

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19368 - L2 Version 1
Chandra X-Ray Center

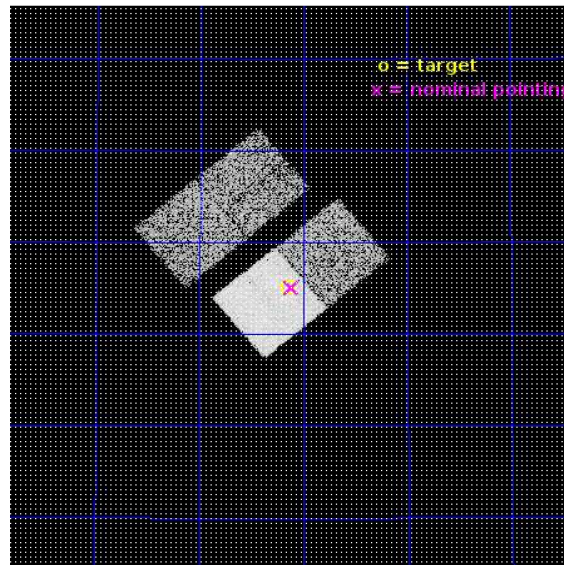
L2 Processing Date : Feb 15 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

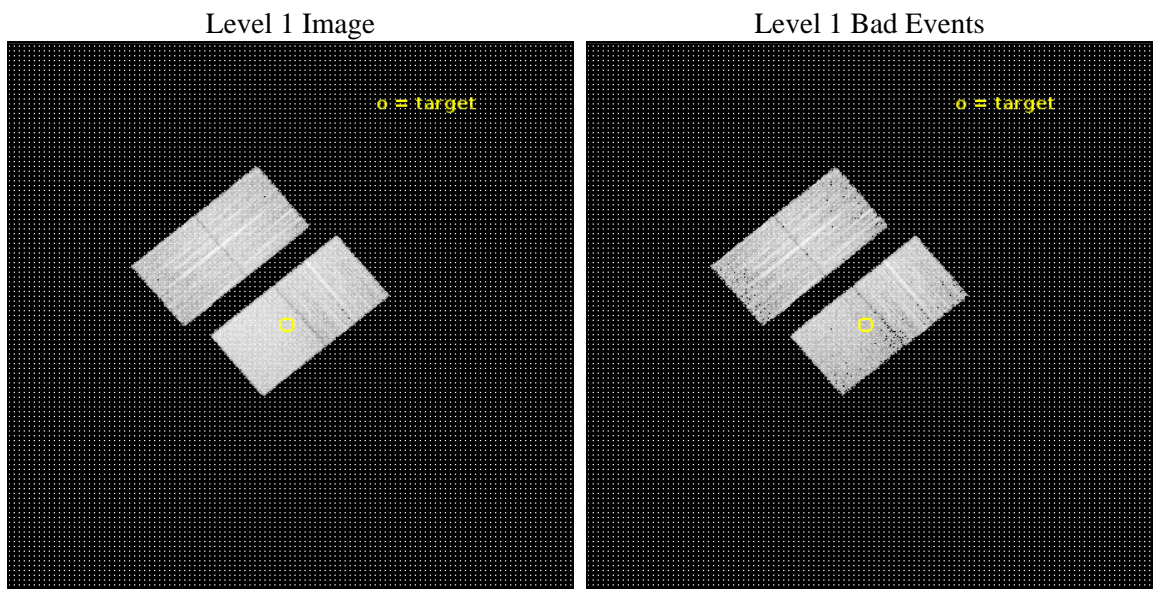
seq_num	601325	Sequence number
obs_id	19368	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 3675	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	171.535833	Observer's specified target RA [deg]
dec_targ	43.585917	Observer's specified target Dec [deg]
ra_nom	171.52941064161	Nominal RA [deg]
dec_nom	43.584759414128	Nominal Dec [deg]
roll_nom	140.36612697396	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8069.3000621796	Sum of GTIs [s]
livetime	7963.8687163349	Livetime [s]
ontime2	8069.3000621796	Sum of GTIs [s]
ontime3	8069.3000621796	Sum of GTIs [s]
ontime6	8069.3000621796	Sum of GTIs [s]
ontime7	8069.3000621796	Sum of GTIs [s]
l2events	46854	Number of level 2 events



