

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22170 - L2 Version 1
Chandra X-Ray Center

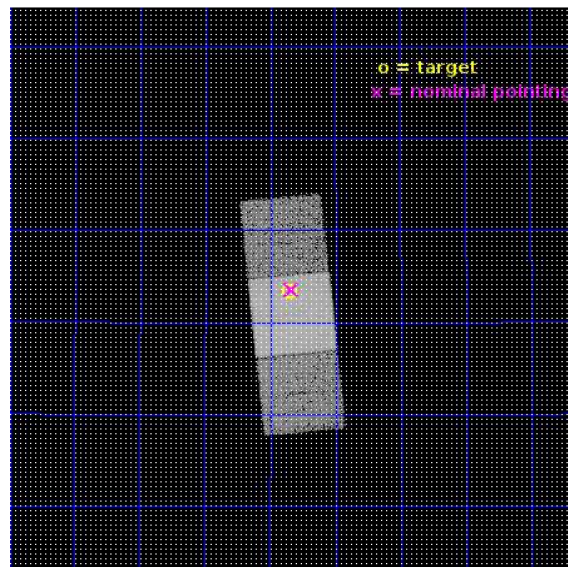
L2 Processing Date : Apr 2 2019

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1 Front

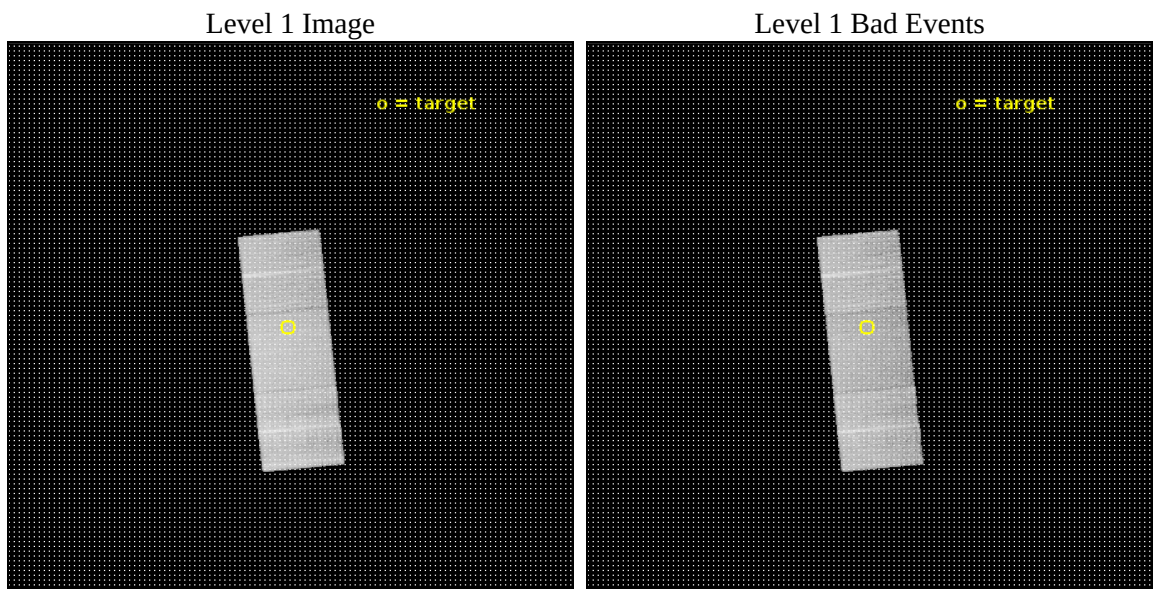
seq_num	703877	Sequence number
obs_id	22170	Observation id
title	X-RAY SURVEYING RADIO-LOUD ACTIVE GALAXIES AND THEIR LARGE-SCALE ENVIRONMENTS	Proposal title
observer	Francesco Massaro	Principal investigator
object	B2.2 2104+24	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	316.588287	Observer's specified target RA [deg]
dec_targ	24.556299	Observer's specified target Dec [deg]
ra_nom	316.58423616256	Nominal RA [deg]
dec_nom	24.559462120023	Nominal Dec [deg]
roll_nom	84.158313110387	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16612.104438424	Sum of GTIs [s]
livetime	16395.055064283	Livetime [s]
ontime6	16612.06339848	Sum of GTIs [s]
ontime7	16612.104438424	Sum of GTIs [s]
ontime8	16608.881368399	Sum of GTIs [s]
l2events	96138	Number of level 2 events



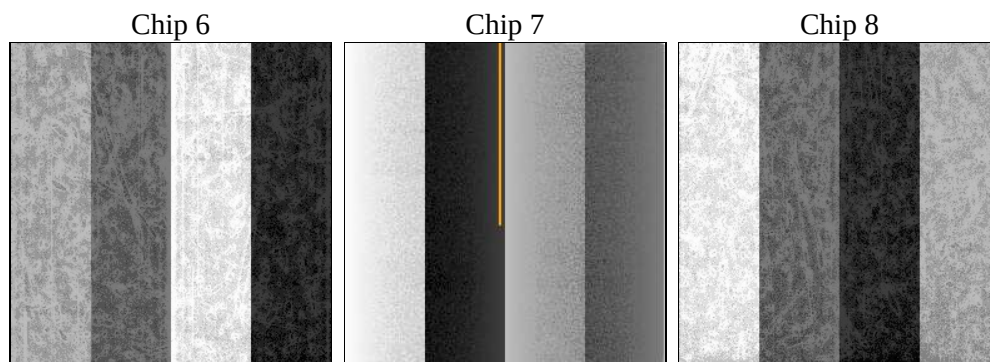
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16500.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	16612.104438424	Sum of GTIs [s]
caldbver	4.8.2	 	ontime6	16612.06339848	Sum of GTIs [s]
date	2019-04-02T13:53:17	Date and time of file creation	ontime7	16612.104438424	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	16608.881368399	Sum of GTIs [s]
			l1events	454480	Number of level 1 events

