

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19345 - L2 Version 1
Chandra X-Ray Center

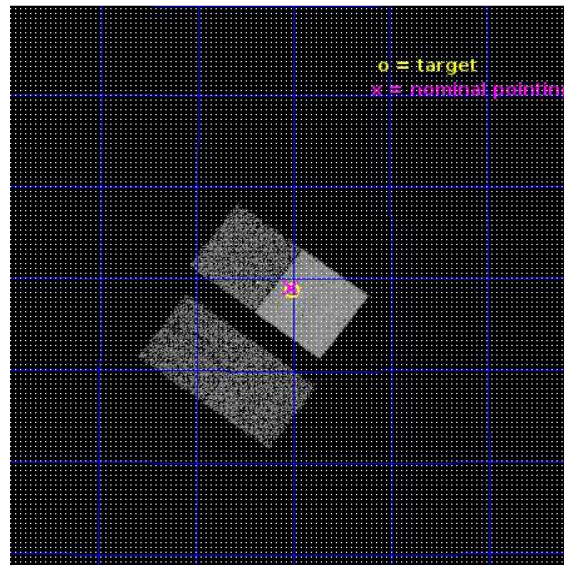
L2 Processing Date : Nov 1 2017

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1 Front

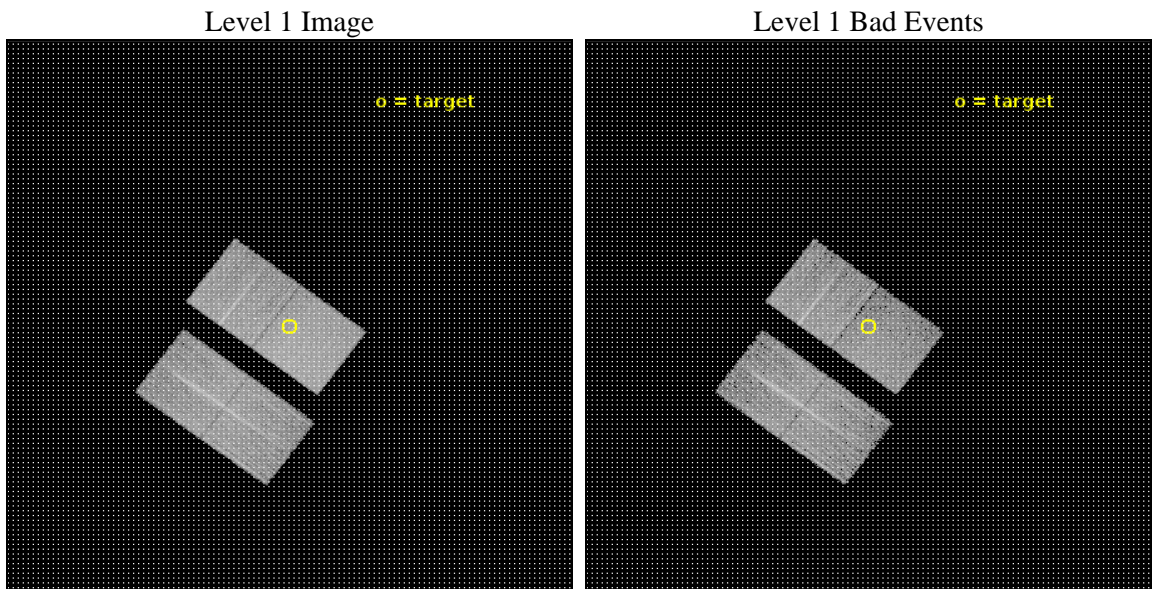
seq_num	601302	Sequence number
obs_id	19345	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 4096	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.505	Observer's specified target RA [deg]
dec_targ	47.478361	Observer's specified target Dec [deg]
ra_nom	181.50602070098	Nominal RA [deg]
dec_nom	47.484334307462	Nominal Dec [deg]
roll_nom	36.463210731902	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8068.7664788961	Sum of GTIs [s]
livetime	7963.3421047099	Livetime [s]
ontime2	8068.6433589458	Sum of GTIs [s]
ontime3	8065.5433684587	Sum of GTIs [s]
ontime6	8068.7254389524	Sum of GTIs [s]
ontime7	8068.7664788961	Sum of GTIs [s]
l2events	46768	Number of level 2 events



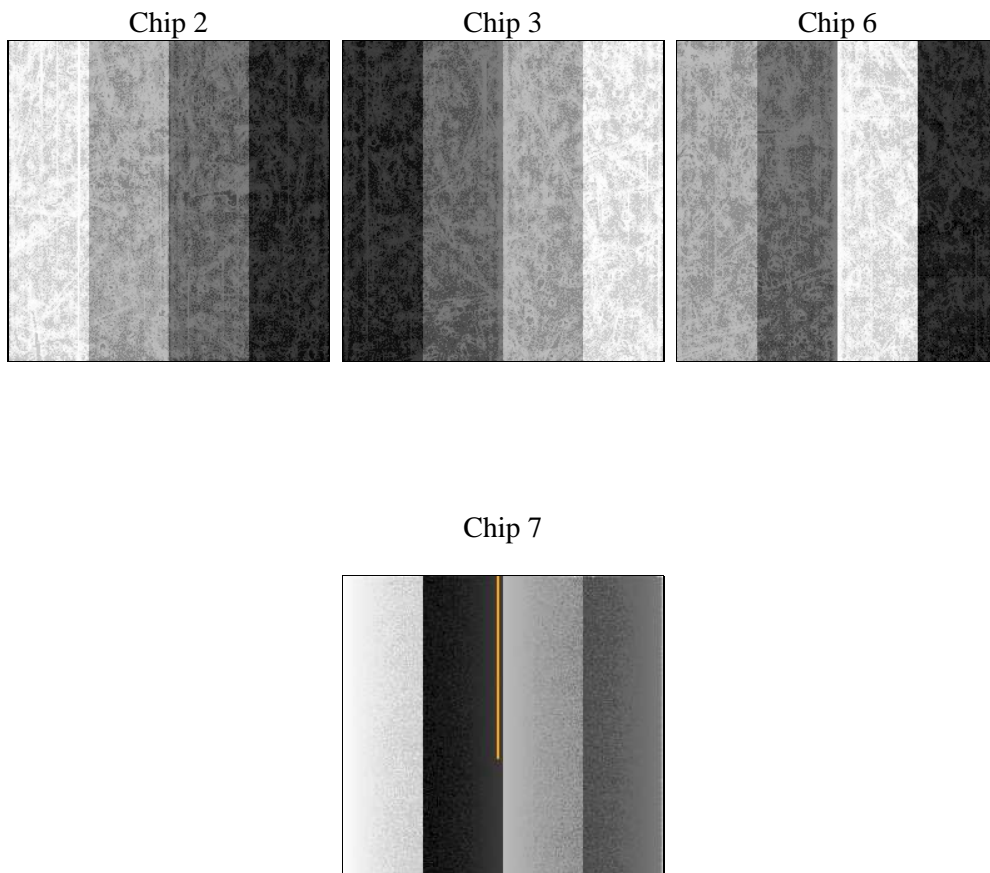
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	8068.7664788961	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	8068.6433589458	Sum of GTIs [s]
date	2017-11-01T18:59:19	Date and time of file creation	ontime3	8065.5433684587	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8068.7254389524	Sum of GTIs [s]
			ontime7	8068.7664788961	Sum of GTIs [s]
			l1events	246652	Number of level 1 events