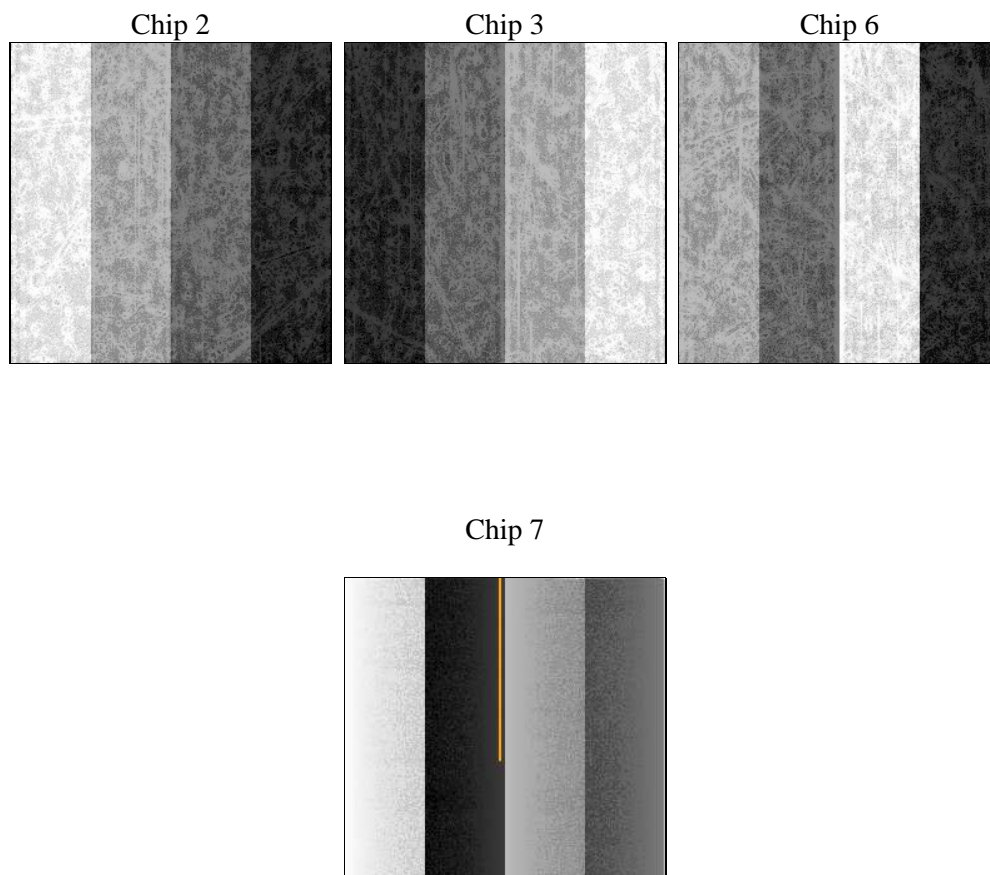
2 OBI

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	10.5.2	Processing system revision	ontime	8069.3000621796	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	8069.3000621796	Sum of GTIs [s]
date	2017-02-15T14:16:40	Date and time of file creation	ontime3	8069.3000621796	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8069.3000621796	Sum of GTIs [s]
			ontime7	8069.3000621796	Sum of GTIs [s]
			l1events	250236	Number of level 1 events

2.1.4 Events

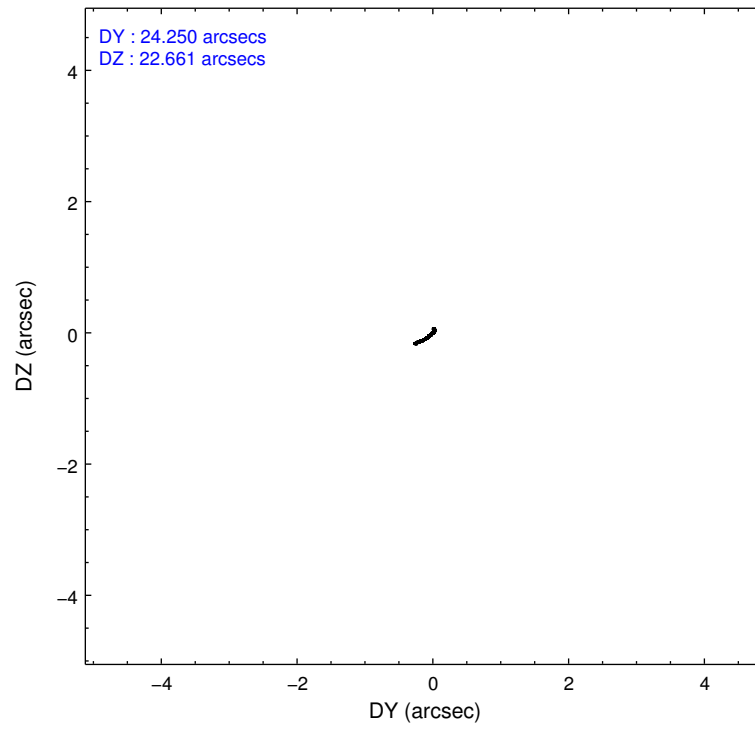
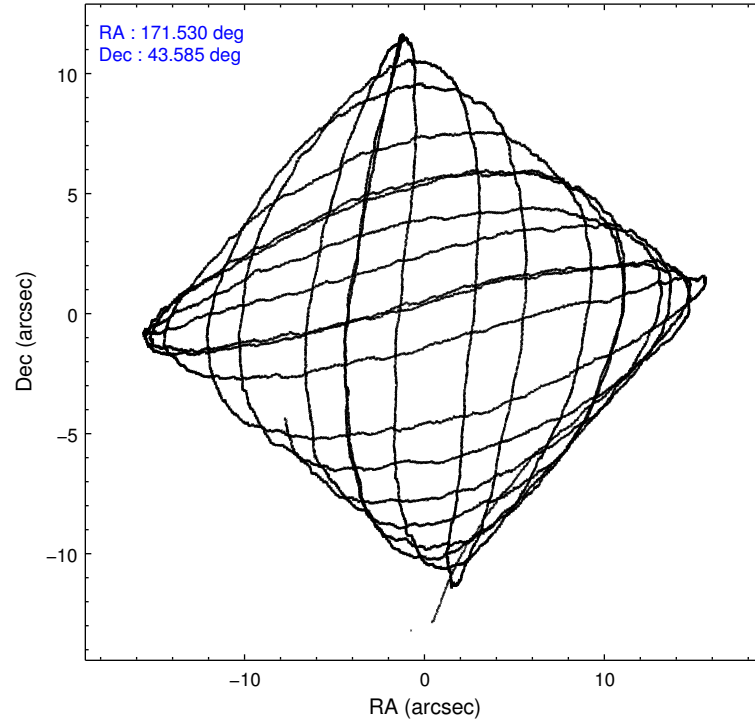
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	59311	55514	60886	74525
rejected events	53385	49781	54427	42615
rejected %	90%	89%	89%	57%

