

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22123 - L2 Version 1
Chandra X-Ray Center

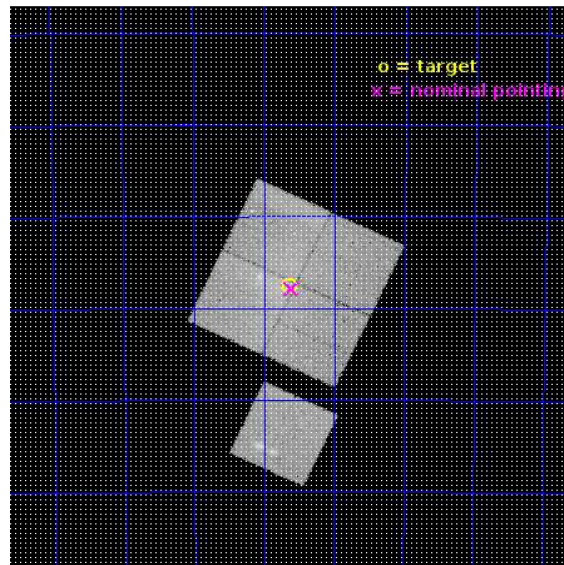
L2 Processing Date : Feb 28 2019

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1 Front

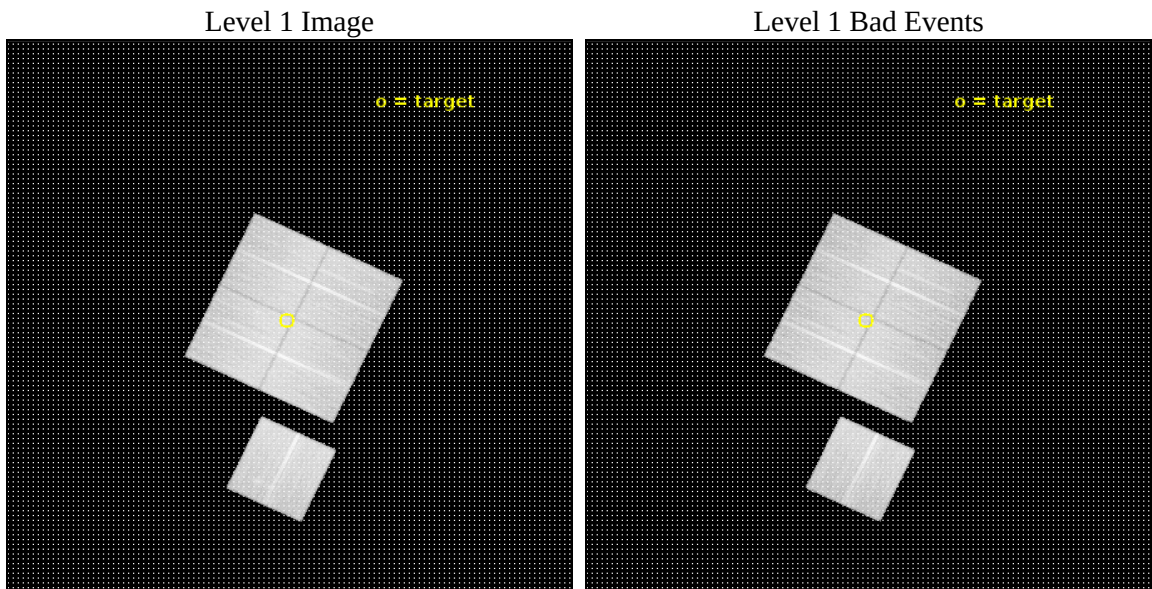
seq_num	801744	Sequence number
obs_id	22123	Observation id
title	Double bullet cluster A4067	Proposal title
observer	Chong Ge	Principal investigator
object	Abell 4067	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.660833	Observer's specified target RA [deg]
dec_targ	-60.625806	Observer's specified target Dec [deg]
ra_nom	359.65246720676	Nominal RA [deg]
dec_nom	-60.631348167096	Nominal Dec [deg]
roll_nom	205.20138149522	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40069.436093211	Sum of GTIs [s]
livetime	39545.899411964	Livetime [s]
ontime0	40066.172032833	Sum of GTIs [s]
ontime1	40063.072032928	Sum of GTIs [s]
ontime2	40066.254083037	Sum of GTIs [s]
ontime3	40069.436093211	Sum of GTIs [s]
ontime6	40069.271933198	Sum of GTIs [s]
l2events	166202	Number of level 2 events



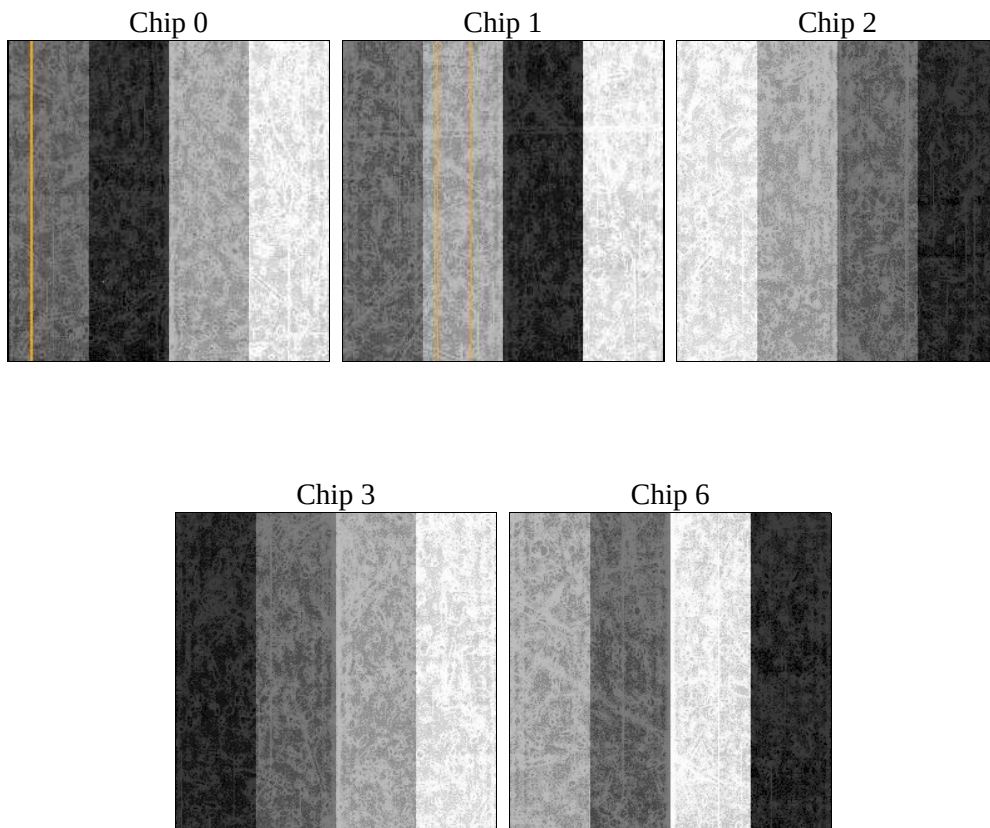
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	40069.436093211	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	40066.172032833	Sum of GTIs [s]
date	2019-02-28T05:36:15	Date and time of file creation	ontime1	40063.072032928	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40066.254083037	Sum of GTIs [s]
			ontime3	40069.436093211	Sum of GTIs [s]
			ontime6	40069.271933198	Sum of GTIs [s]
			l1events	1509155	Number of level 1 events