2.1.4 Events

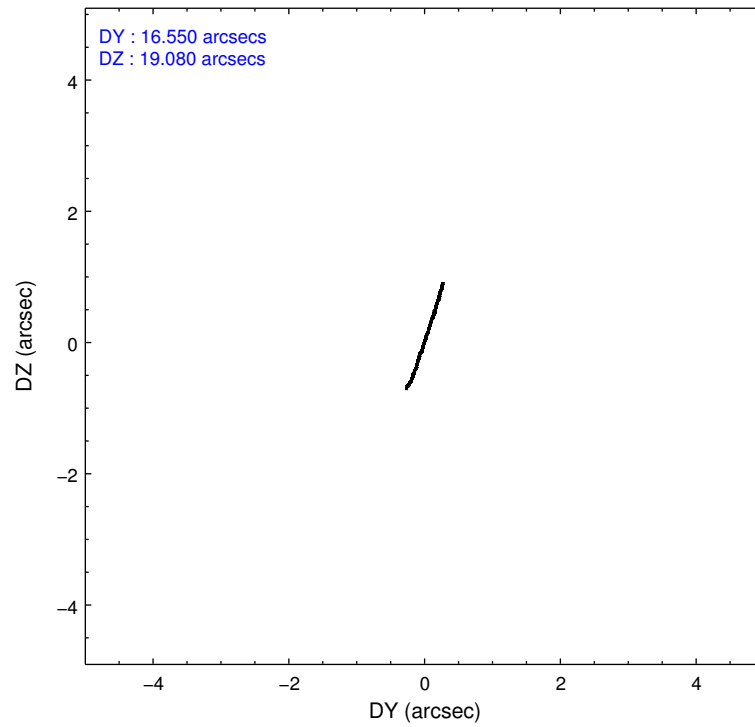
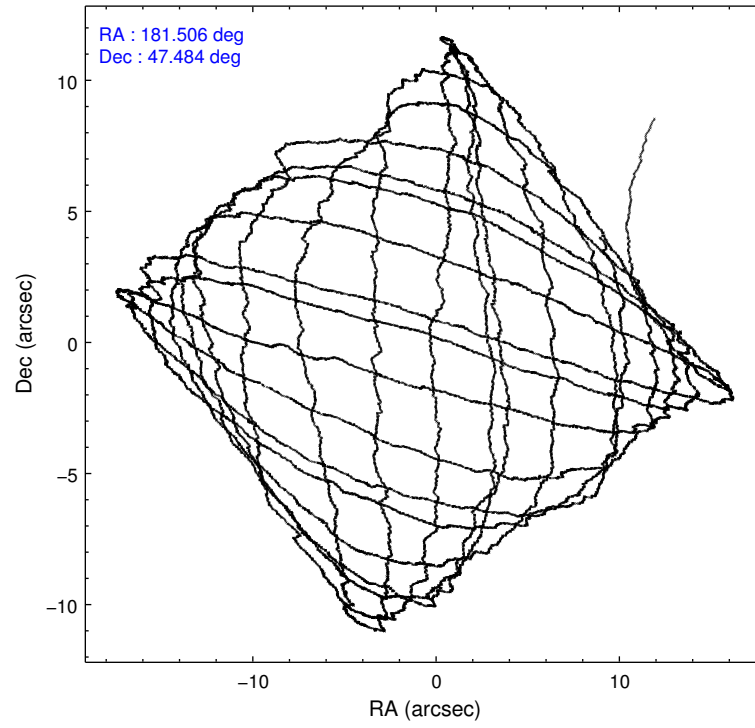
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	56964	56604	59593	73491
rejected events	51190	50889	52582	42025
rejected %	89%	89%	88%	57%

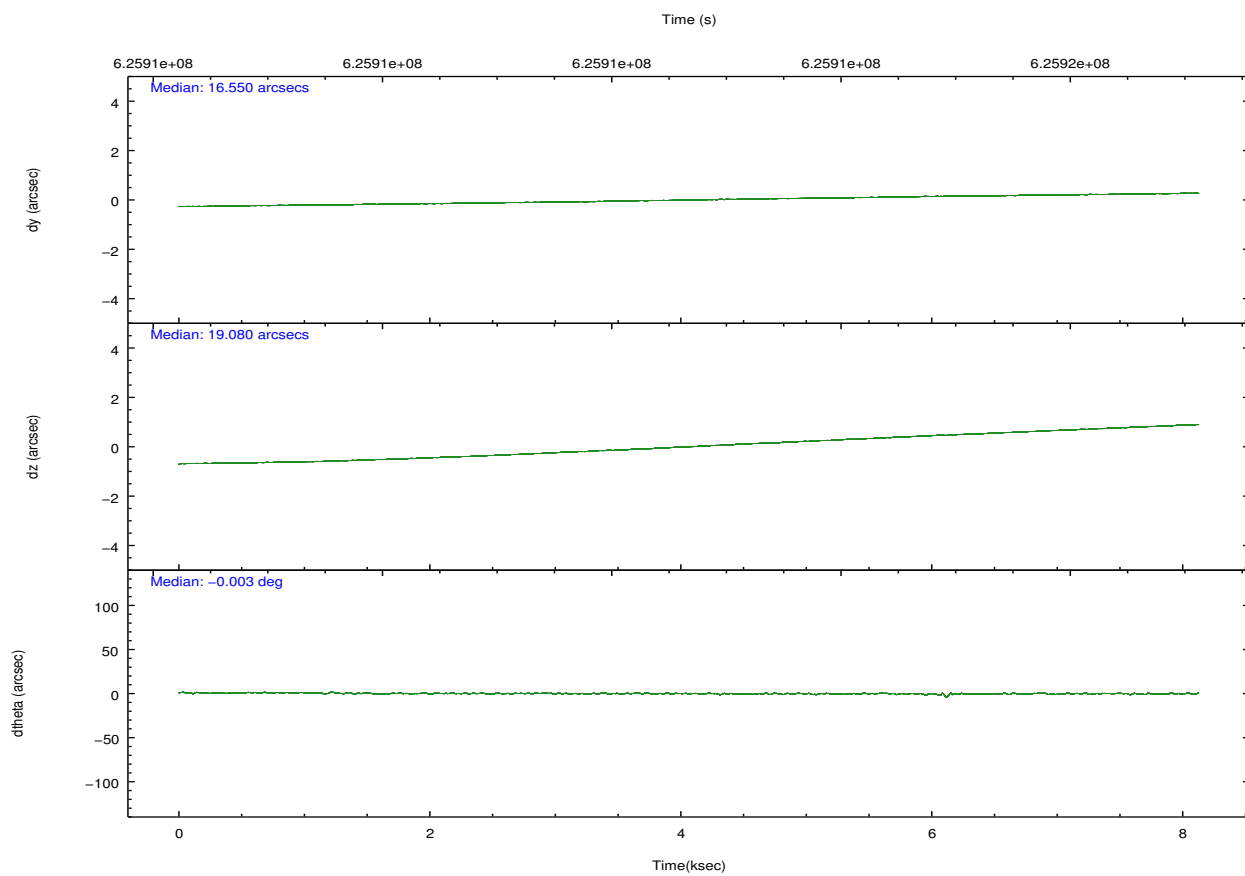
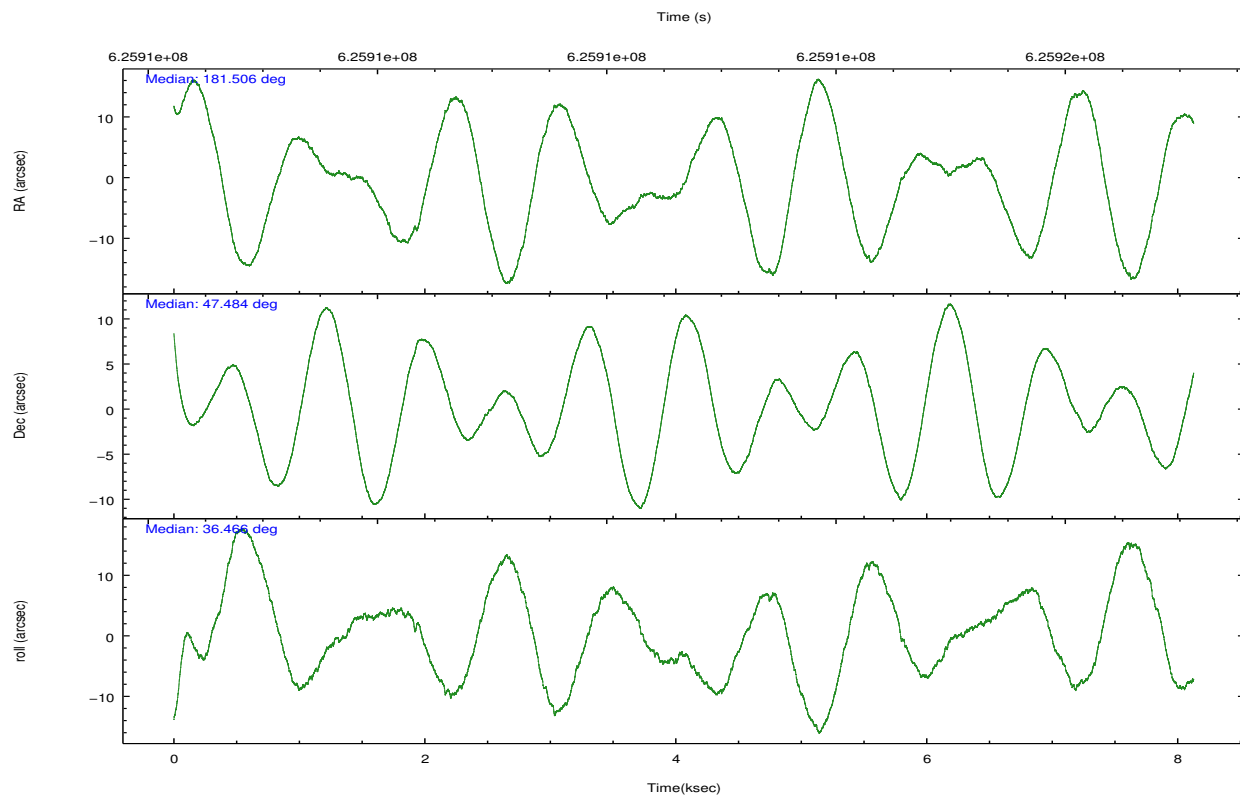
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2013	1963	2352	2579
	3%	3%	3%	3%
grade 1 events	27	13	34	103
	0%	0%	0%	0%
grade 2 events	1341	1240	1720	6506
	2%	2%	2%	8%
grade 3 events	662	654	616	2527
	1%	1%	1%	3%
grade 4 events	612	646	610	2386
	1%	1%	1%	3%
grade 5 events	2174	2705	2508	7007
	3%	4%	4%	9%
grade 6 events	1148	1214	1716	17488
	2%	2%	2%	23%
grade 7 events	48987	48169	50037	34895
	85%	85%	83%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	181.490214	181.5060207009751	Subarray requested	NONE	NONE
[deg] Pointing Dec	47.459052	47.48433430746206	Alternating exposures requested	N	N
[deg] Pointing Roll	36.318256	36.46321073190213	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	625908735.184000	625907671.06911			
Observation start date	2017-11-01T07:31:06	2017-11-01T07:14:31			
[s] Observation end time (MET)	625916735.184000	625917621.2572			
Observation end date	2017-11-01T09:44:26	2017-11-01T10:00:21			
Read mode	TIMED	TIMED			