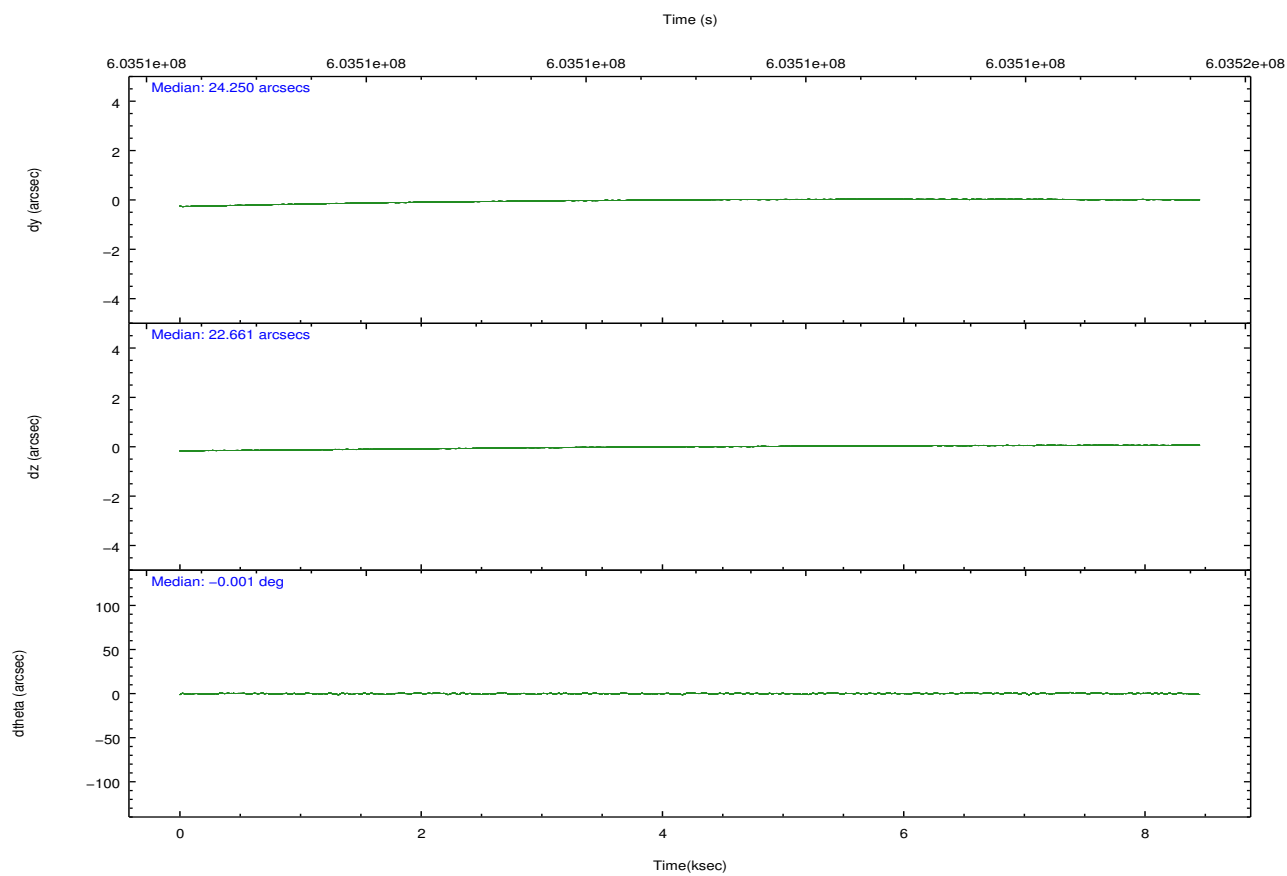
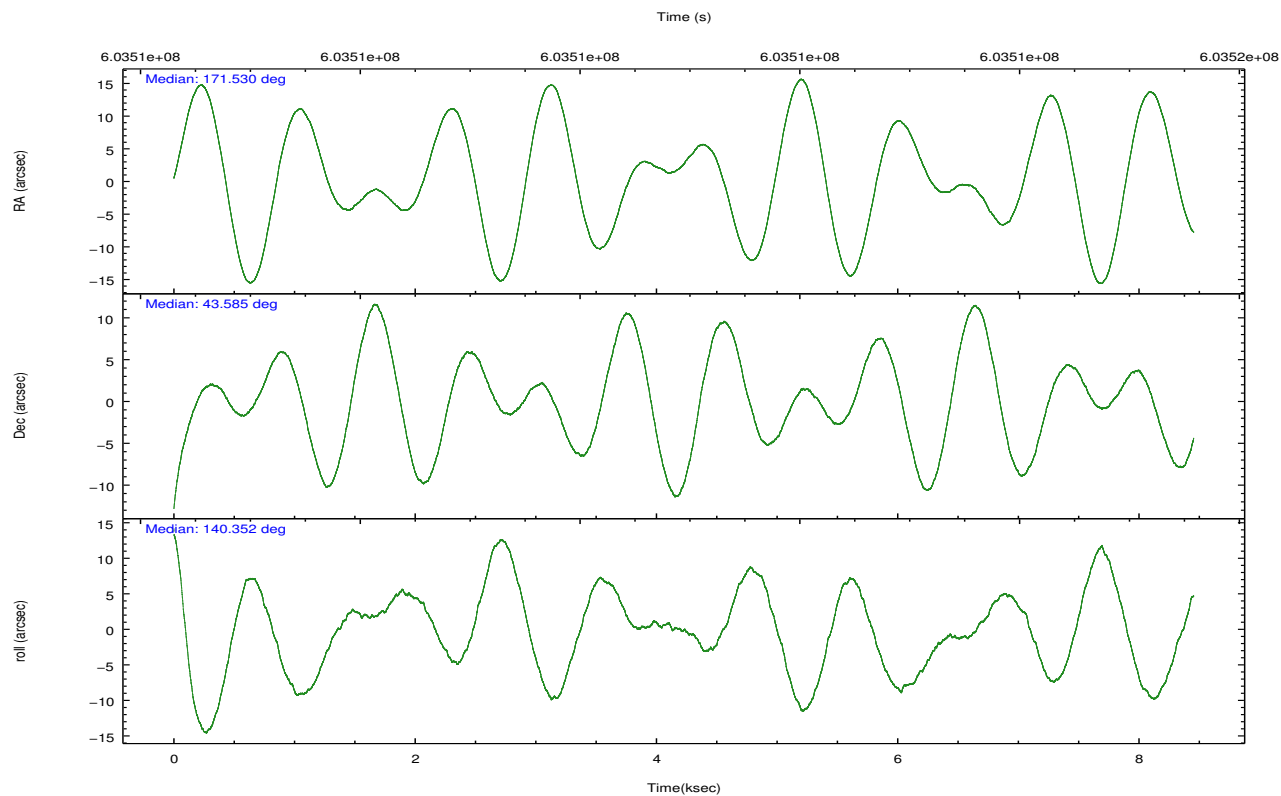
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2132	1950	2045	2566
	3%	3%	3%	3%
grade 1 events	36	34	20	99
	0%	0%	0%	0%
grade 2 events	1399	1283	1545	6960
	2%	2%	2%	9%
grade 3 events	640	659	633	2482
	1%	1%	1%	3%
grade 4 events	625	590	647	2454
	1%	1%	1%	3%
grade 5 events	2309	2705	2690	7023
	3%	4%	4%	9%
grade 6 events	1136	1255	1593	17475
	1%	2%	2%	23%
grade 7 events	51034	47038	51713	35466
	86%	84%	84%	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	171.566764	171.5294106416055	Subarray requested	NONE	NONE
[deg] Pointing Dec	43.580580	43.58475941412822	Alternating exposures requested	N	N
[deg] Pointing Roll	140.183740	140.3661269739572	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	603507165.184000	603506149.72611			
Observation start date	2017-02-15T00:51:36	2017-02-15T00:35:49			
[s] Observation end time (MET)	603515165.184000	603515728.35167			
Observation end date	2017-02-15T03:04:56	2017-02-15T03:15:28			
Read mode	TIMED	TIMED			