2.1.4 Events

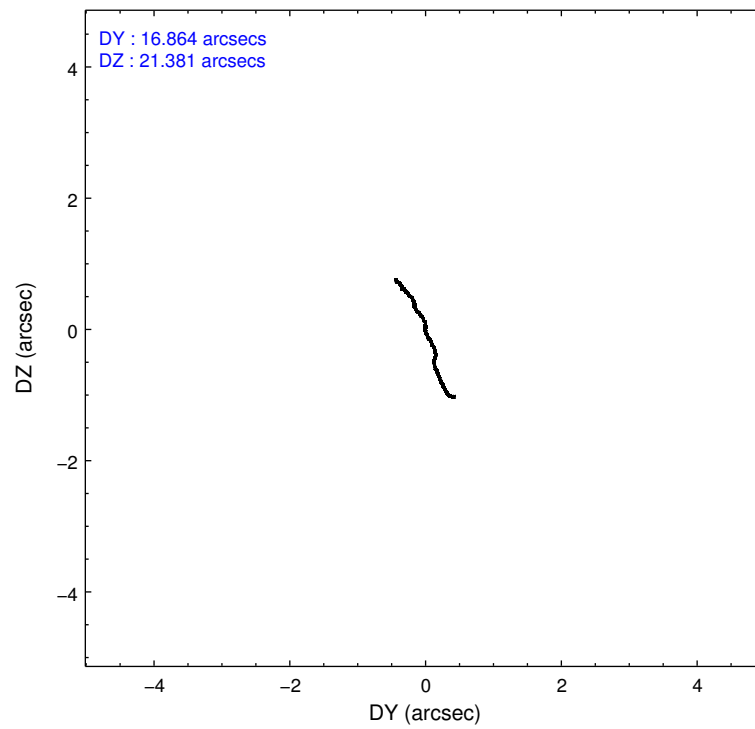
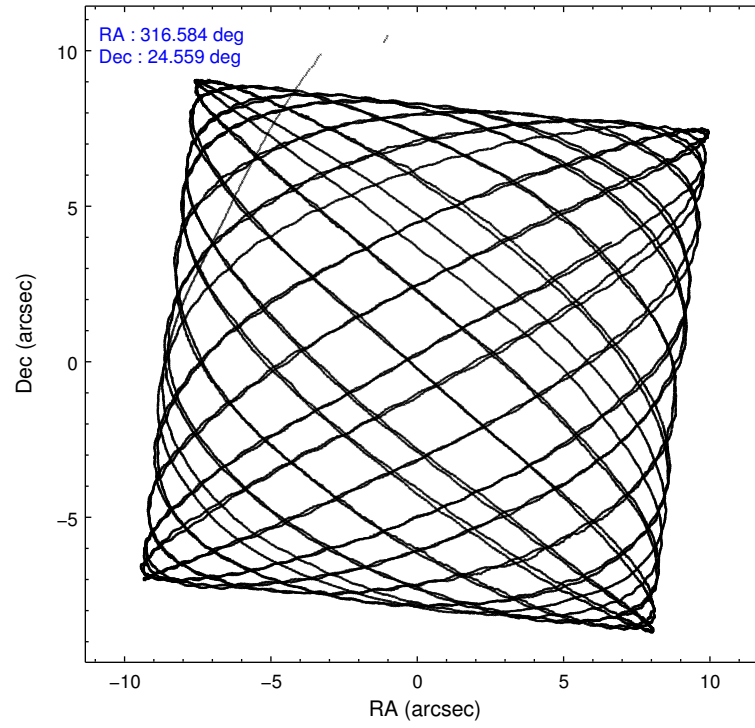
	ccd 6	ccd 7	ccd 8
level 1 events	127448	160499	166533
rejected events	113320	90614	120831
rejected %	88%	56%	72%

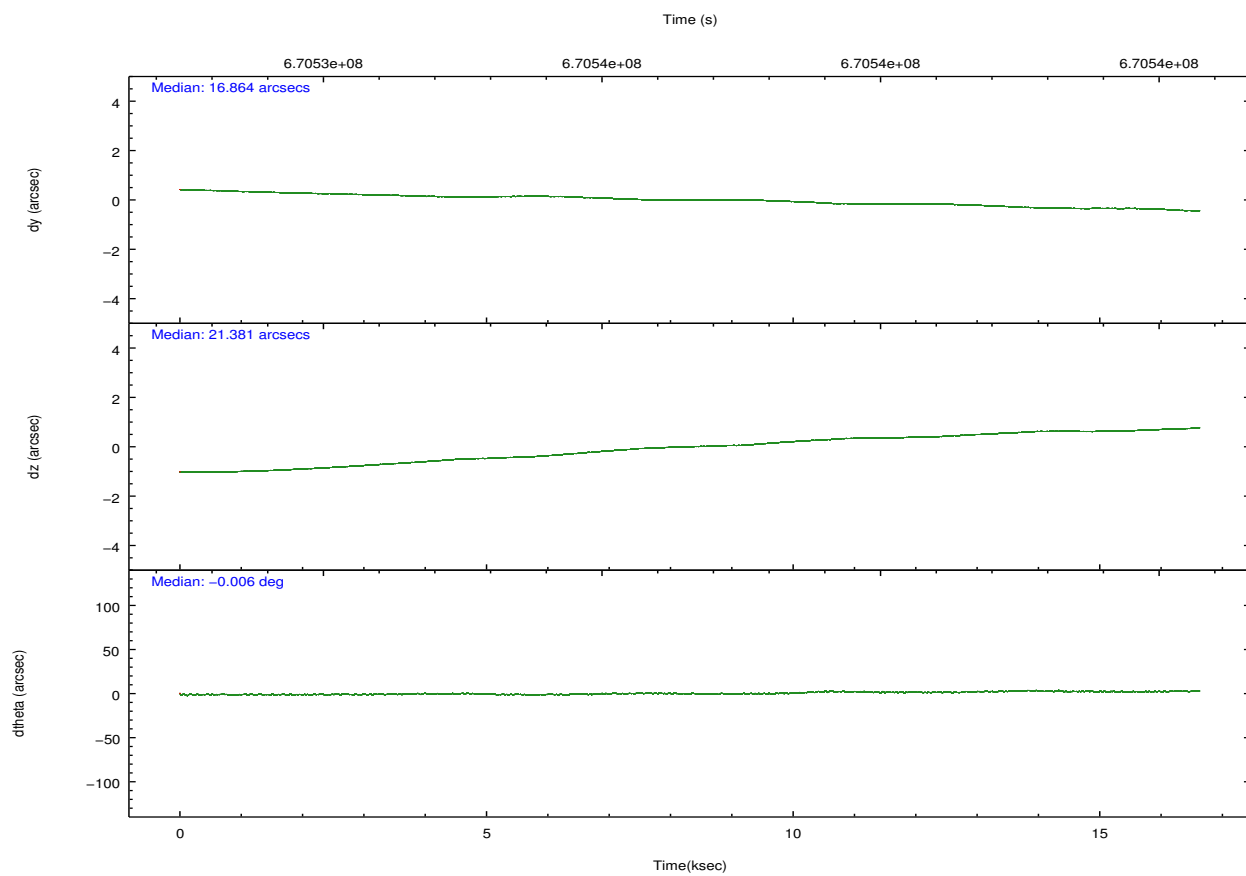
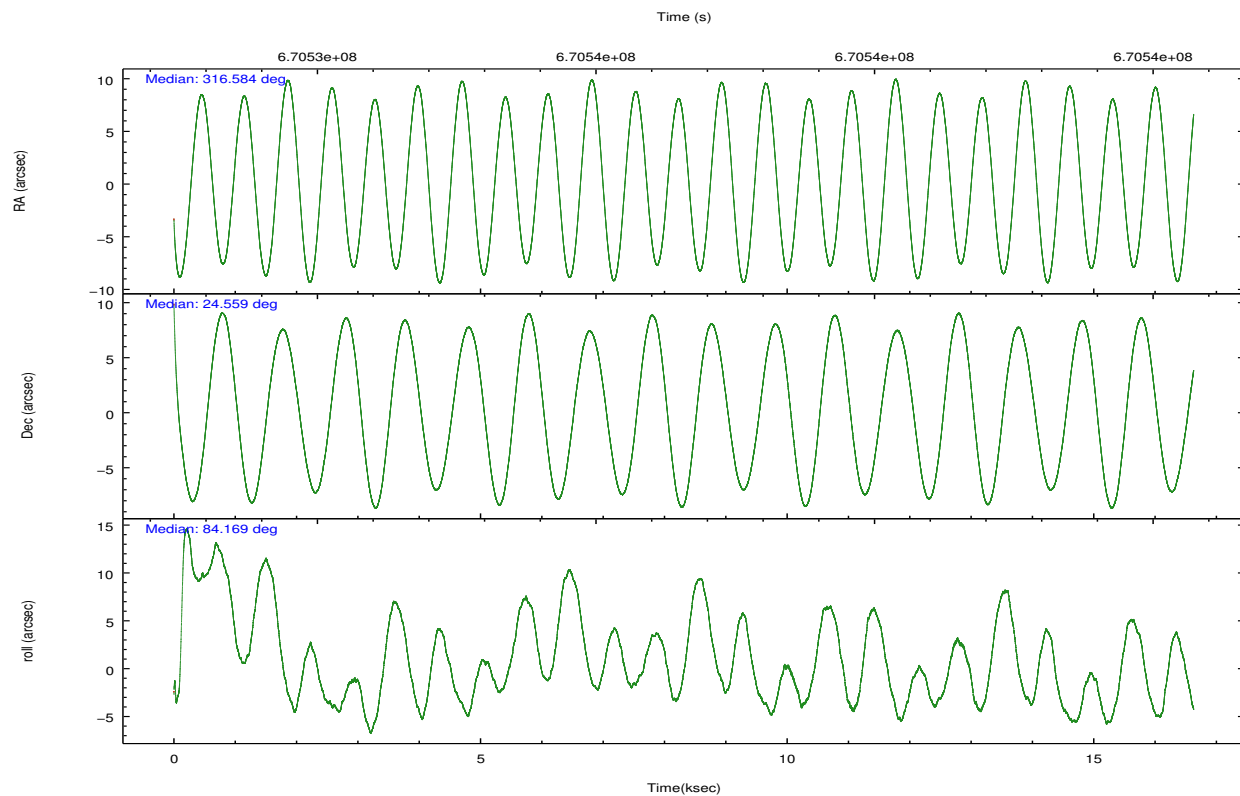
	ccd 6	ccd 7	ccd 8
grade 0 events	4549	5946	13182
	3%	3%	7%
grade 1 events	58	254	149
	0%	0%	0%
grade 2 events	3388	15077	11040
	2%	9%	6%
grade 3 events	1354	5477	4600
	1%	3%	2%
grade 4 events	1422	5245	4296
	1%	3%	2%
grade 5 events	5708	15566	8959
	4%	9%	5%
grade 6 events	3416	38157	12616
	2%	23%	7%
grade 7 events	107553	74777	111691
	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	316.596972	316.5842361625581	Subarray requested	NONE	NONE
[deg] Pointing Dec	24.534602	24.55946212002264	Alternating exposures requested	N	N
[deg] Pointing Roll	83.996400	84.15831311038727	[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)	670528415.184000	670527106.1305799			
Observation start date	2019-04-01T17:52:26	2019-04-01T17:31:46			
[s] Observation end time (MET)	670544915.184000	670545891.8192			
Observation end date	2019-04-01T22:27:26	2019-04-01T22:44:51			
Read mode	TIMED	TIMED			