2.1.4 Events

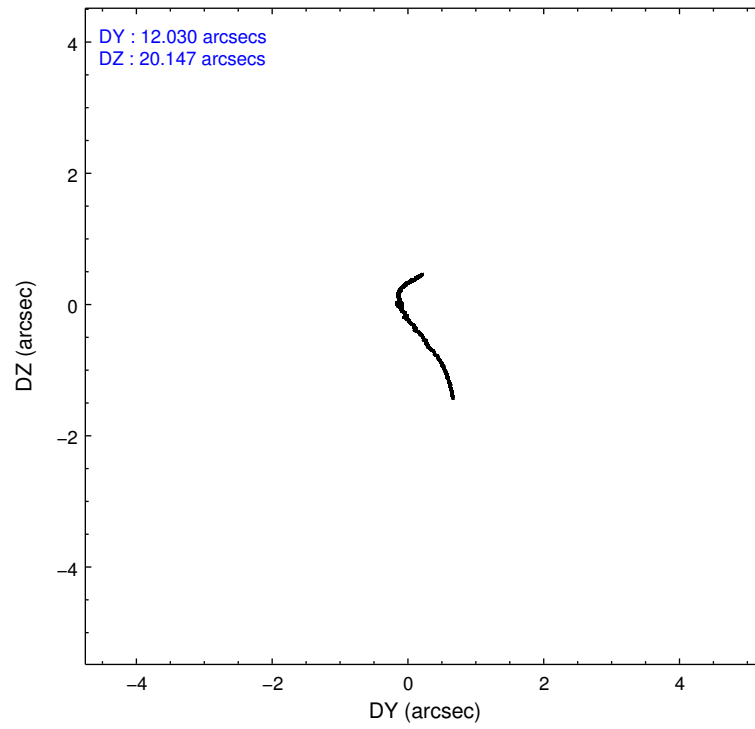
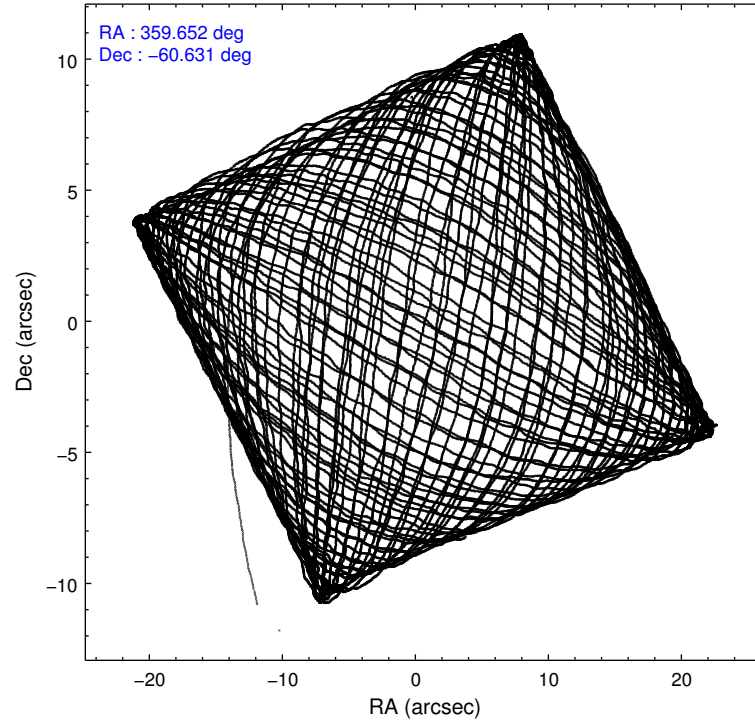
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	278832	290165	316008	314424	309726
rejected events	243188	246402	279436	272642	272216
rejected %	87%	84%	88%	86%	87%