2.3 Aspect



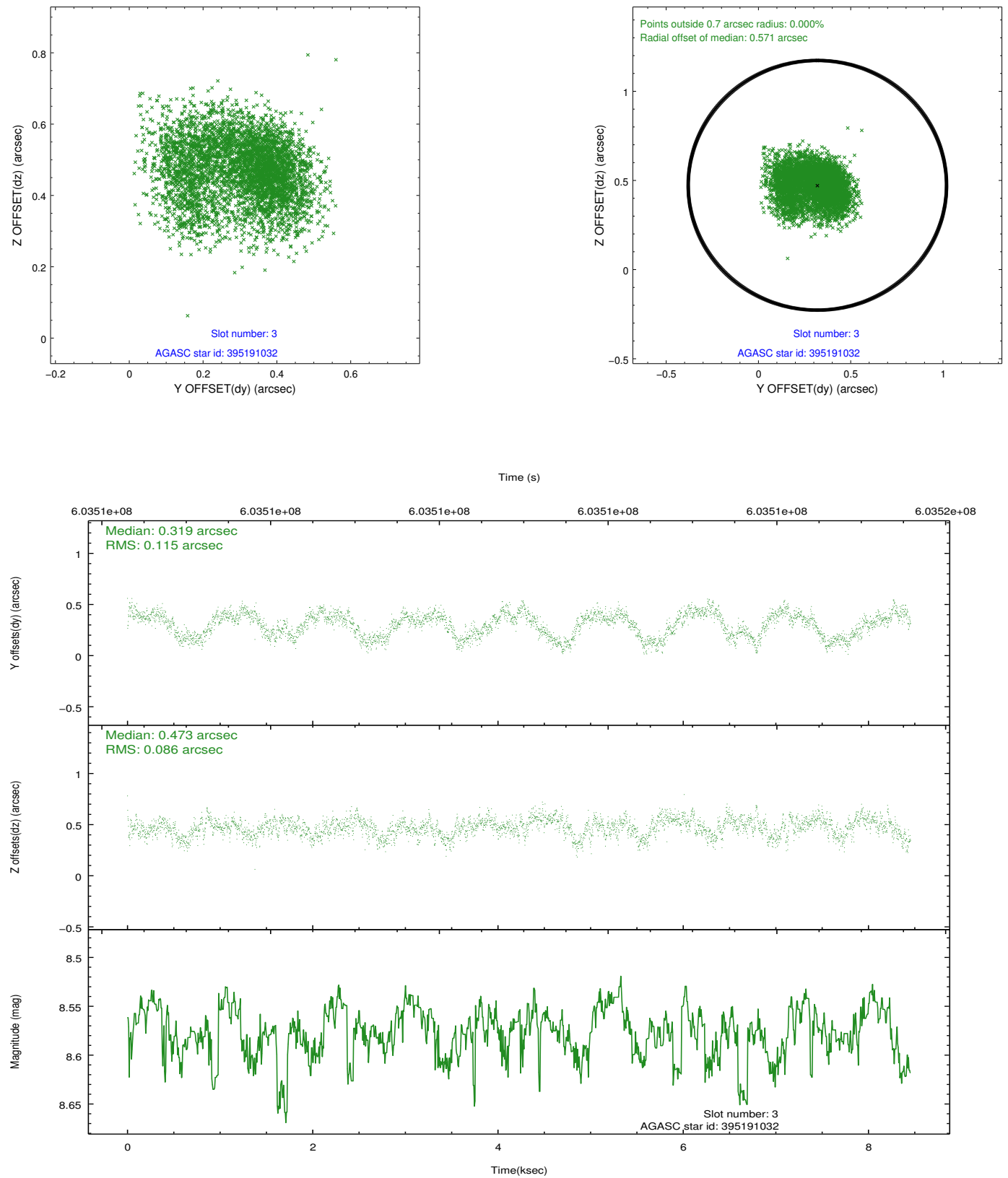


Slot Statistics

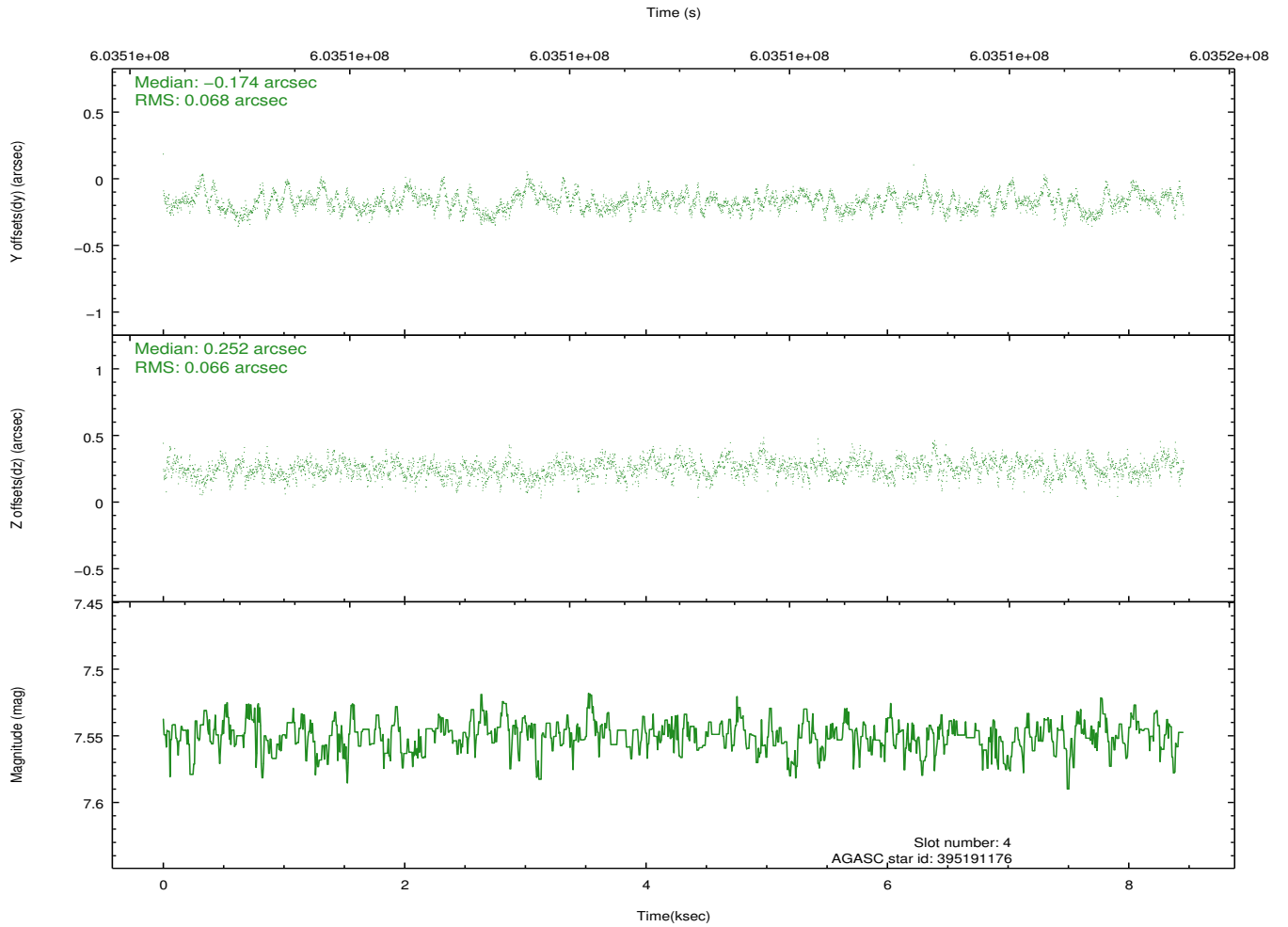
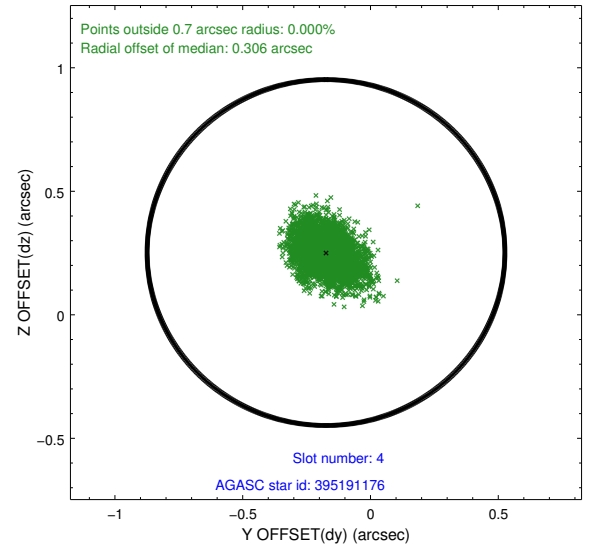
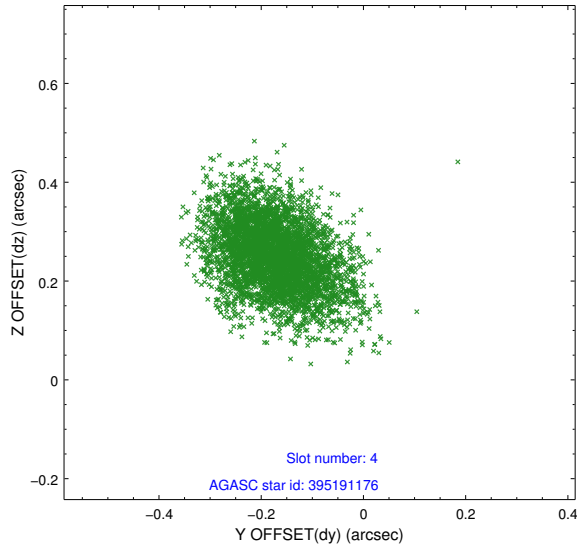
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	2063	-0.379	-0.269	0.008	0.013	0.000000	0.000000	-777.89	-1744.45
1	FID		ACIS-S-4	7.18	2061	0.404	0.215	0.010	0.015	0.000000	0.000000	2135.95	163.68
2	FID		ACIS-S-6	7.36	2062	-0.052	0.062	0.009	0.015	0.000000	0.000000	385.38	801.76
3	GUIDE	used	395191032	8.58	4125	0.319	0.473	0.156	0.238	172.028143	43.695584	-654.01	-1088.85
4	GUIDE	used	395191176	7.55	4125	-0.174	0.252	0.099	0.165	172.125895	43.966583	-220.68	-1997.83
5	GUIDE	used	395196096	8.49	4124	-0.008	0.155	0.260	0.380	172.090975	43.864827	-386.10	-1660.57
6	GUIDE	used	395185304	8.92	4122	-0.211	-0.765	0.135	0.242	170.919785	43.120762	251.04	2356.91
7	GUIDE	used	395194640	7.84	4123	0.058	-0.104	0.122	0.201	171.538291	42.732504	-1897.06	2393.74