2.3 Aspect



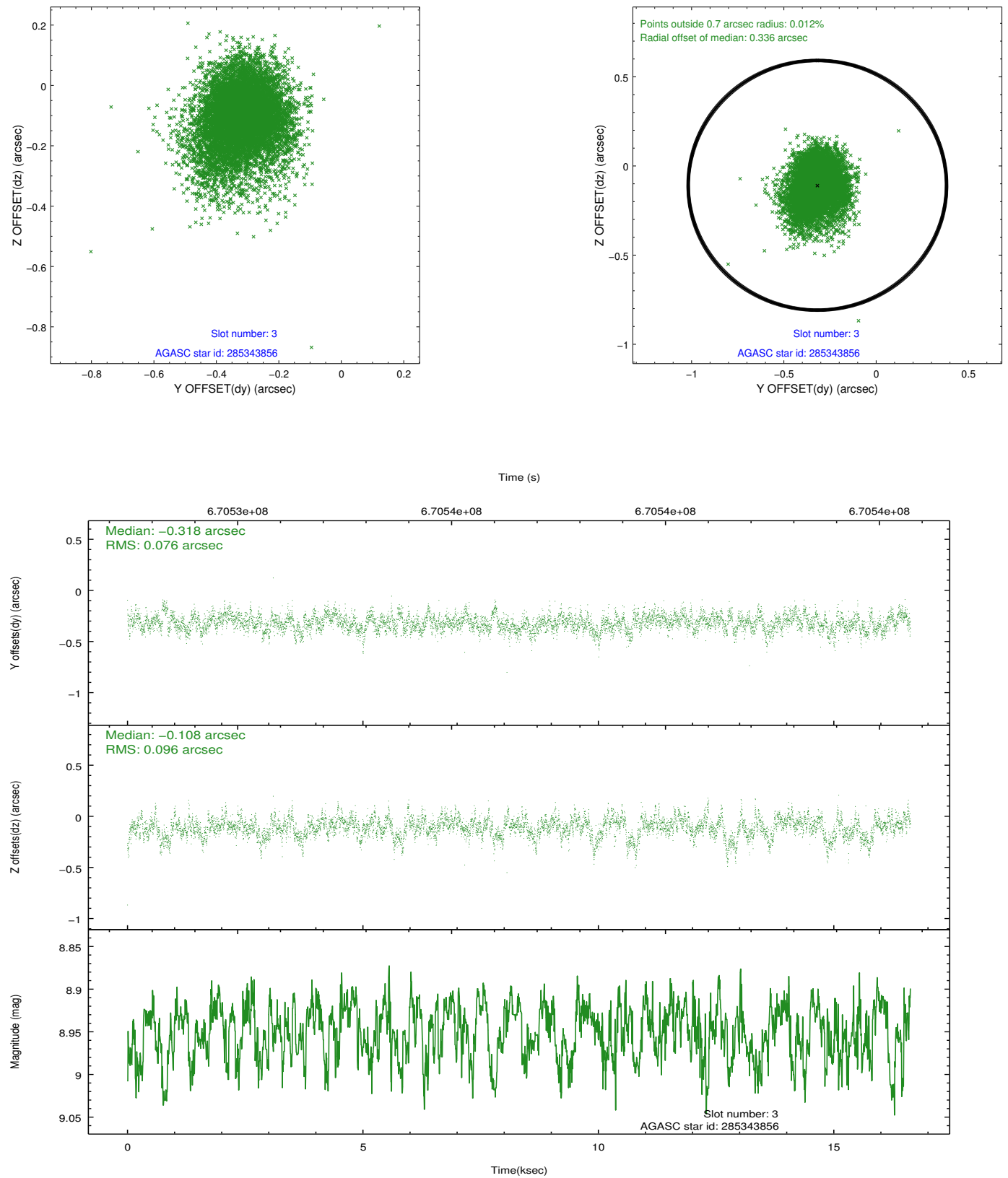


Slot Statistics

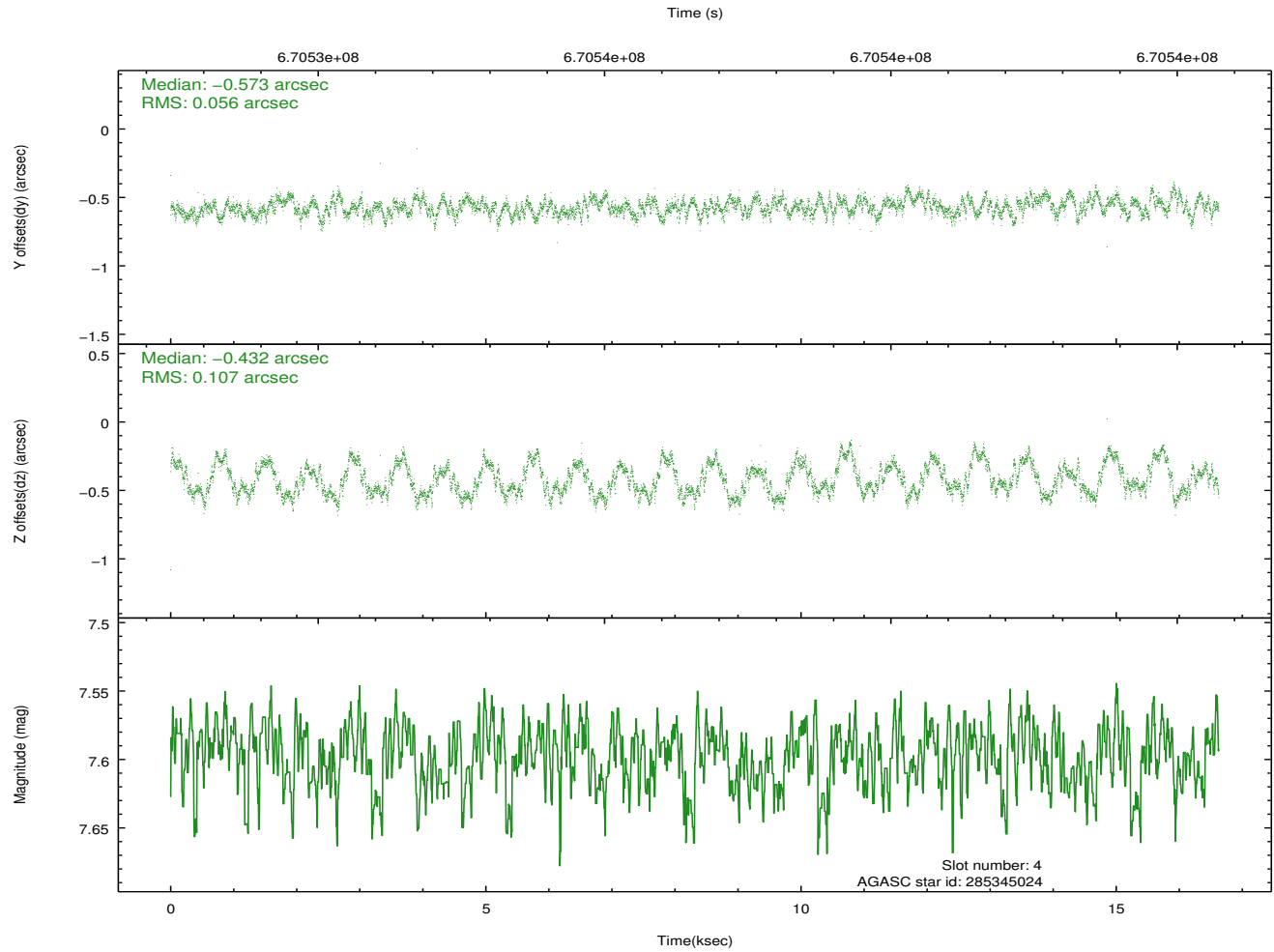
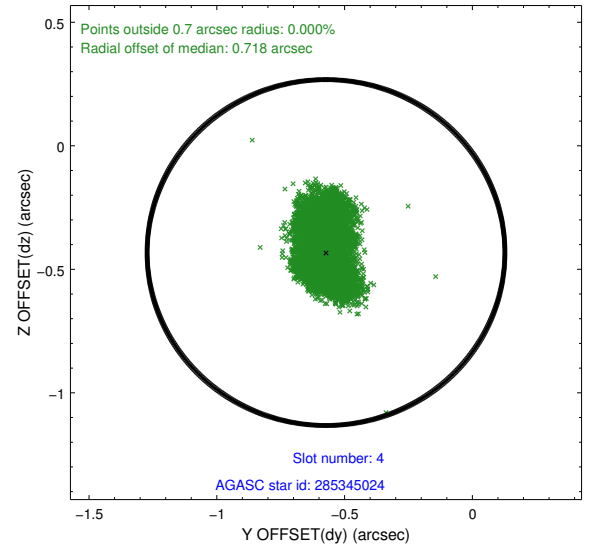
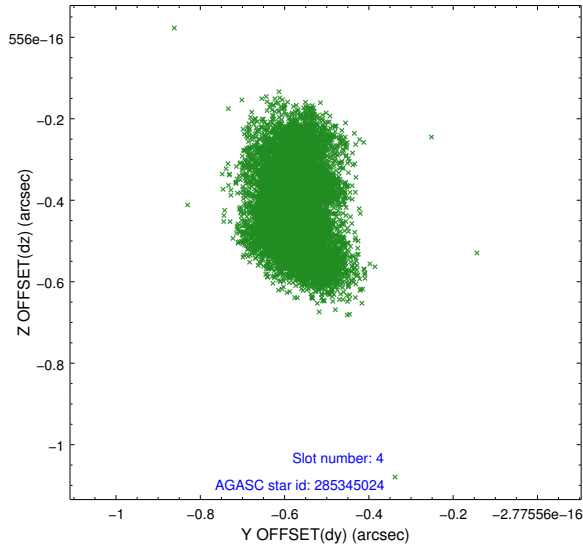
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	4057	1.000	-0.334	-0.239	0.013	0.020	0.000000	0.000000	-770.13	-1743
1	FID		ACIS-S-4	7.15	4057	1.000	0.806	0.224	0.031	0.041	0.000000	0.000000	2144.08	165
2	FID		ACIS-S-5	7.11	4056	1.000	-0.501	0.024	0.026	0.036	0.000000	0.000000	-1822.89	159
3	GUIDE	used	285343856	8.95	8102	1.000	-0.318	-0.108	0.126	0.220	316.451864	25.070890	1870.62	672
4	GUIDE	used	285345024	7.60	8111	1.000	-0.573	-0.432	0.130	0.205	316.314977	25.110262	1965.34	1130
5	GUIDE	used	285347784	7.59	8113	1.000	0.049	-0.160	0.083	0.131	316.511617	24.538191	-15.84	279
6	GUIDE	used	285349008	7.88	8112	1.000	0.105	0.017	0.105	0.174	316.493887	24.498592	-164.59	322
7	GUIDE	used	284830304	8.41	8106	1.000	0.741	0.680	0.113	0.177	317.035461	24.099082	-1406.16	-1595