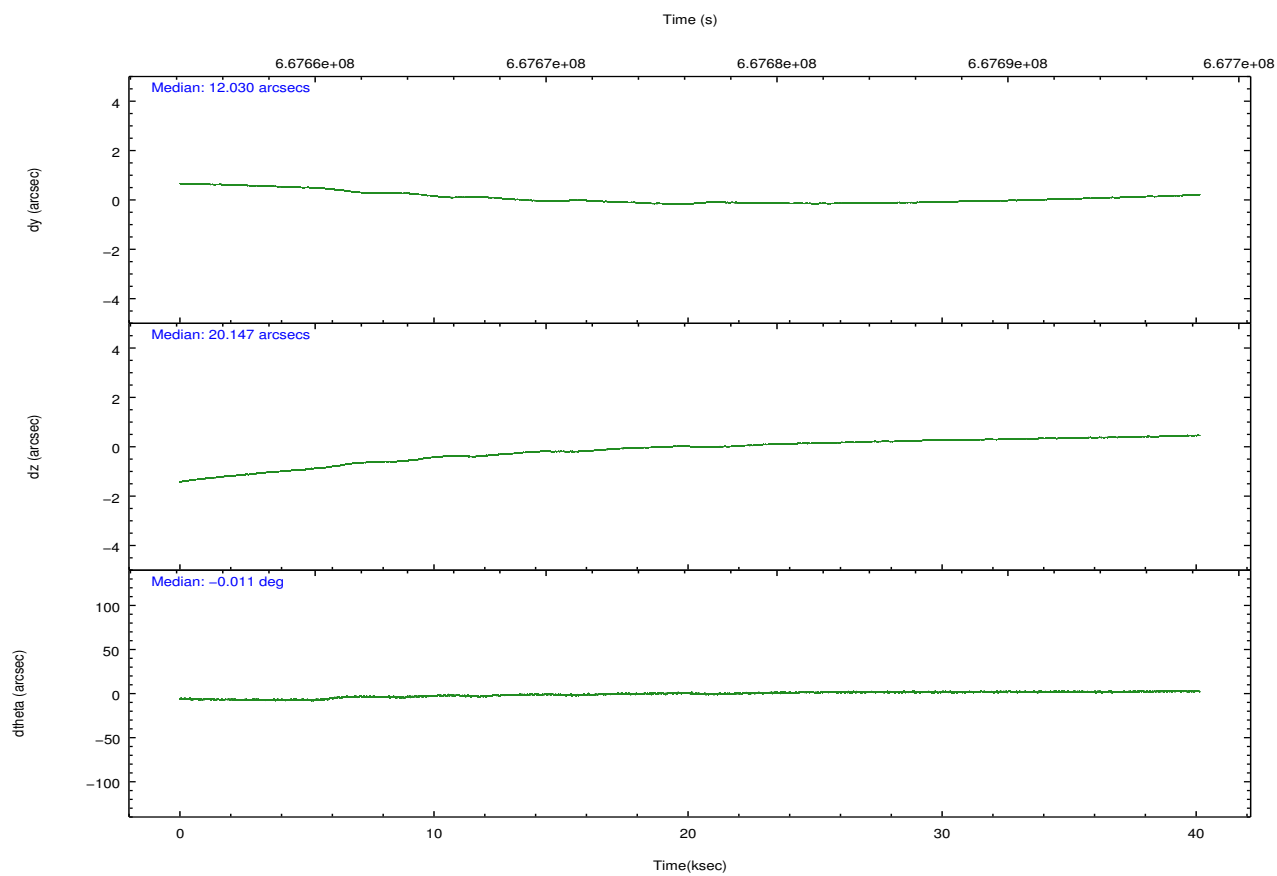
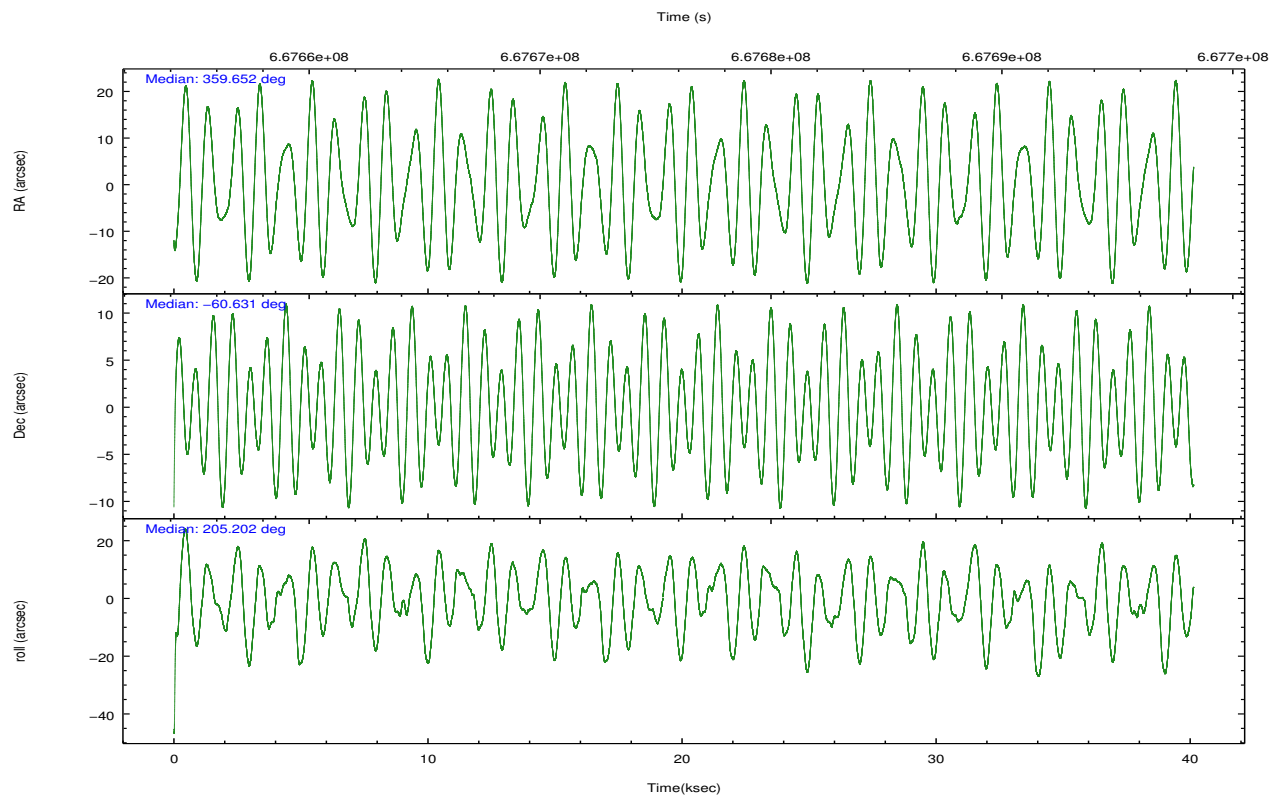
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	12757	16885	13994	19247	13578
	4%	5%	4%	6%	4%
grade 1 events	198	180	192	207	155
	0%	0%	0%	0%	0%
grade 2 events	9032	10670	8963	8379	8548
	3%	3%	2%	2%	2%
grade 3 events	3460	3693	3337	3666	3565
	1%	1%	1%	1%	1%
grade 4 events	3291	3826	3515	3567	3593
	1%	1%	1%	1%	1%
grade 5 events	13408	13859	12867	14783	14188
	4%	4%	4%	4%	4%
grade 6 events	7106	8694	6765	6926	8228
	2%	2%	2%	2%	2%
grade 7 events	229580	232358	266375	257649	257871
	82%	80%	84%	81%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	359.684418	359.6524672067569	Subarray requested	NONE	NONE
[deg] Pointing Dec	-60.608635	-60.63134816709623	Alternating exposures requested	N	N
[deg] Pointing Roll	205.020555	205.2013814952196	[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)	667656308.184000	667655314.25887			
Observation start date	2019-02-27T12:03:59	2019-02-27T11:48:34			
[s] Observation end time (MET)	667696308.184000	667697228.04887			
Observation end date	2019-02-27T23:10:39	2019-02-27T23:27:08			
Read mode	TIMED	TIMED			