2.3 Aspect



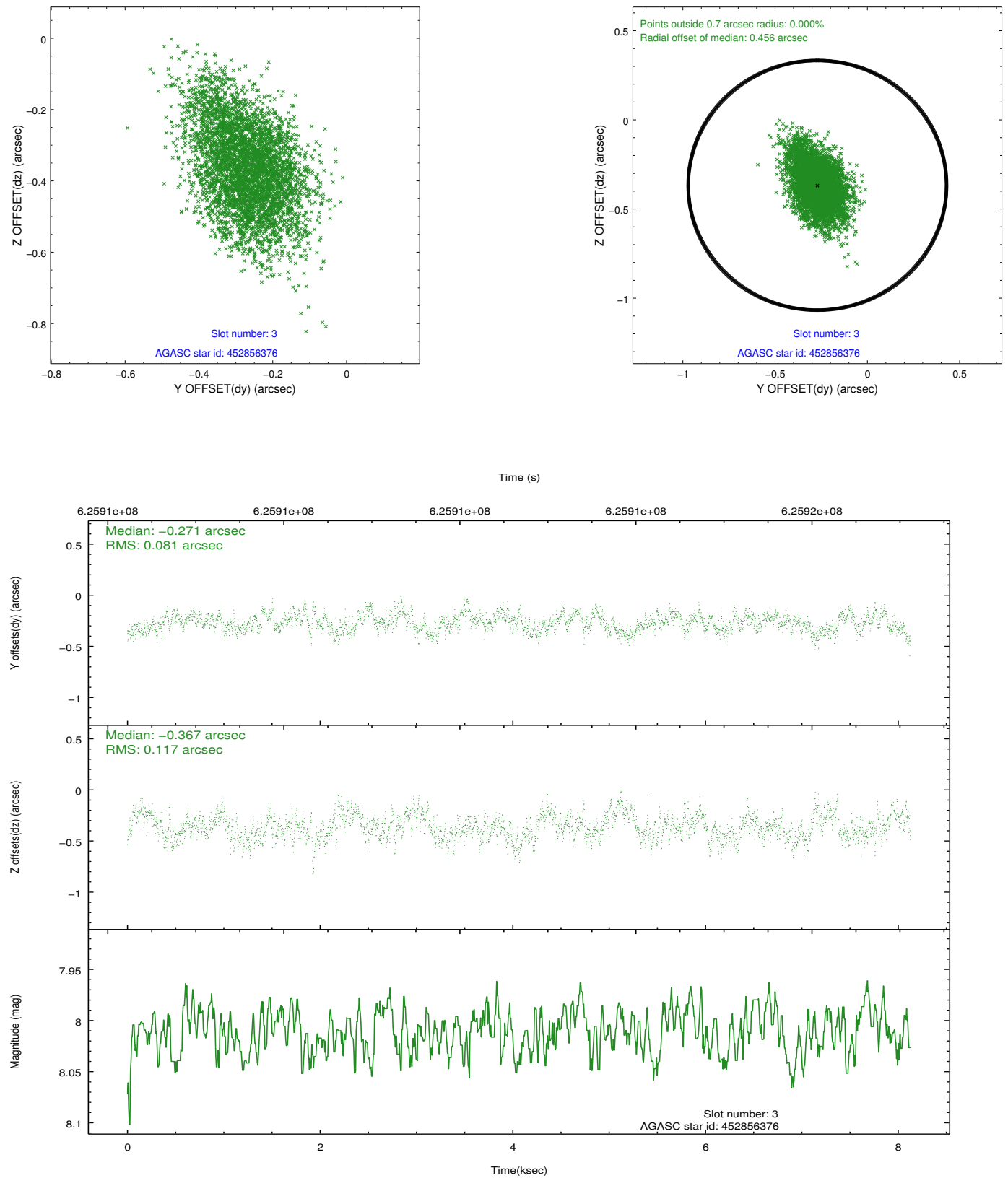


Slot Statistics

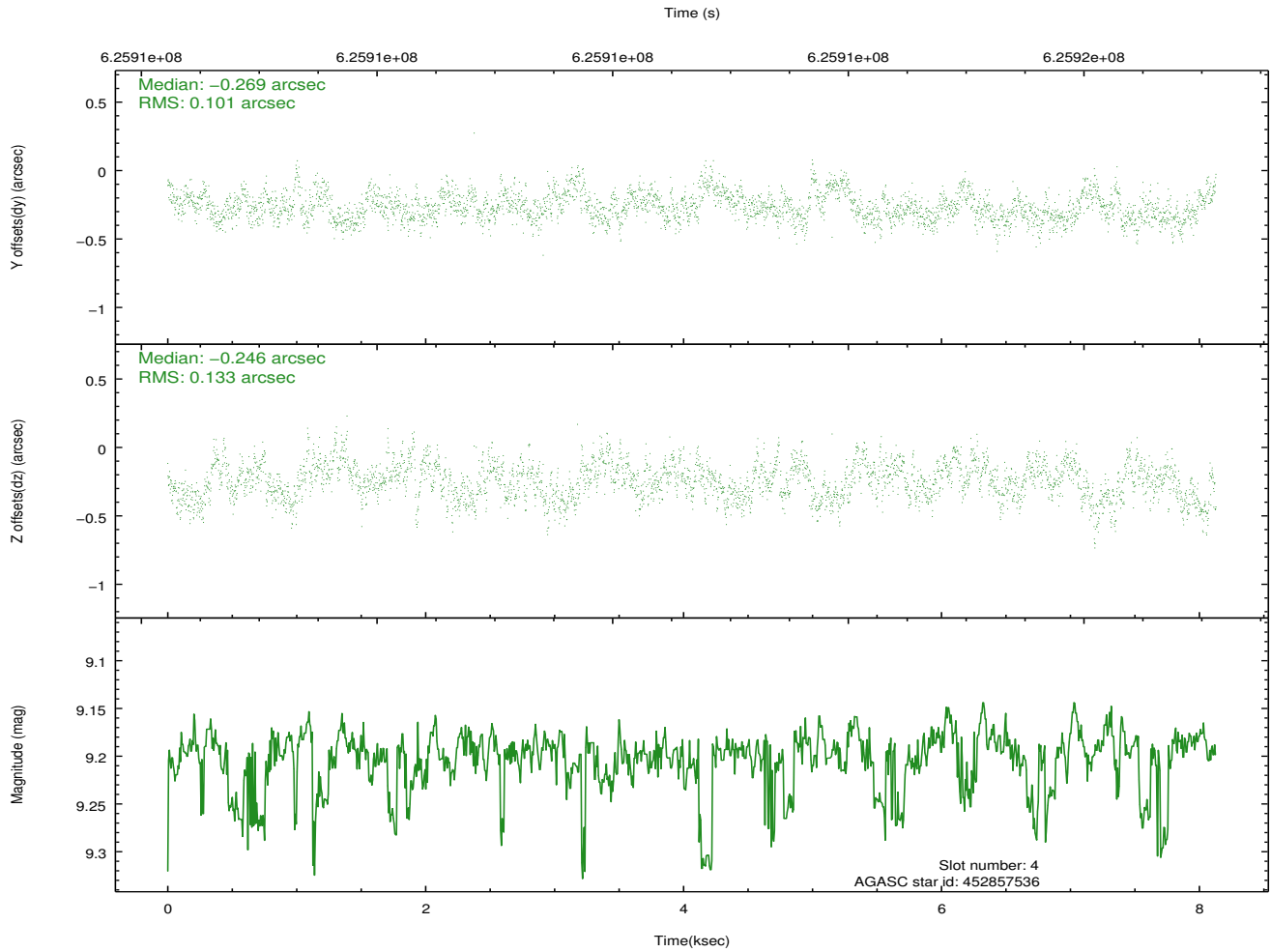
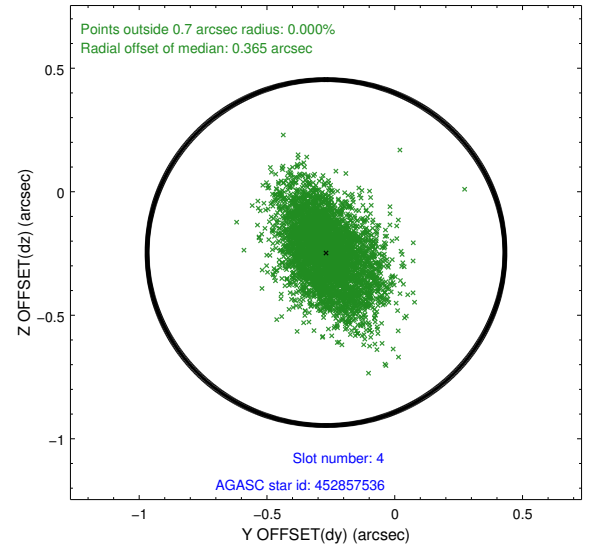
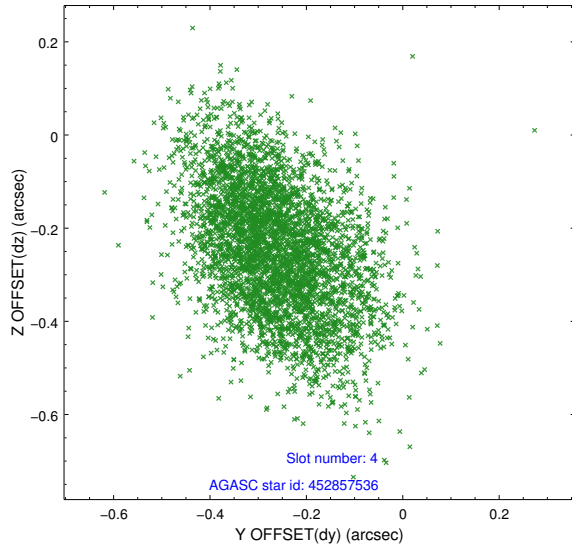
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1983	-0.281	-0.171	0.007	0.012	0.000000	0.000000	-769.87	-1740.70
1	FID		ACIS-S-4	7.23	1983	0.330	0.163	0.008	0.013	0.000000	0.000000	2143.73	167.35
2	FID		ACIS-S-6	7.38	1983	-0.077	0.016	0.009	0.017	0.000000	0.000000	393.24	805.41
3	GUIDE	used	452856376	8.01	3966	-0.271	-0.367	0.148	0.249	181.732101	47.874752	1357.31	860.50
4	GUIDE	used	452857536	9.20	3954	-0.269	-0.246	0.178	0.294	182.053981	47.925534	2093.31	551.85
5	GUIDE	used	452858288	7.92	3964	-0.302	0.466	0.127	0.221	181.783501	47.298269	235.37	-888.40
6	GUIDE	used	452860016	8.59	3962	0.457	0.300	0.125	0.220	181.748151	47.142368	-164.73	-1291.69
7	GUIDE	used	452860280	8.35	3964	0.375	-0.157	0.120	0.210	180.799388	47.171416	-1970.46	173.04