2.4 Star Slots

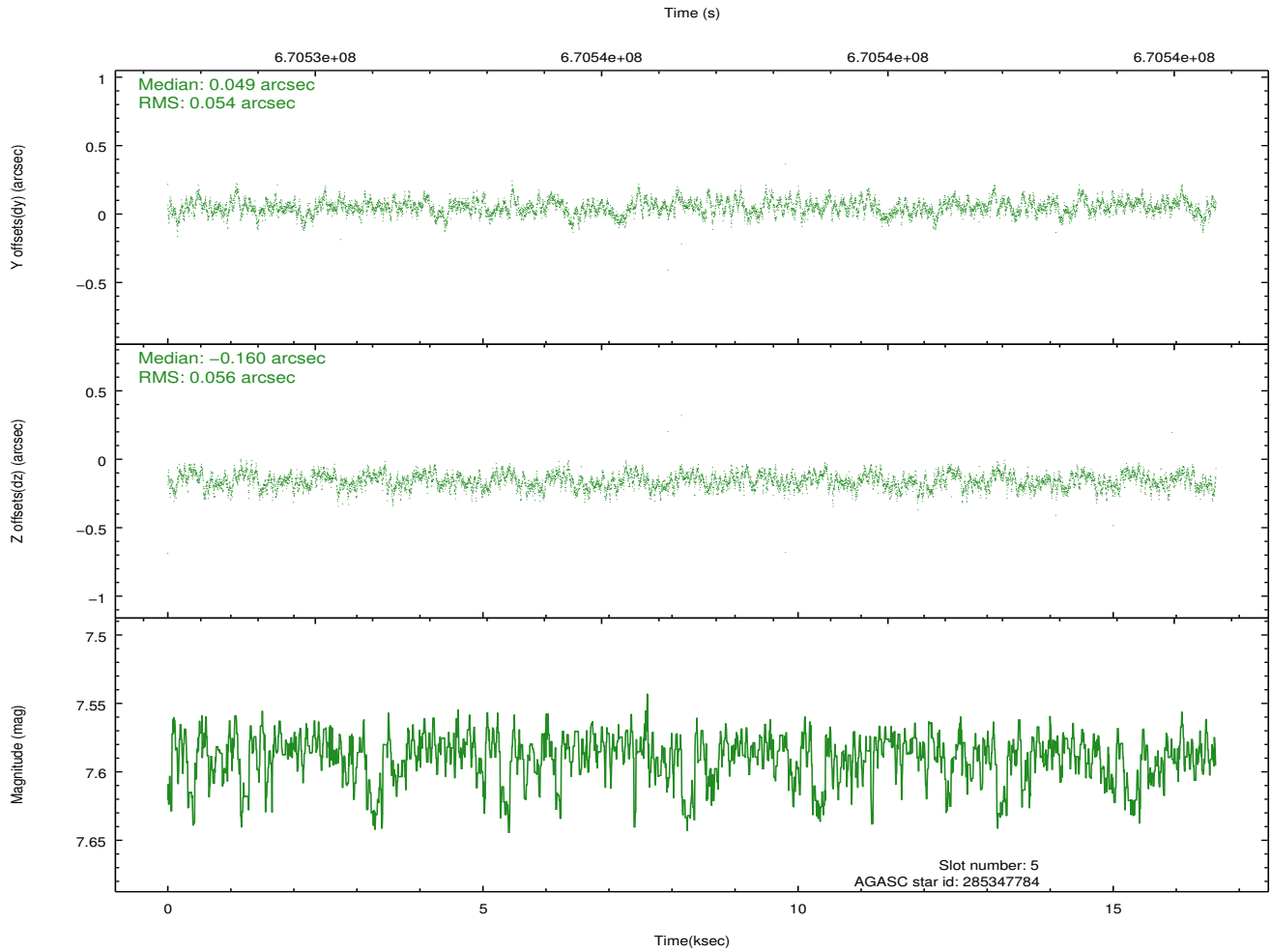
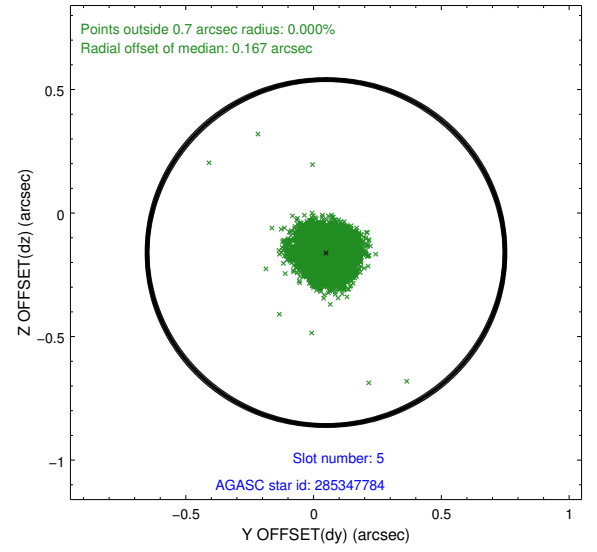
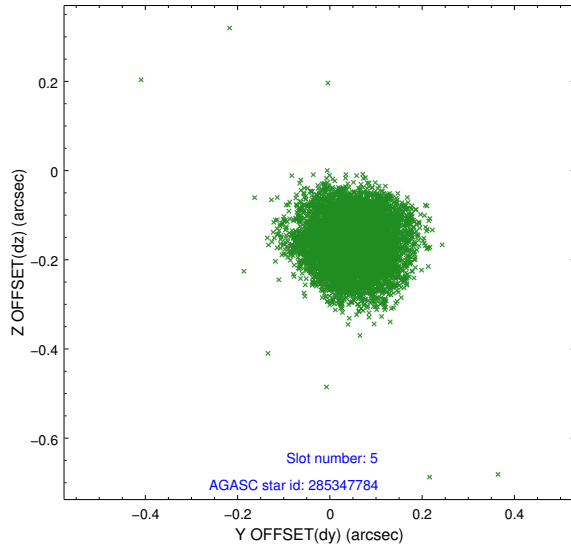
2.4.1 Slot 3