2.3 Aspect



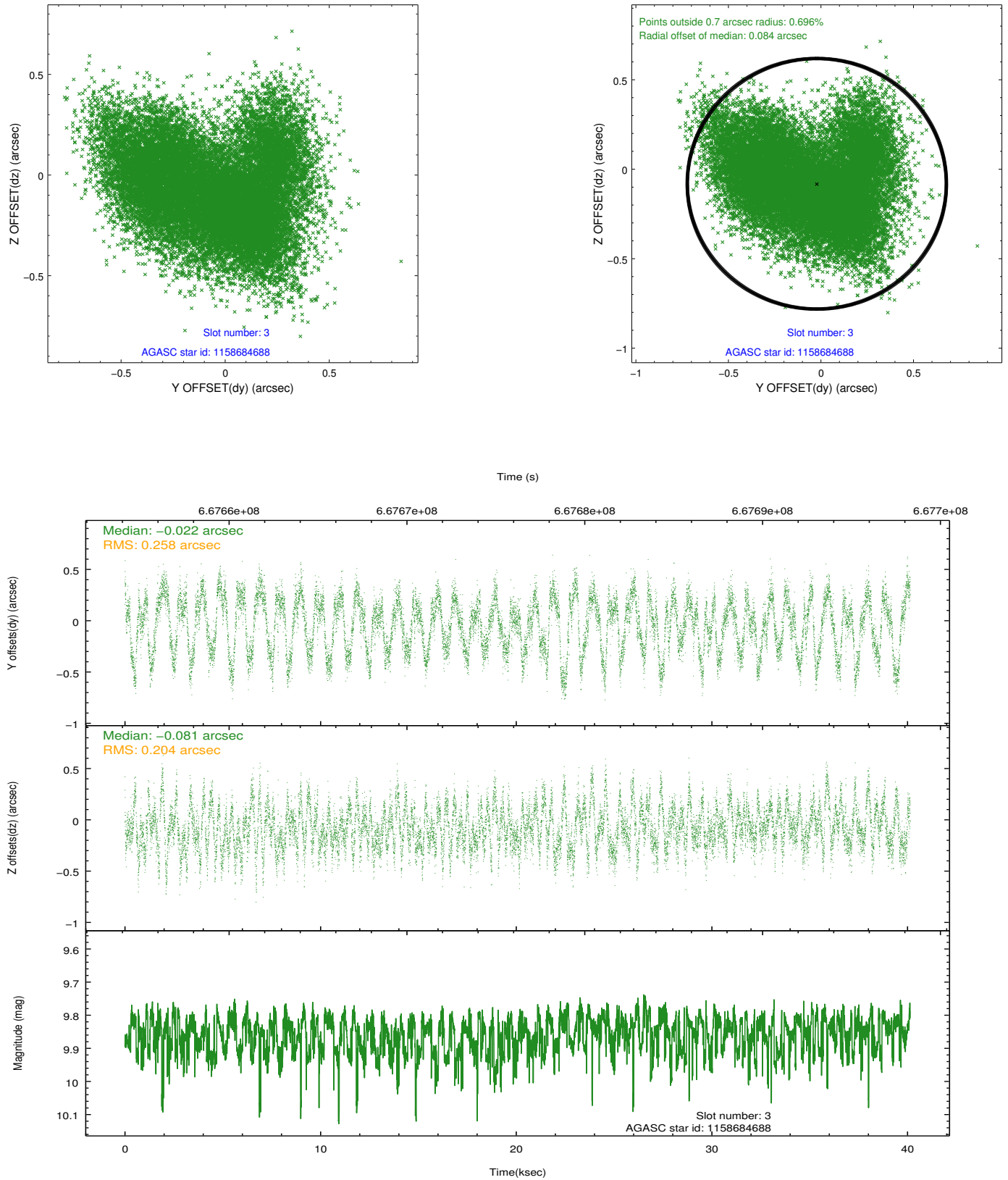


Slot Statistics

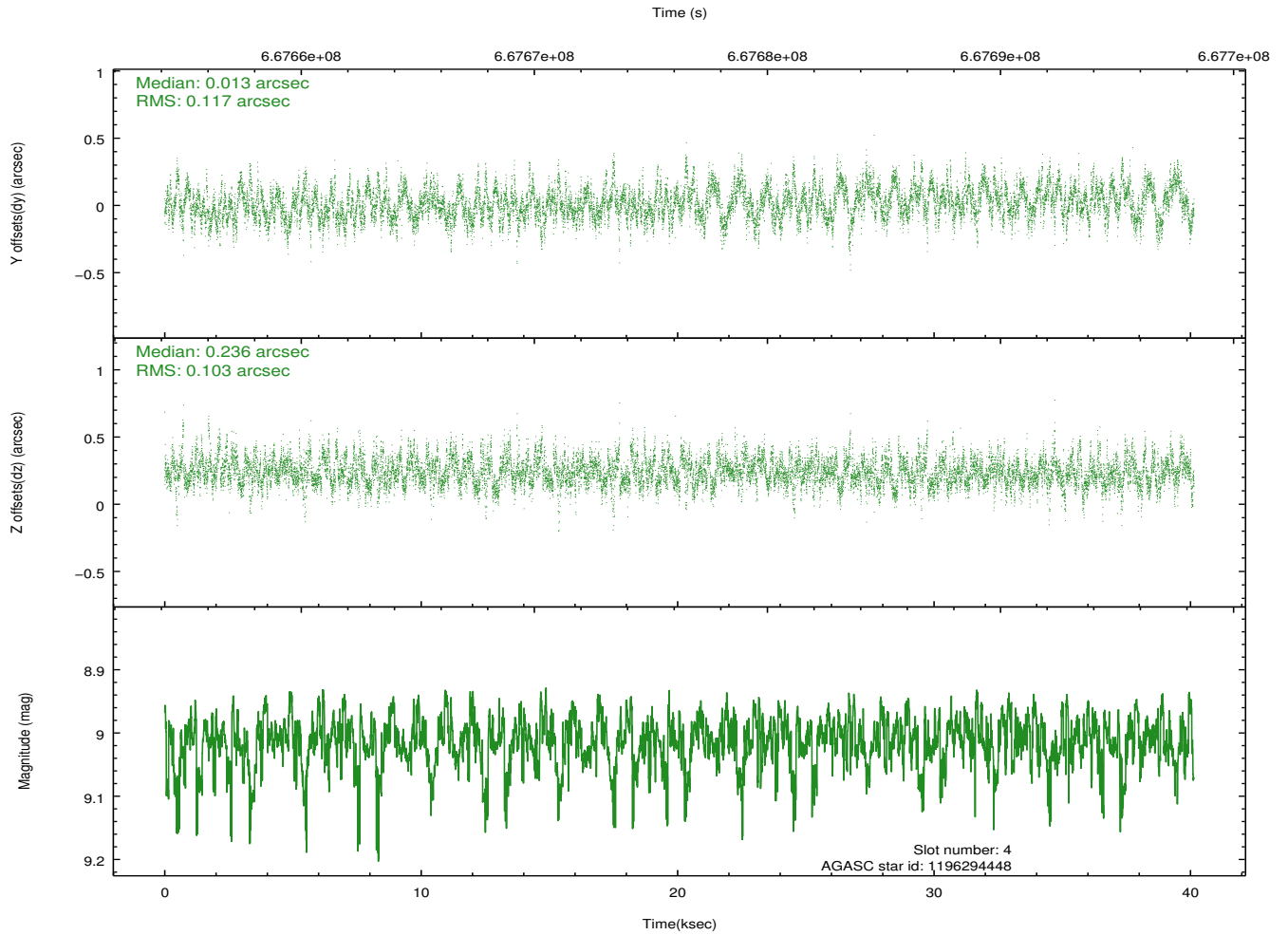
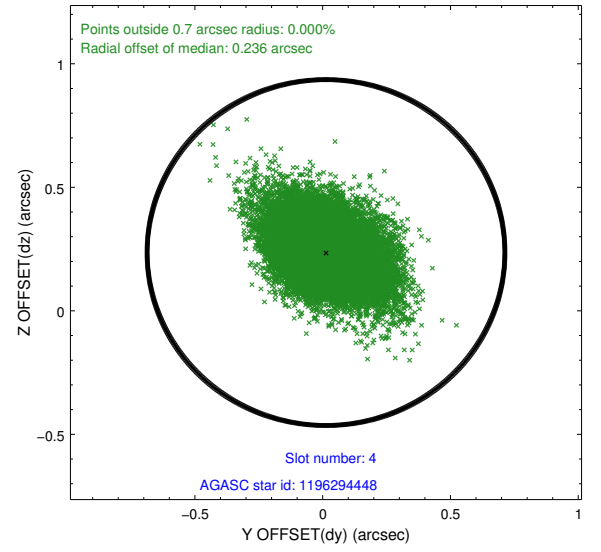
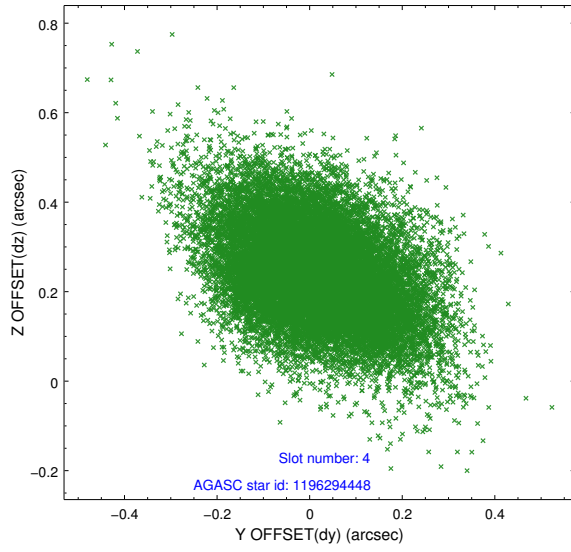
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.08	9789	1.000	0.179	-0.198	0.008	0.015	0.000000	0.000000	927.73	-843
1	FID		ACIS-I-3	7.31	9789	1.000	-0.079	0.191	0.013	0.027	0.000000	0.000000	45.01	-976
2	FID		ACIS-I-5	7.07	9790	1.000	-0.191	0.079	0.015	0.035	0.000000	0.000000	-1821.13	1053
3	GUIDE	used	1158684688	9.85	19535	1.000	-0.022	-0.081	0.359	0.552	1.119998	-60.745878	-2067.79	1541
4	GUIDE	used	1196294448	9.01	19564	1.000	0.013	0.236	0.162	0.273	358.652774	-60.349341	1274.16	-1607
5	GUIDE	used	1196296176	9.86	19283	1.000	0.342	0.437	0.317	0.520	359.593480	-60.213862	-453.33	-1355
6	GUIDE	used	1196299096	9.73	19447	1.000	0.079	-0.331	0.361	0.513	358.667410	-60.859442	2002.07	78
7	GUIDE	used	1196299136	8.56	19565	1.000	-0.354	-0.224	0.116	0.200	358.918581	-60.979672	1779.96	652