2.4 Star Slots

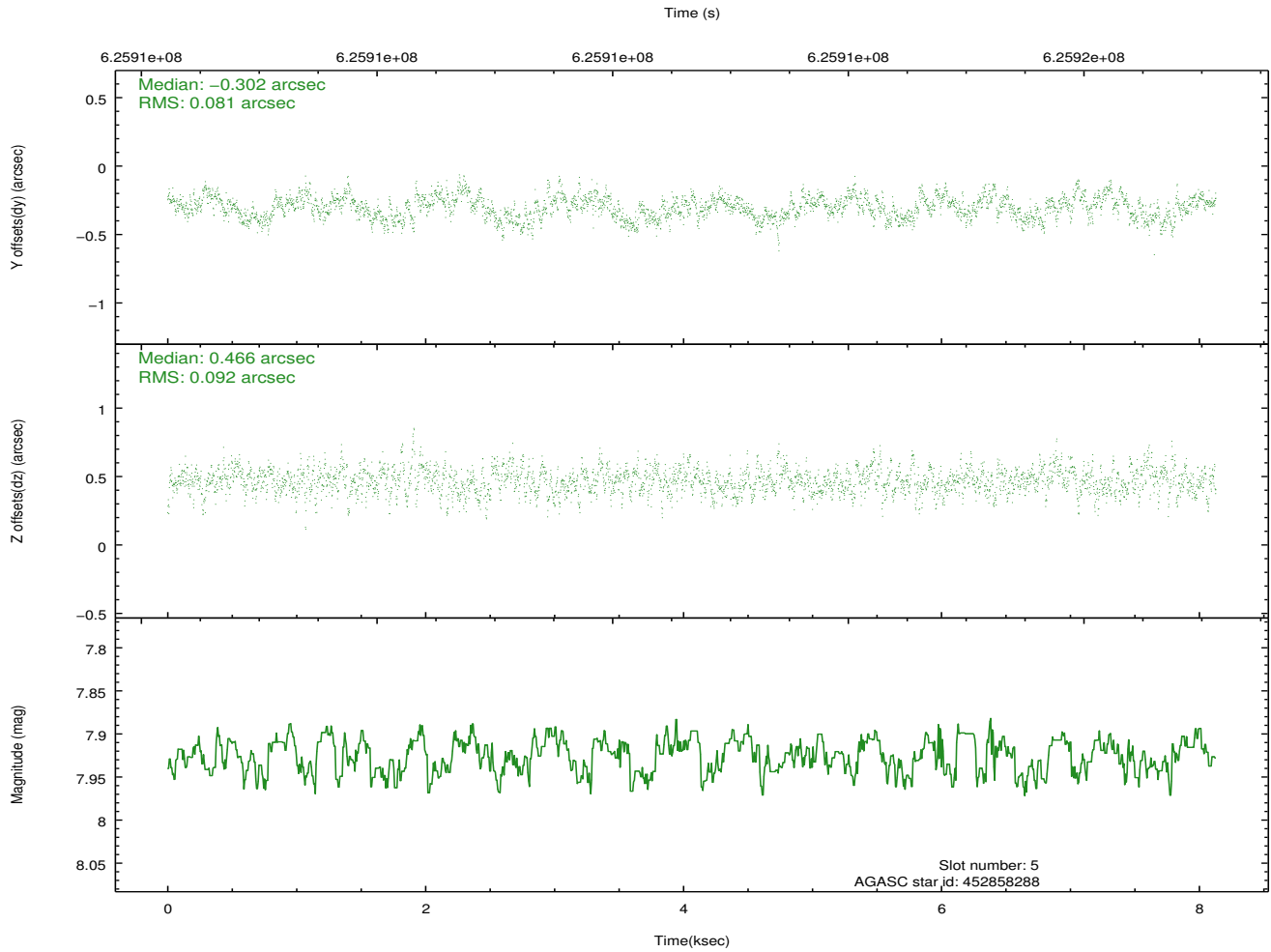
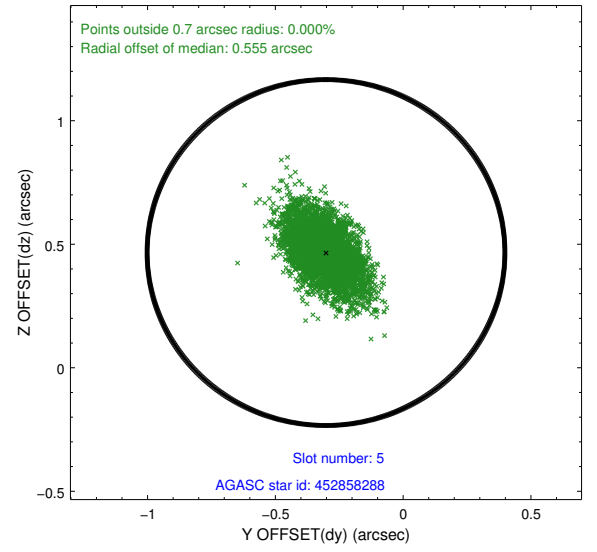
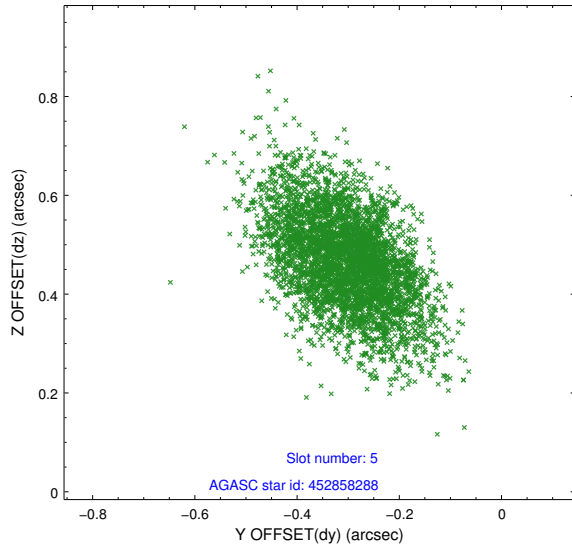
2.4.1 Slot 3