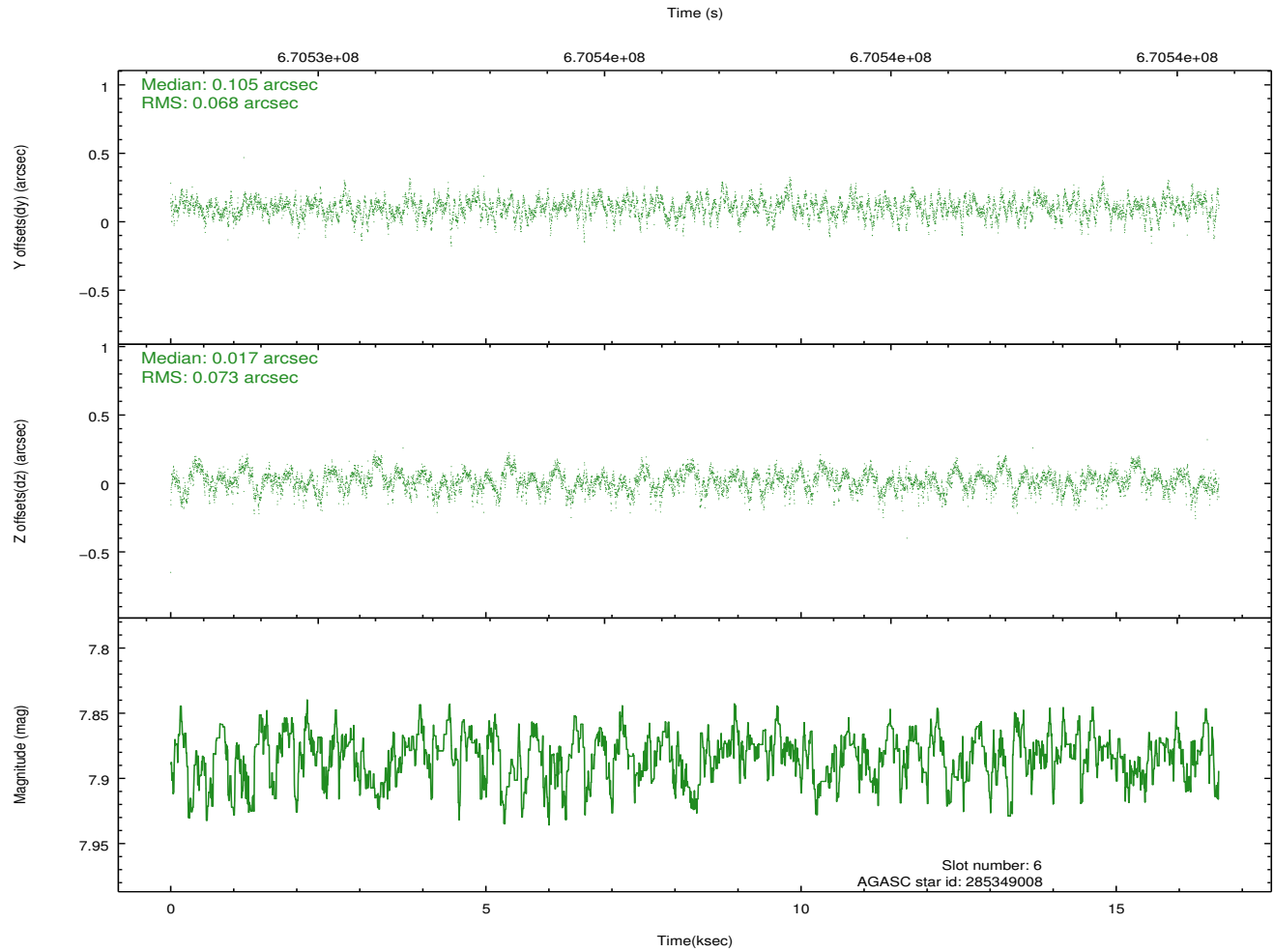
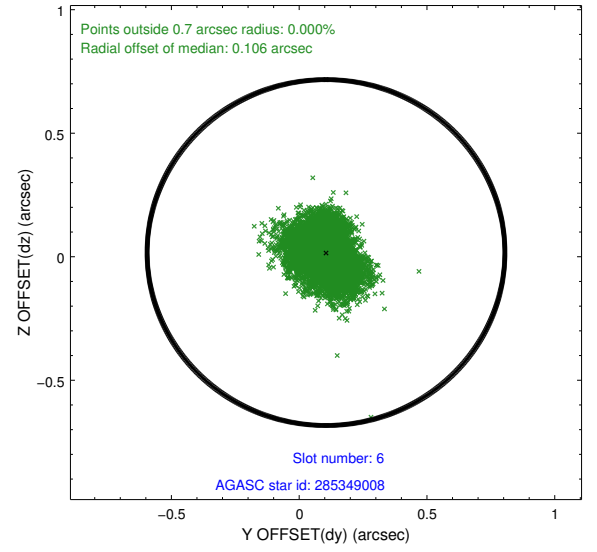
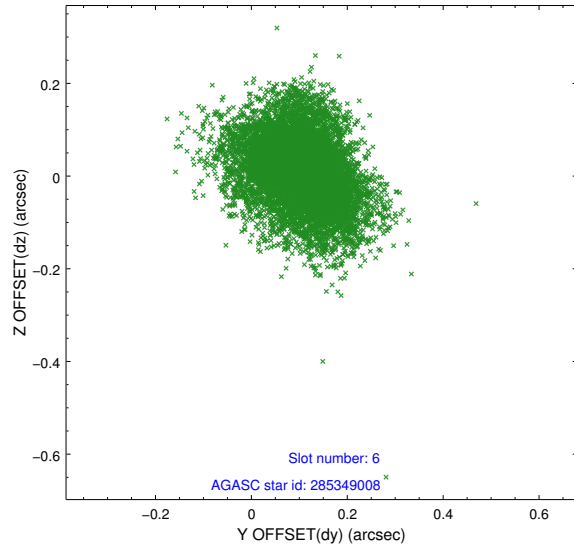
2.4.2 Slot 4