2.4 Star Slots

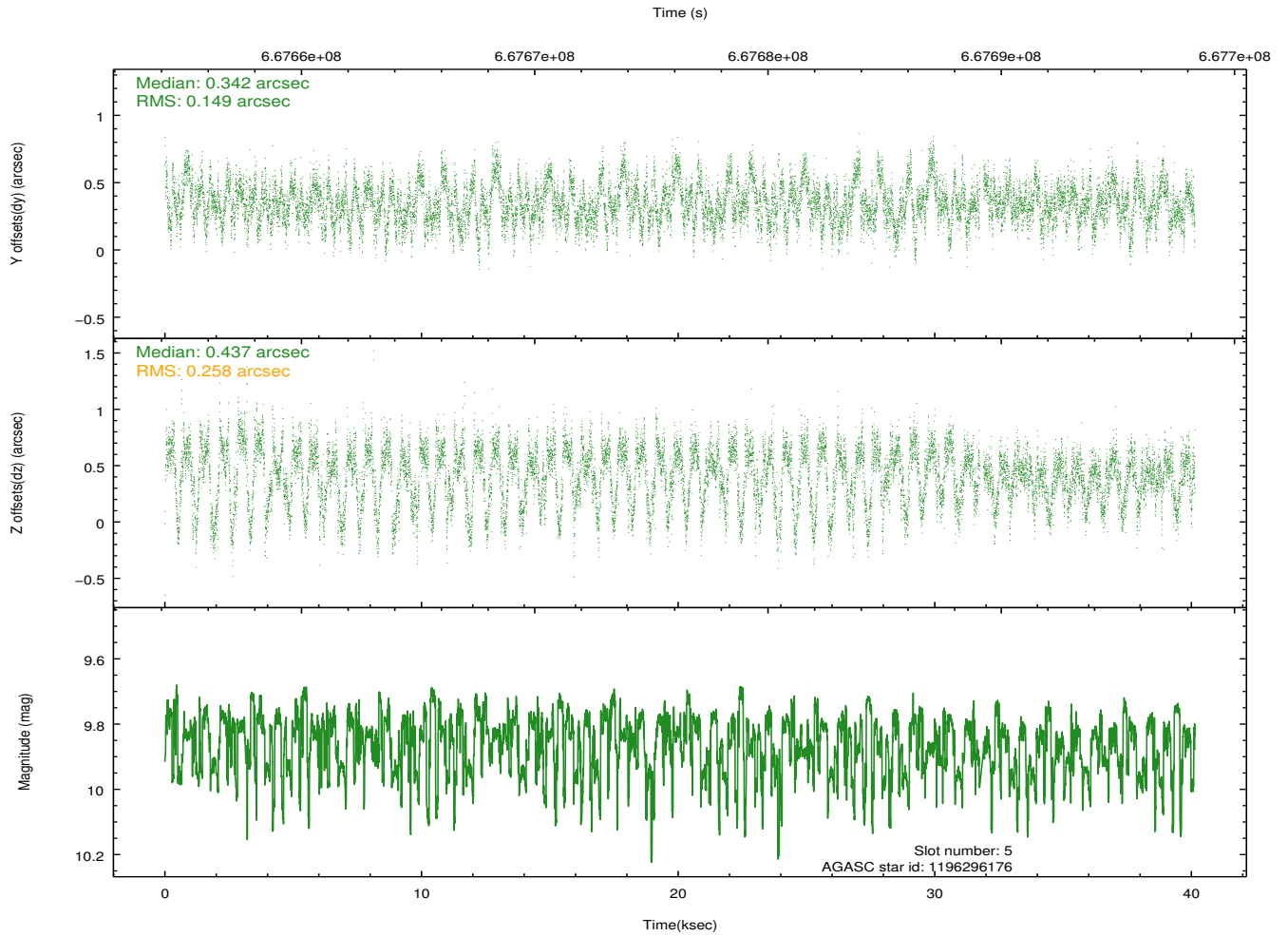
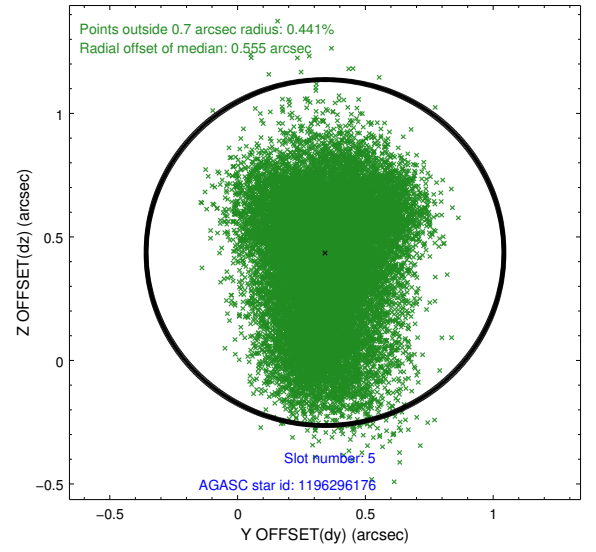
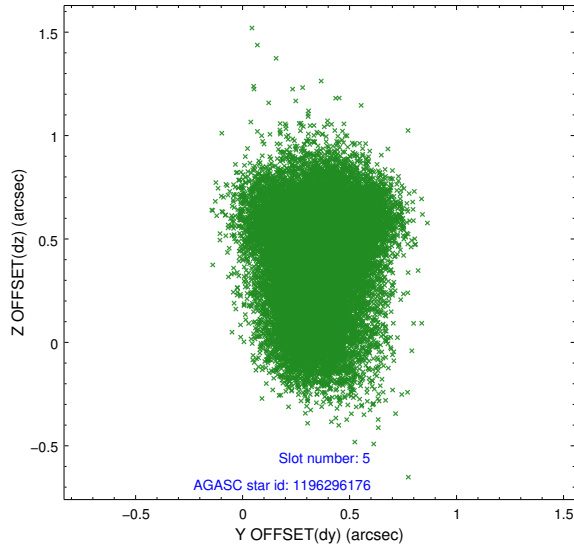
2.4.1 Slot 3