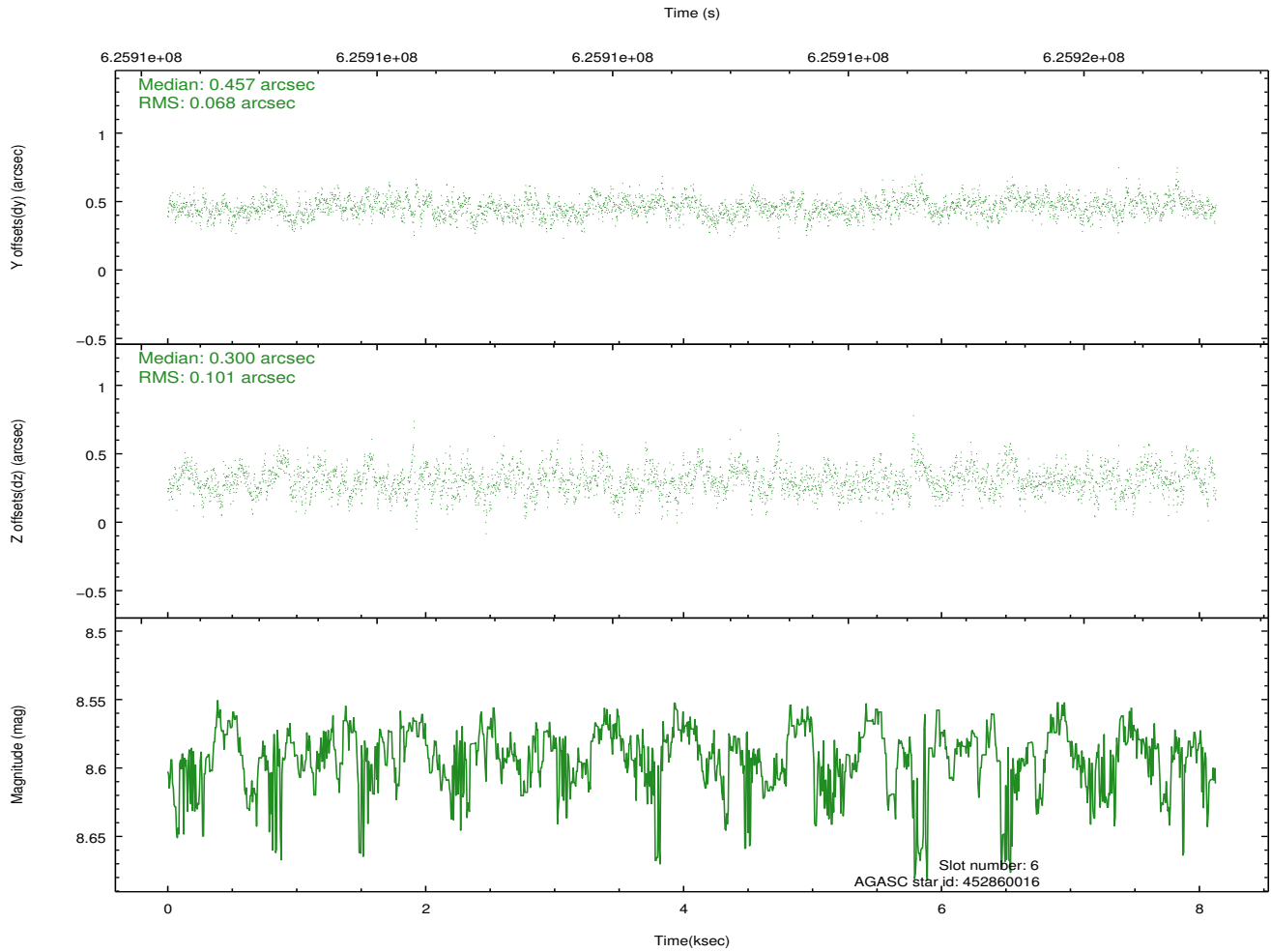
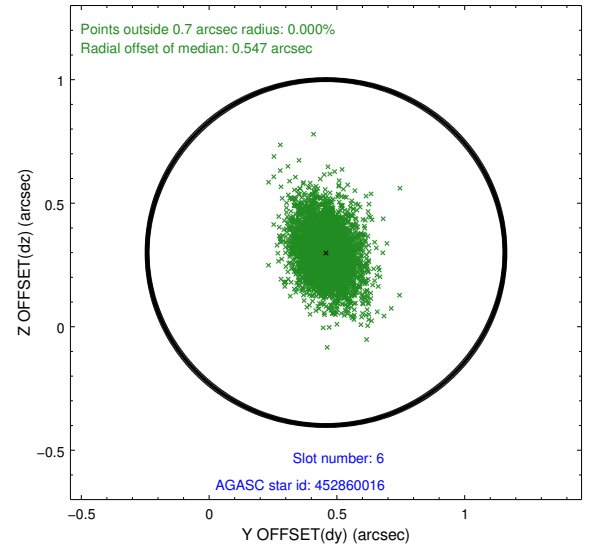
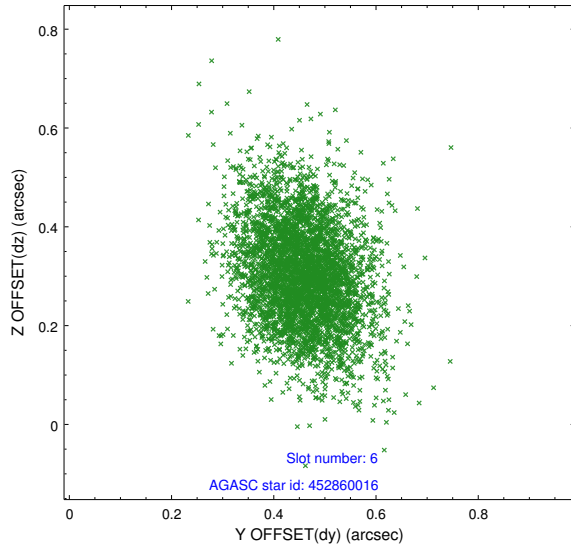
2.4.2 Slot 4