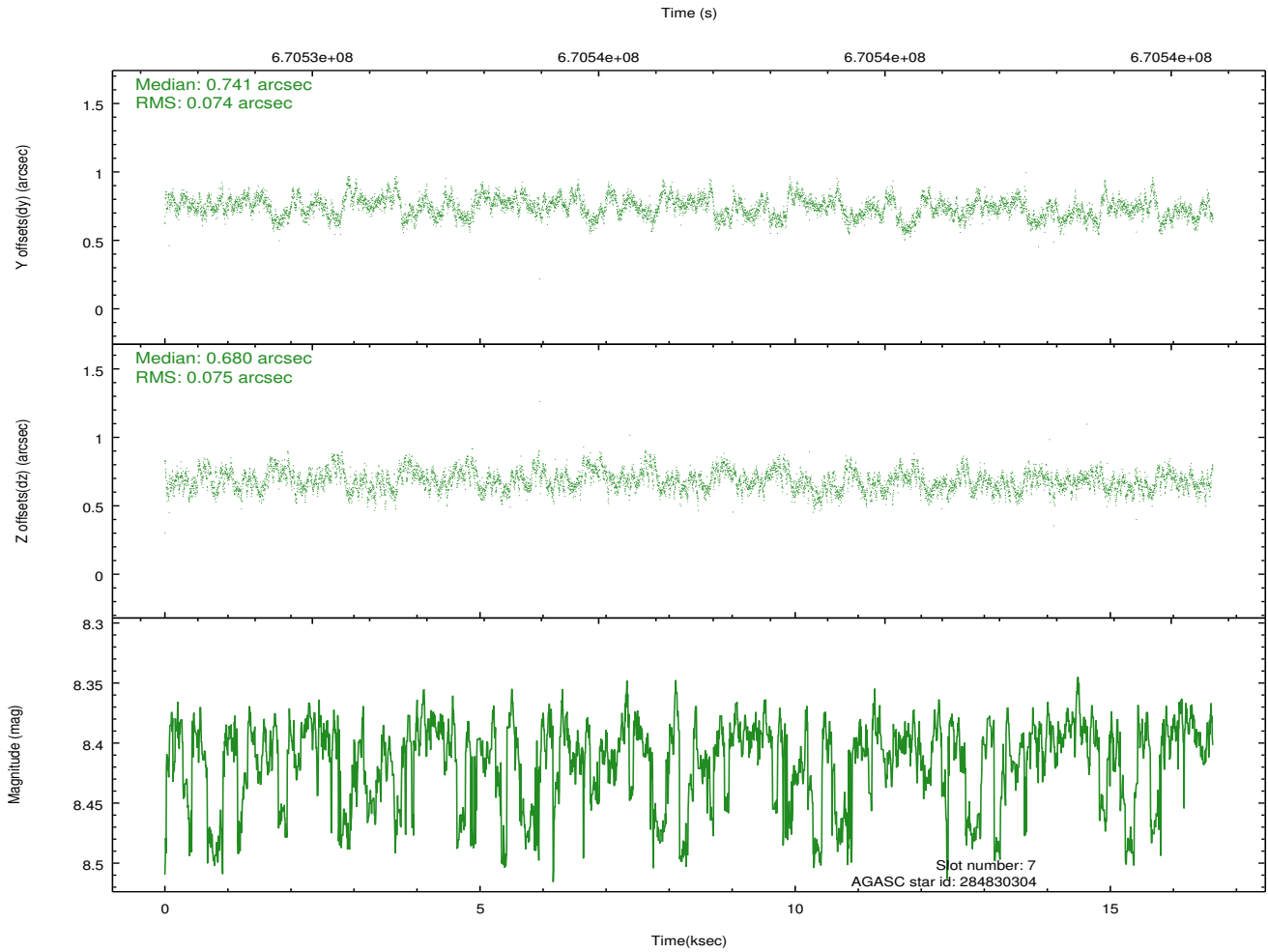
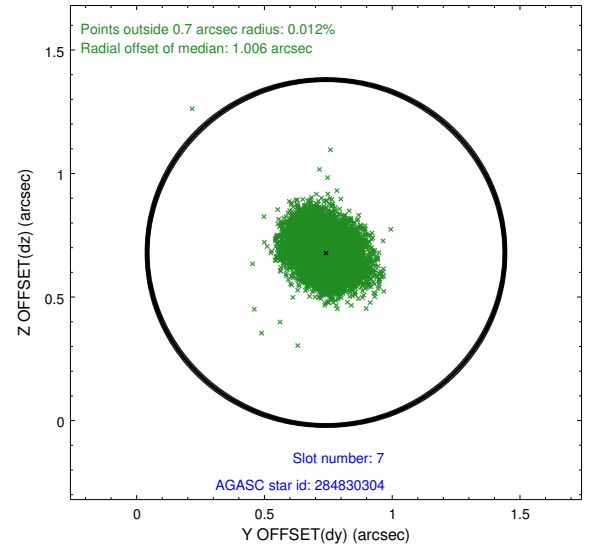
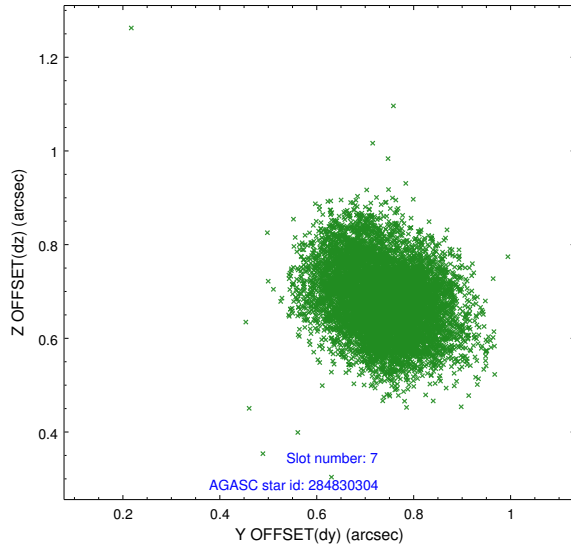
2.4.3 Slot 5