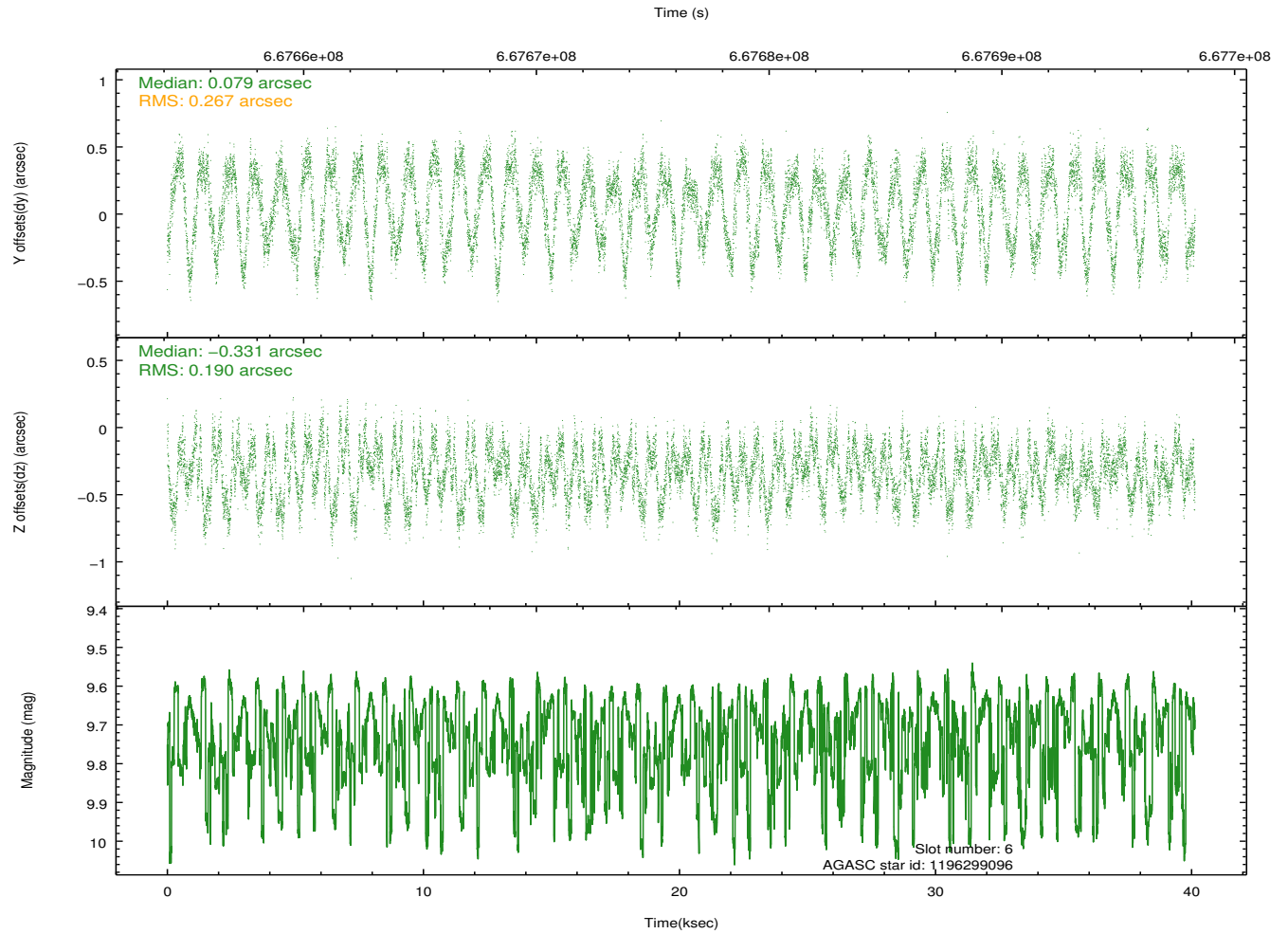
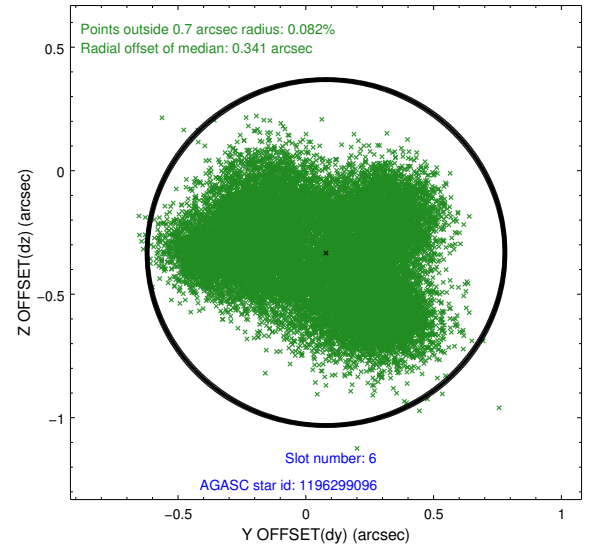
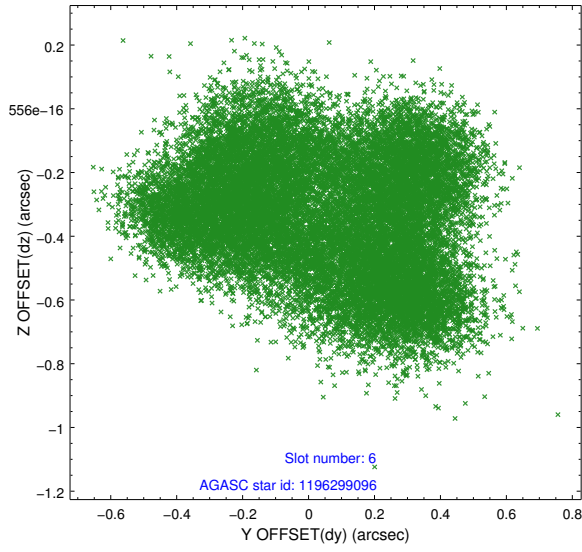
2.4.2 Slot 4