2.4 Star Slots

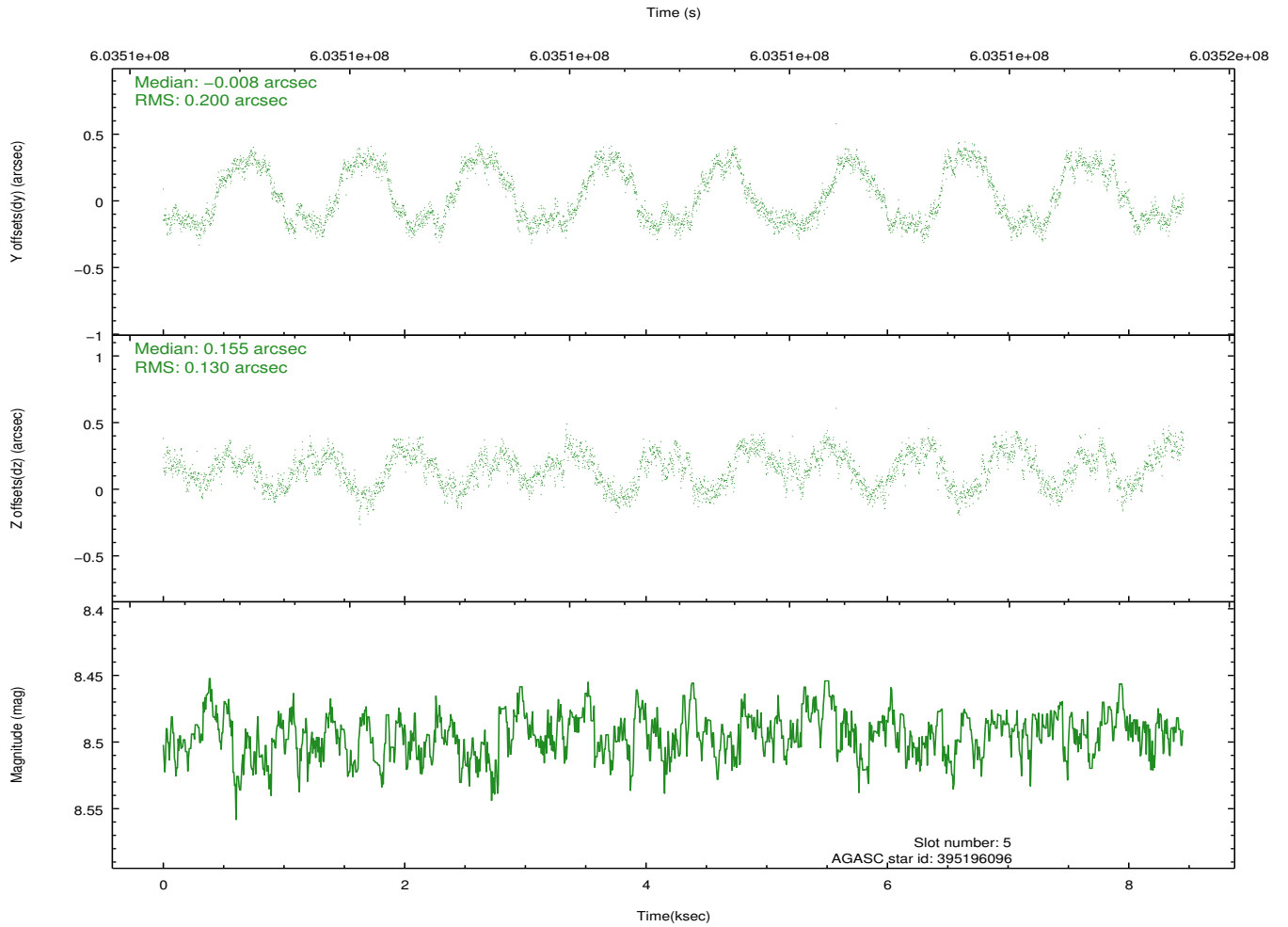
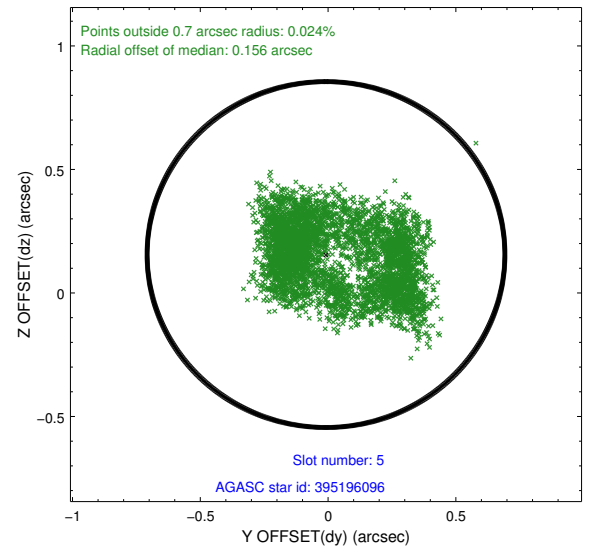
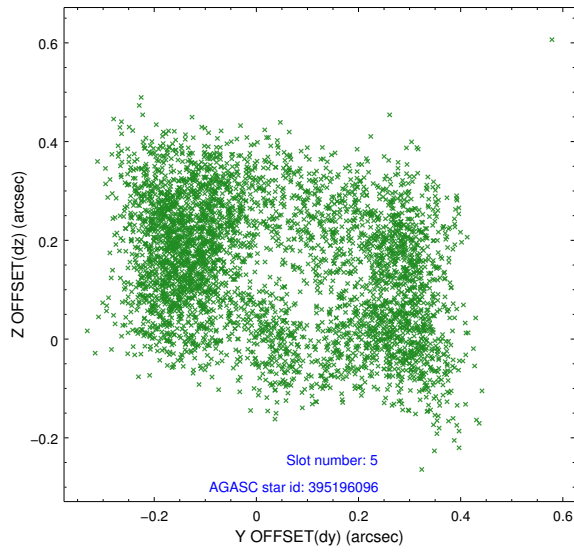
2.4.1 Slot 3