2.4.4 Slot 6

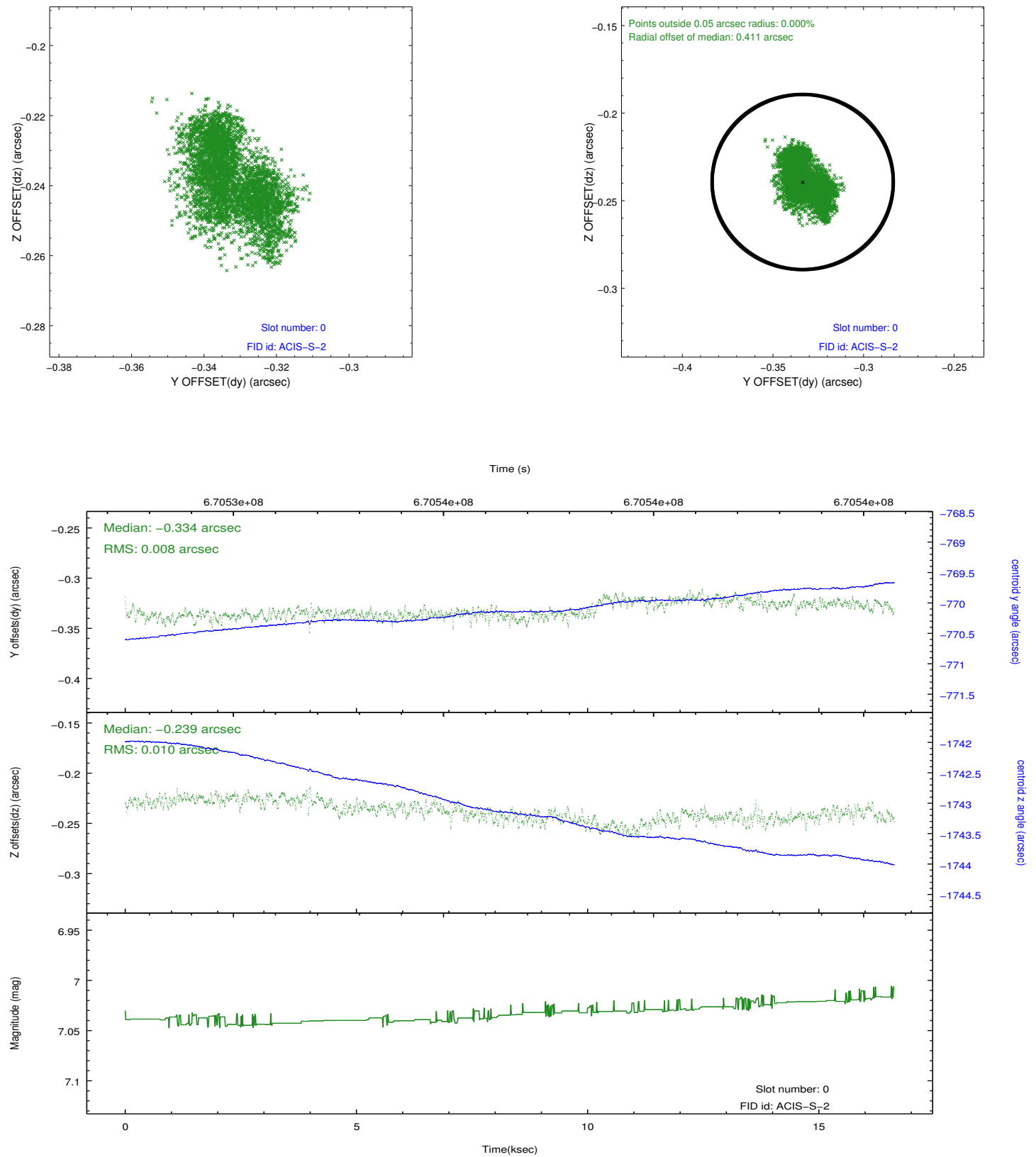


2.4.5 Slot 7

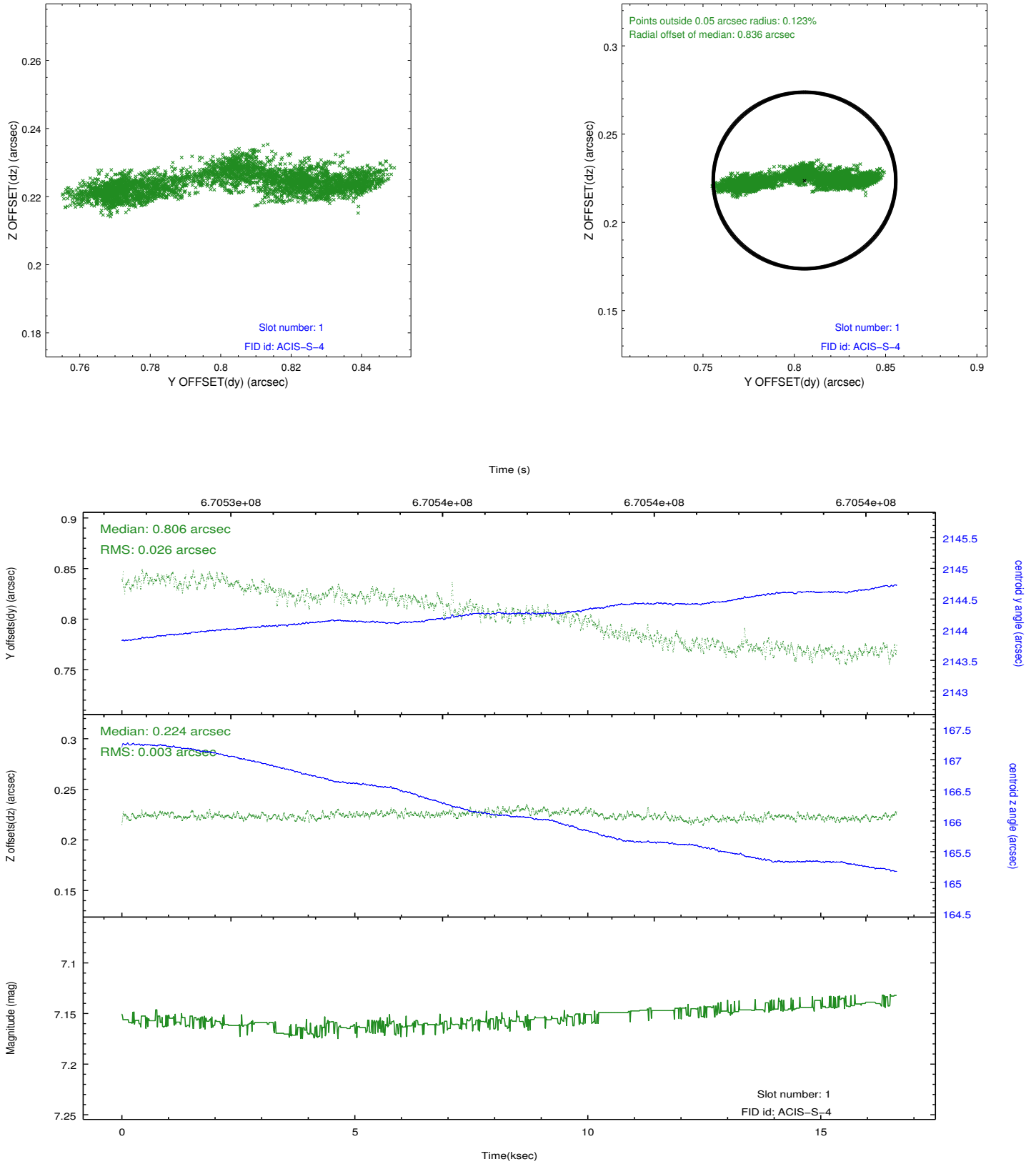


2.5 FID Slots

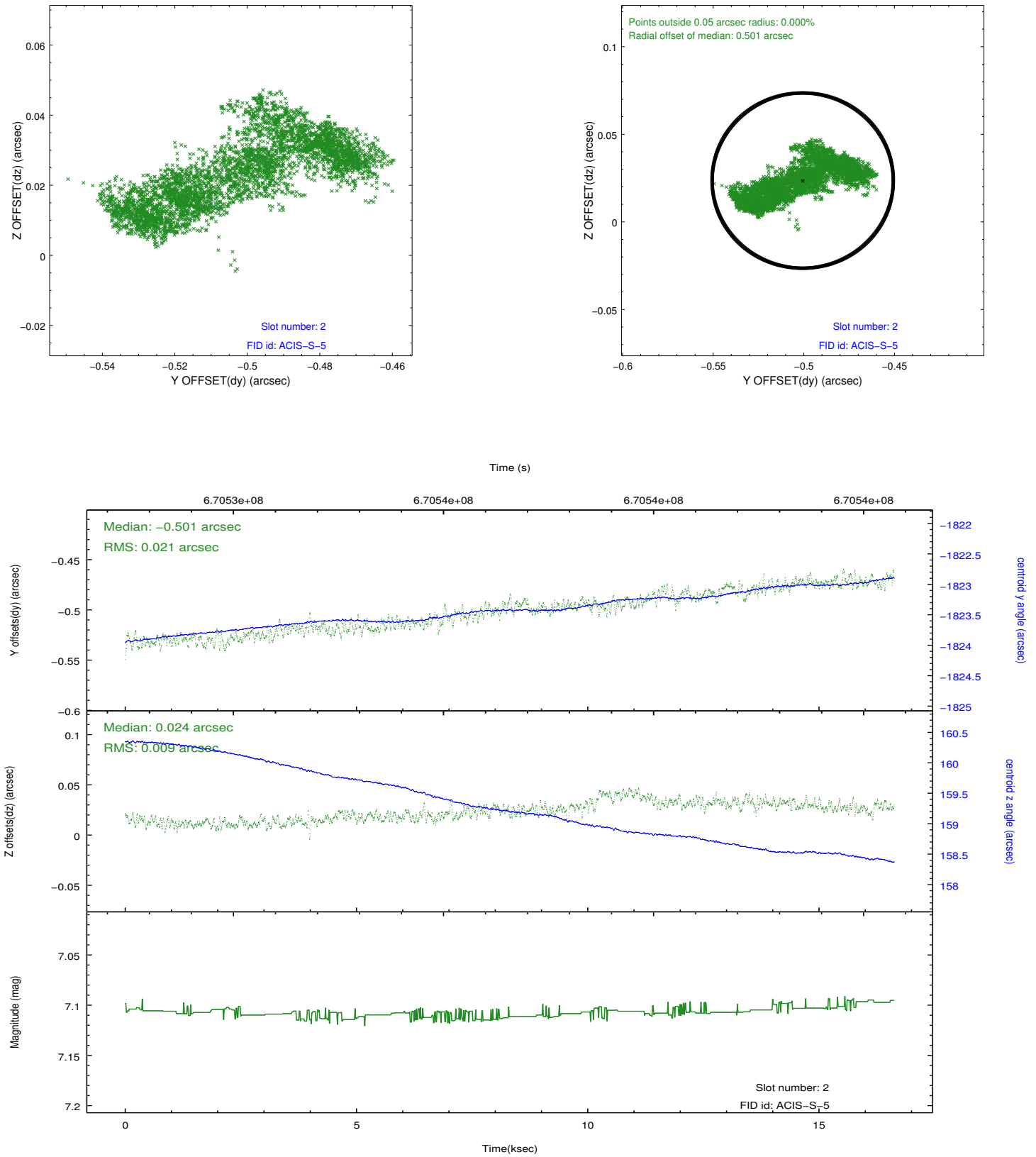
2.5.1 Slot 0



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)	2019.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.612104438424

A.2 Comments