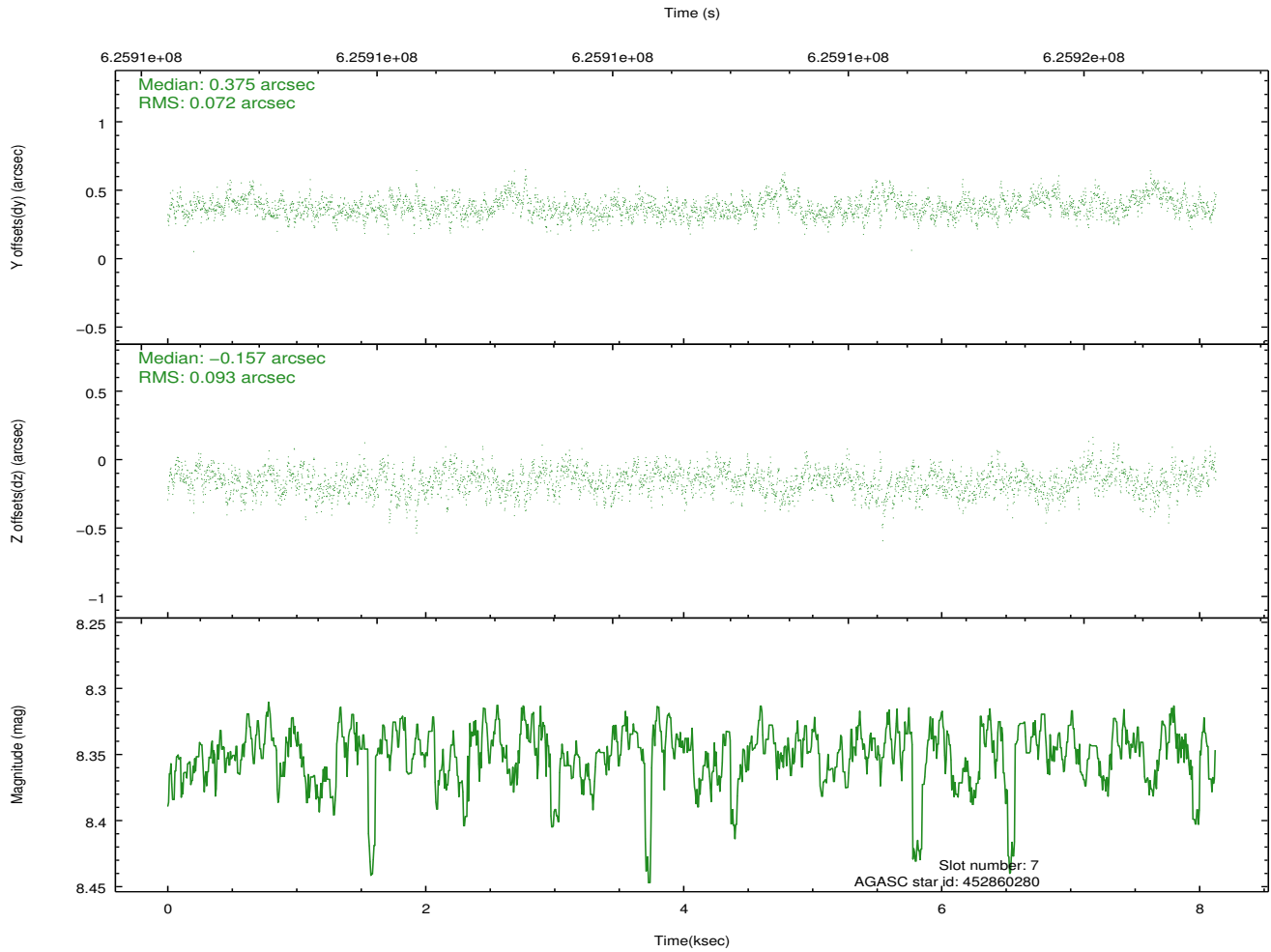
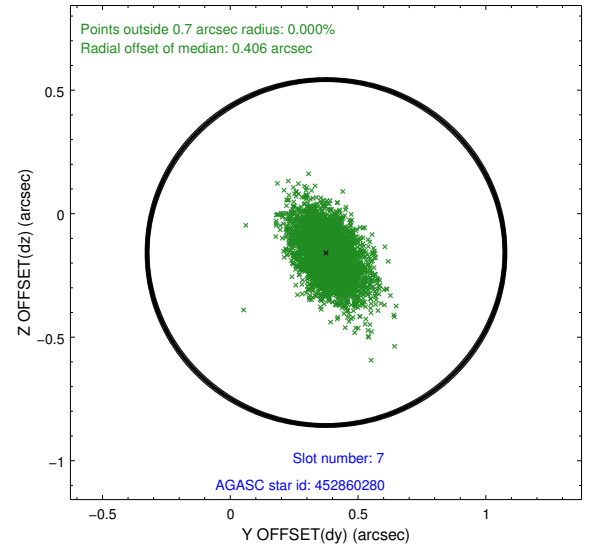
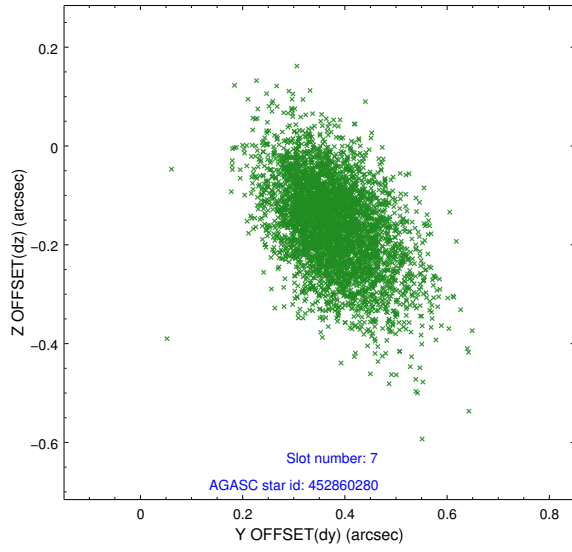
2.4.3 Slot 5