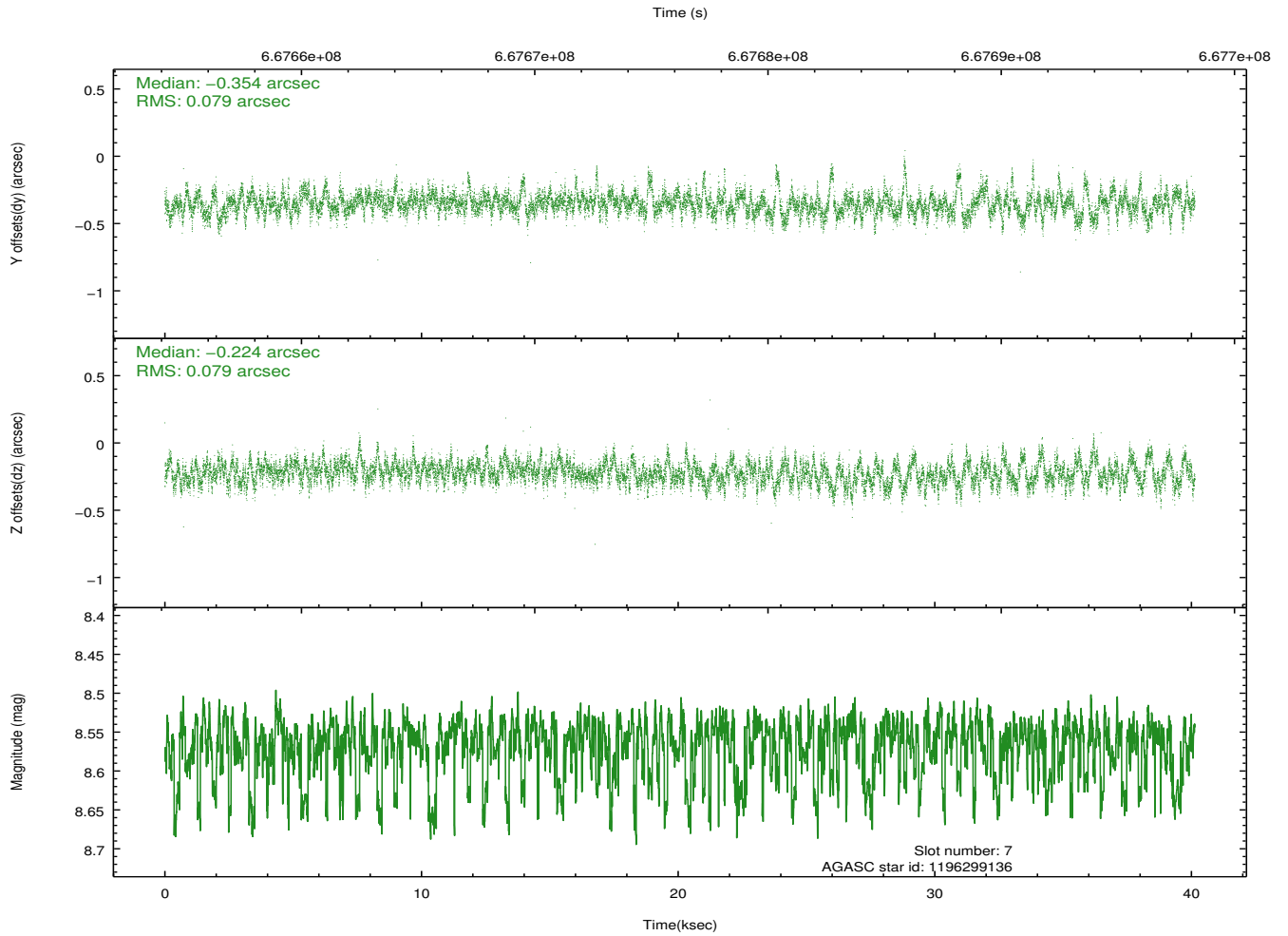
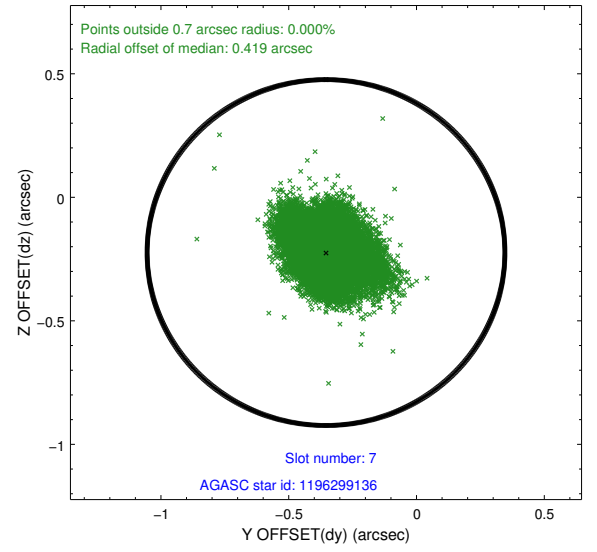
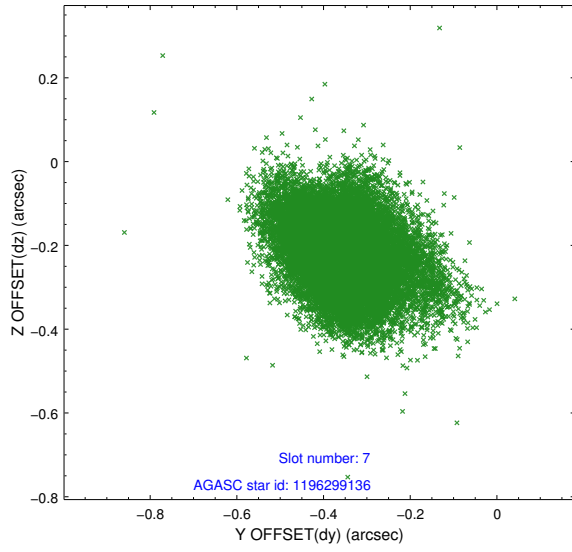
2.4.3 Slot 5



