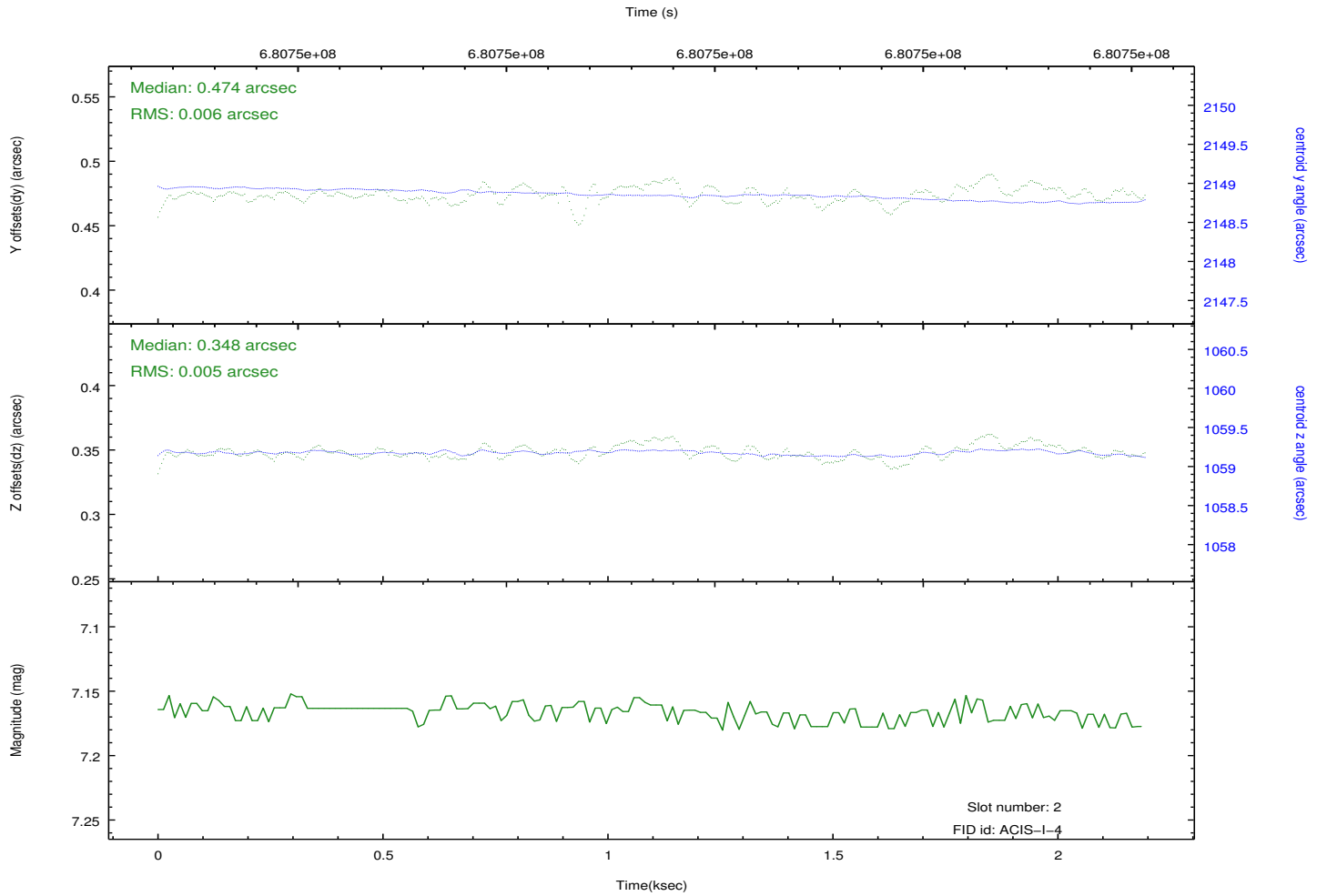
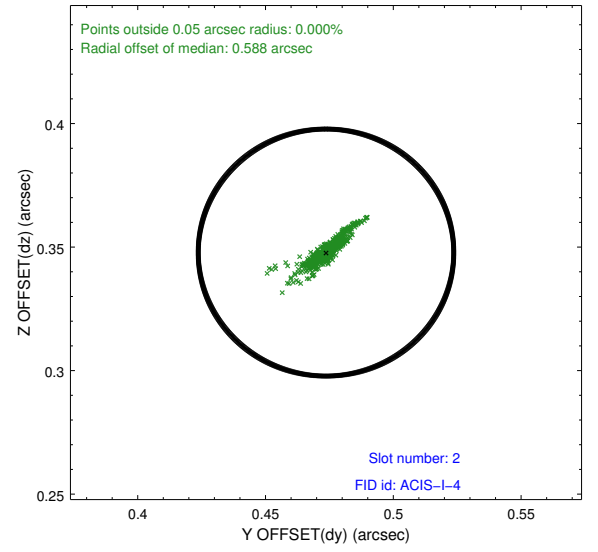
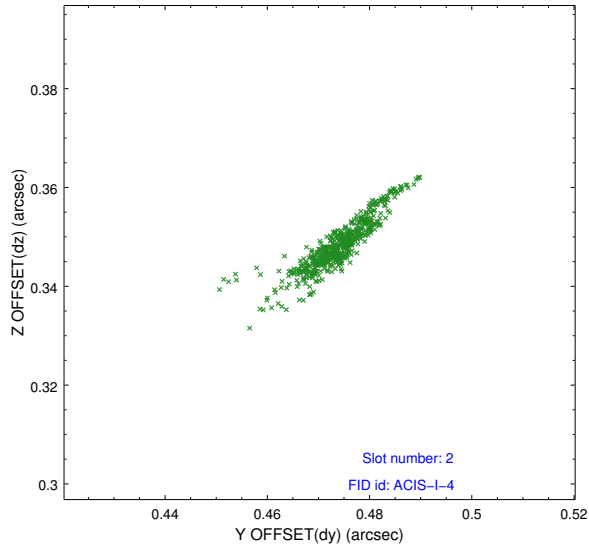
2.5.1 Slot 0



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)	2019.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9093874624968

A.2 Comments