2.4.4 Slot 6

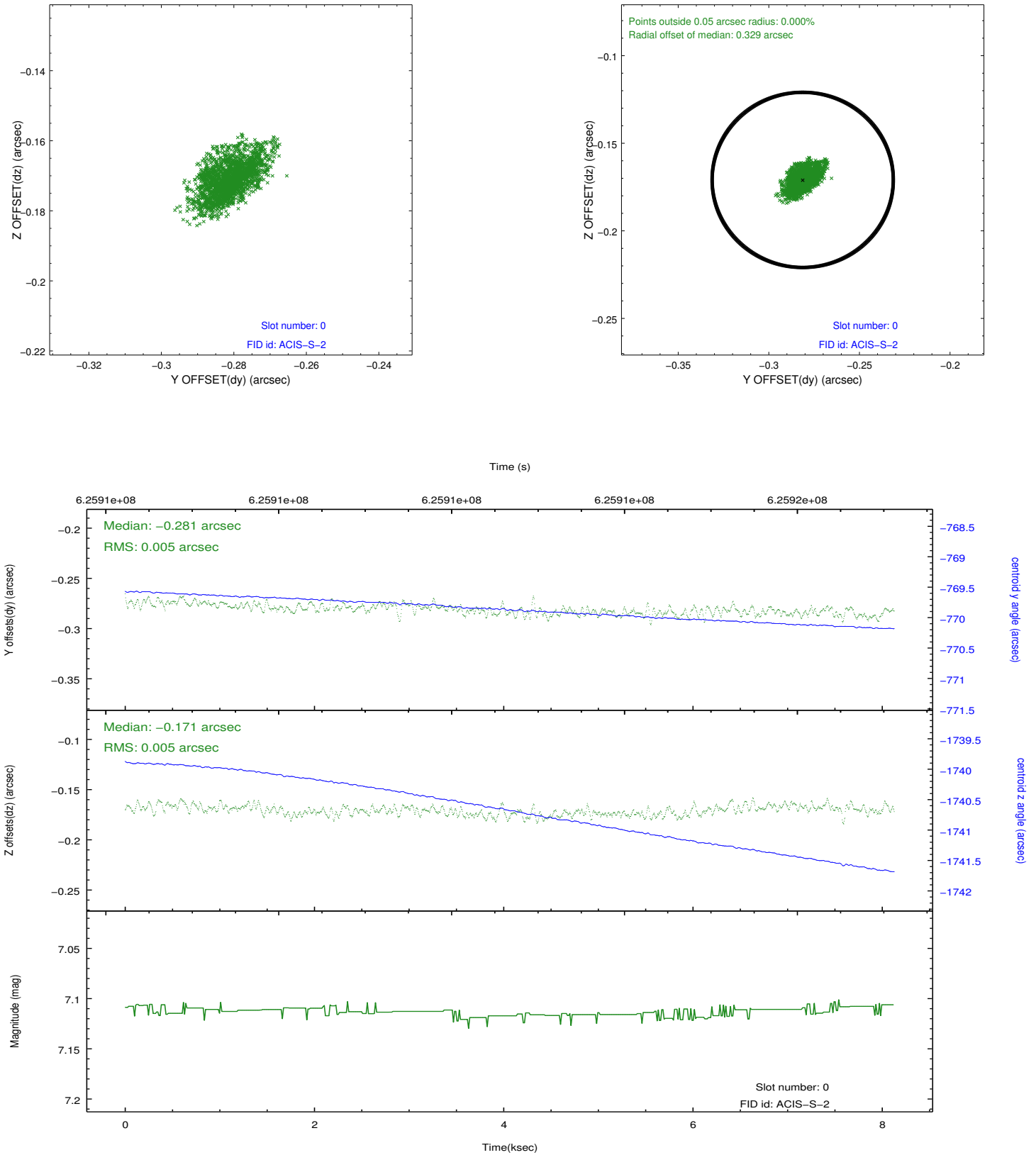


2.4.5 Slot 7

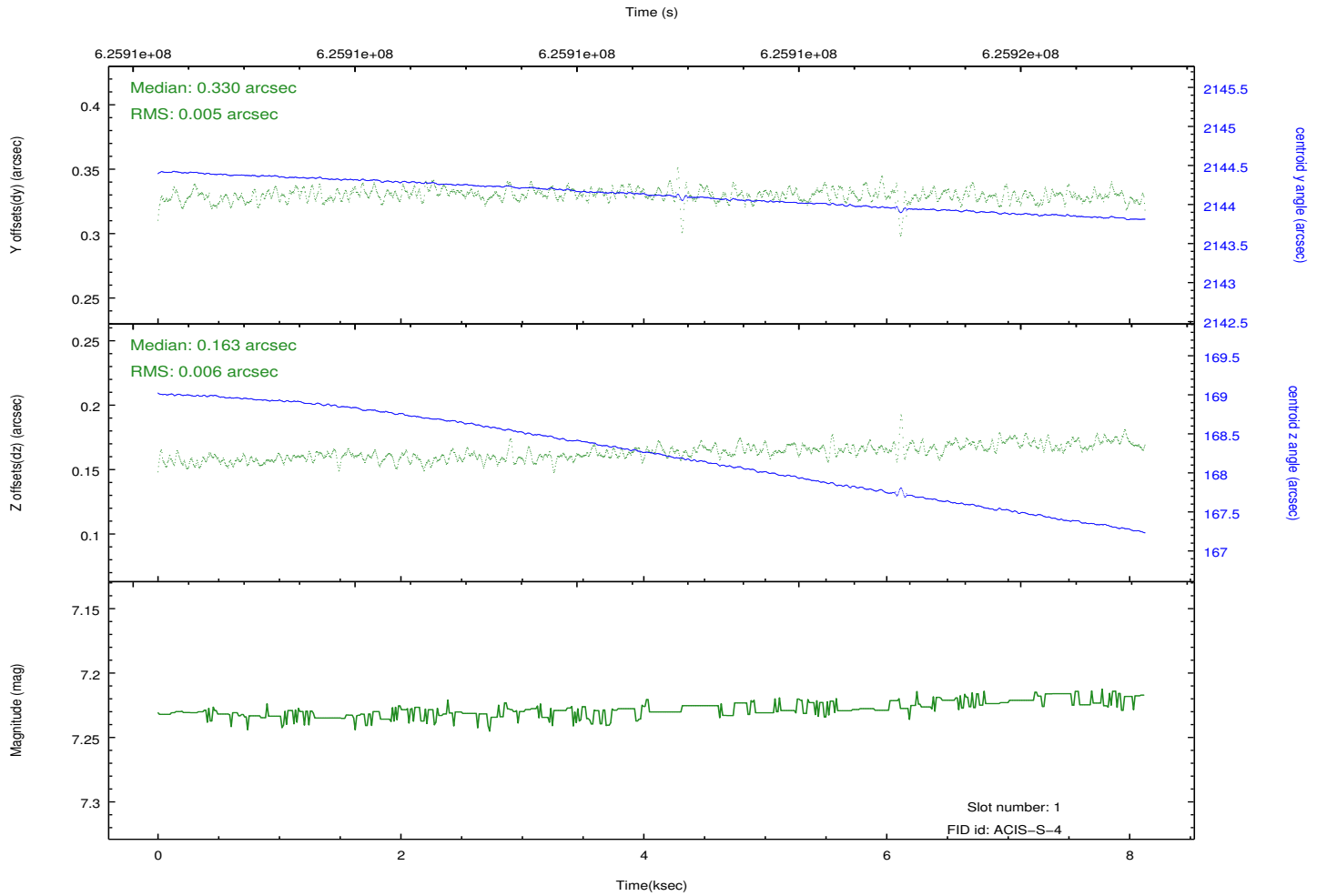
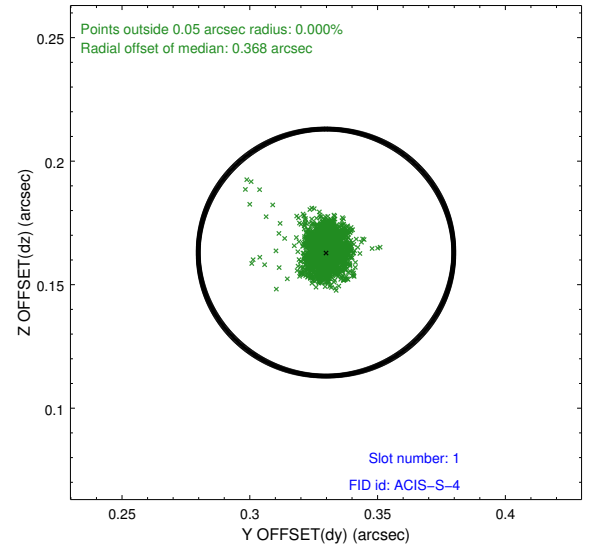
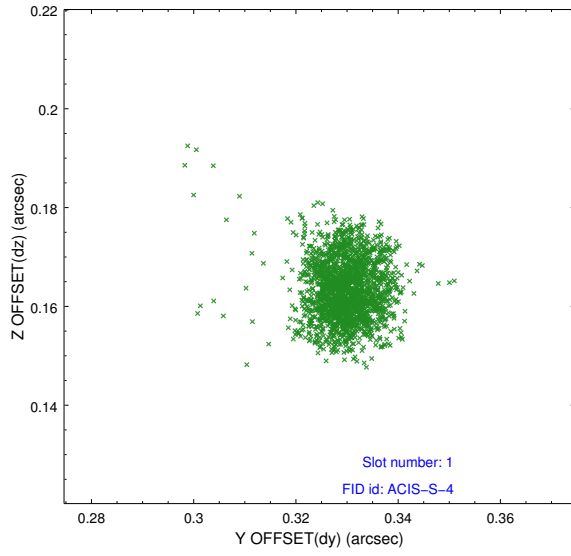


2.5 FID Slots