2.4.4 Slot 6

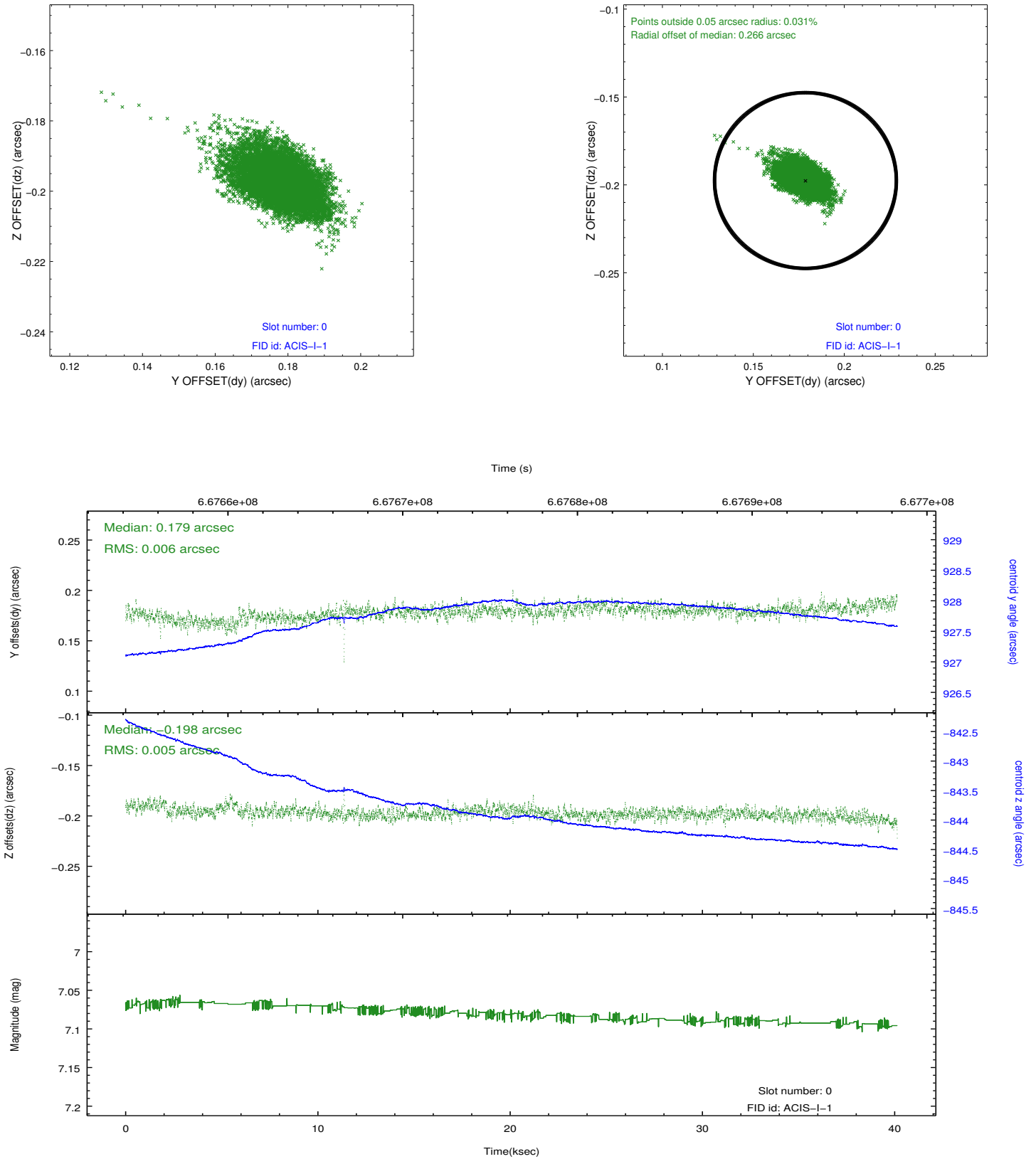


2.4.5 Slot 7

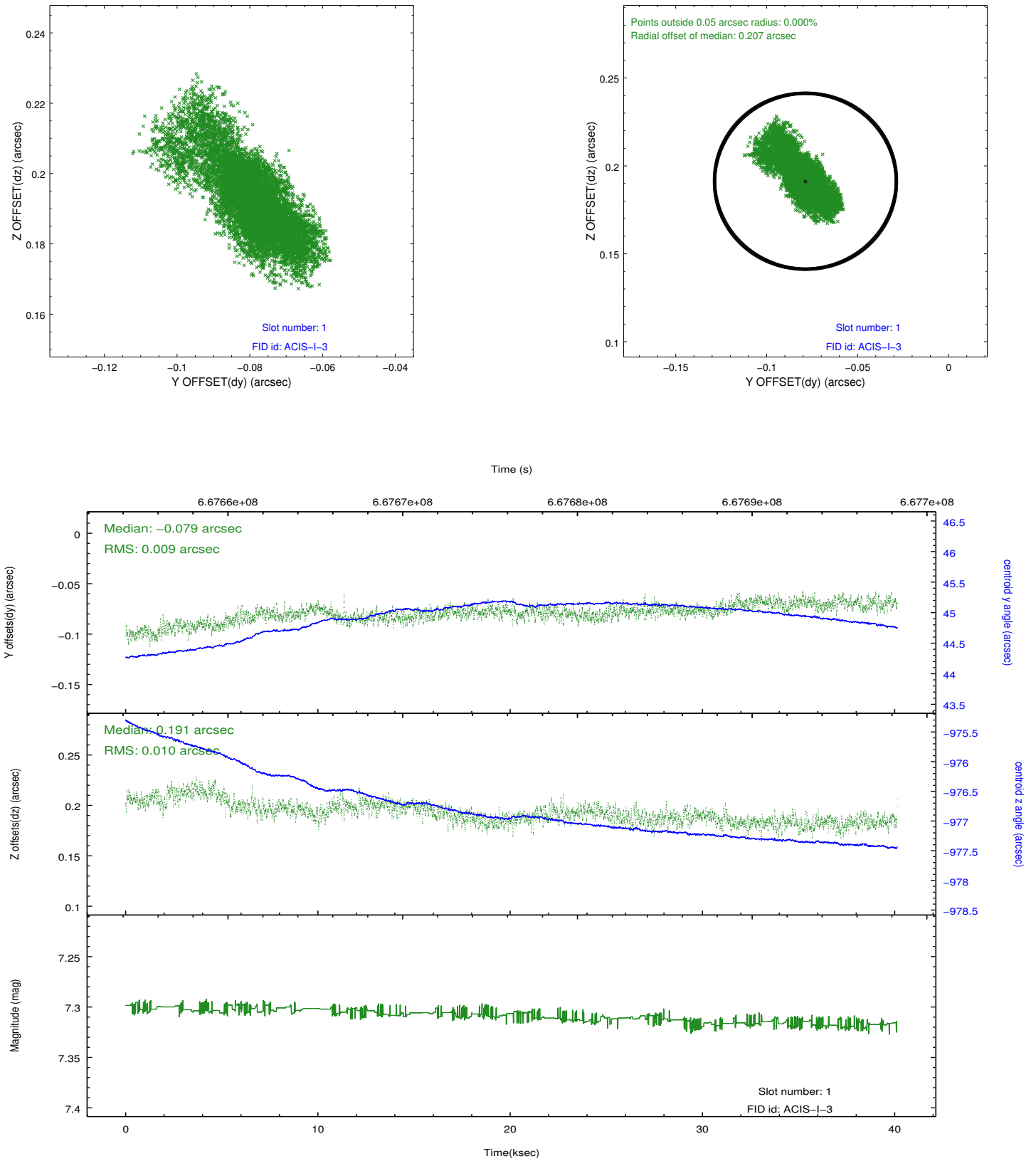


2.5 FID Slots

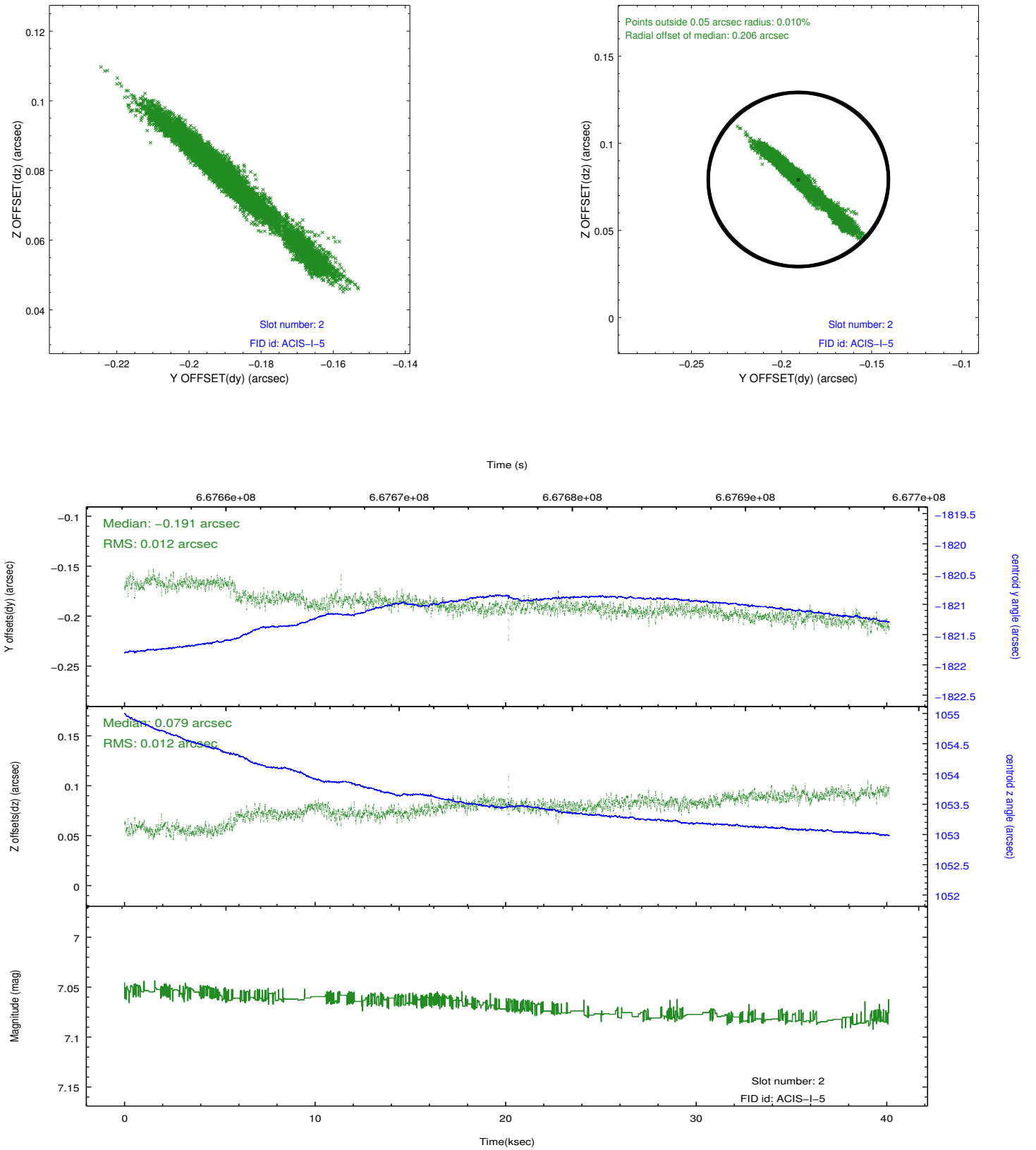
2.5.1 Slot 0



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)	2019.03.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.069436093211

A.2 Comments