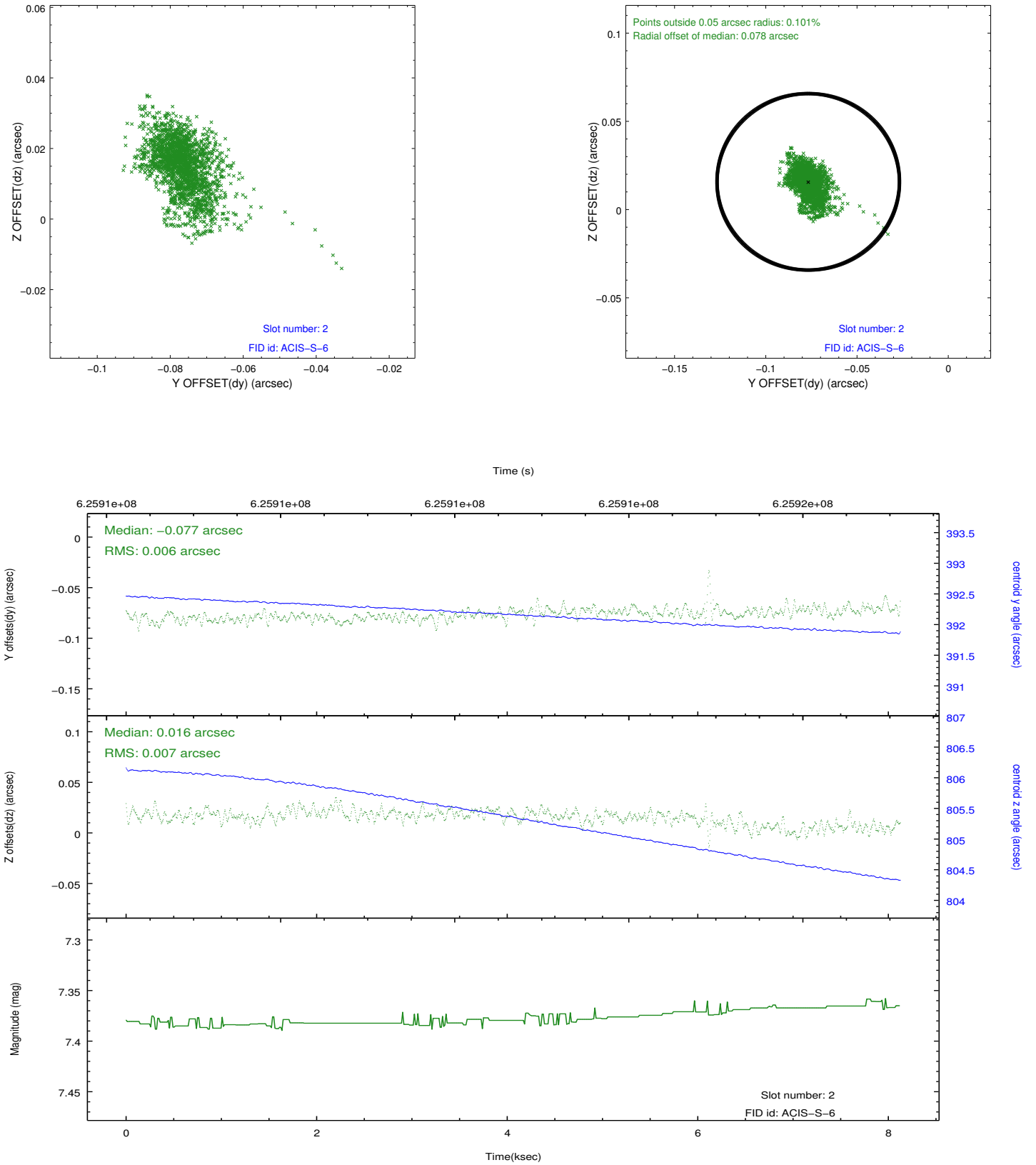
2.5.1 Slot 0



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)	2017.11.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0687664788961

A.2 Comments