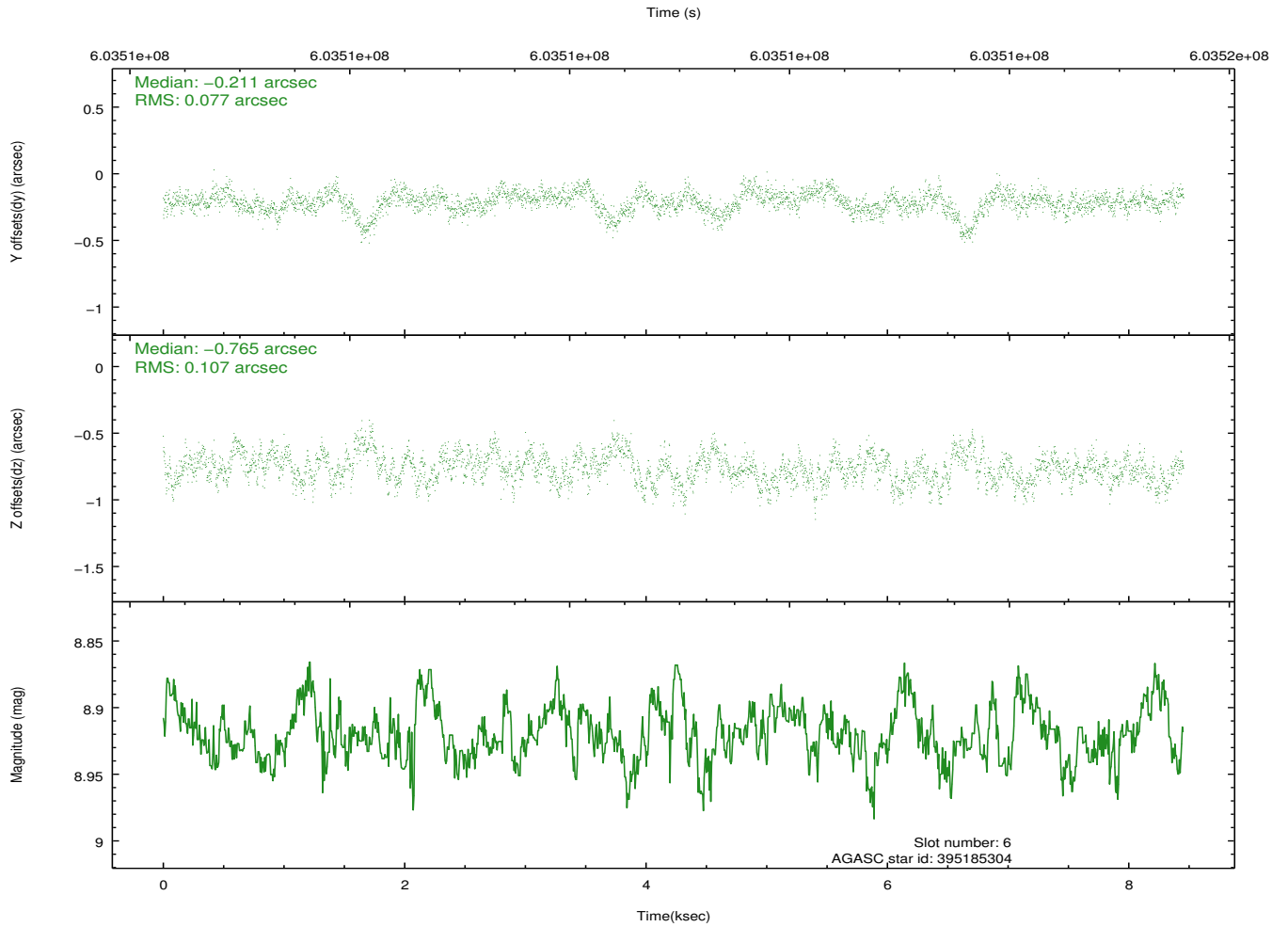
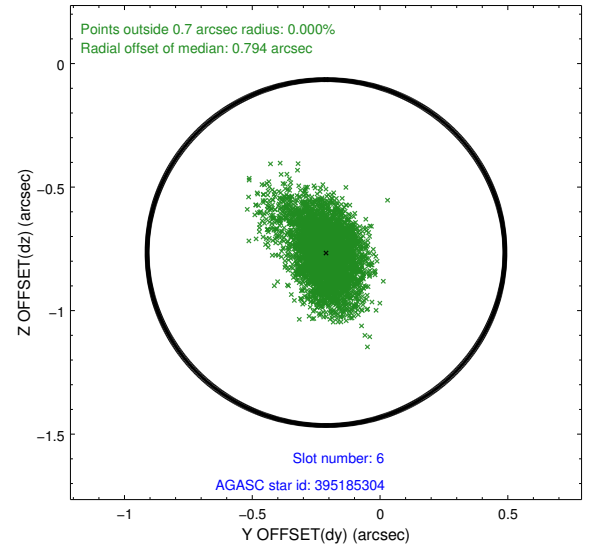
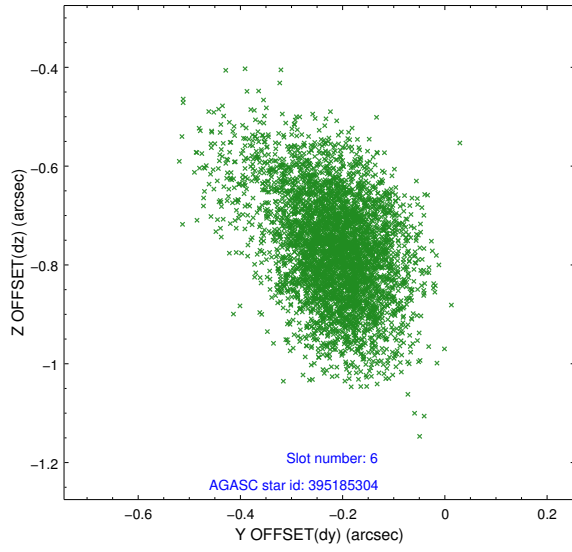
2.4.2 Slot 4



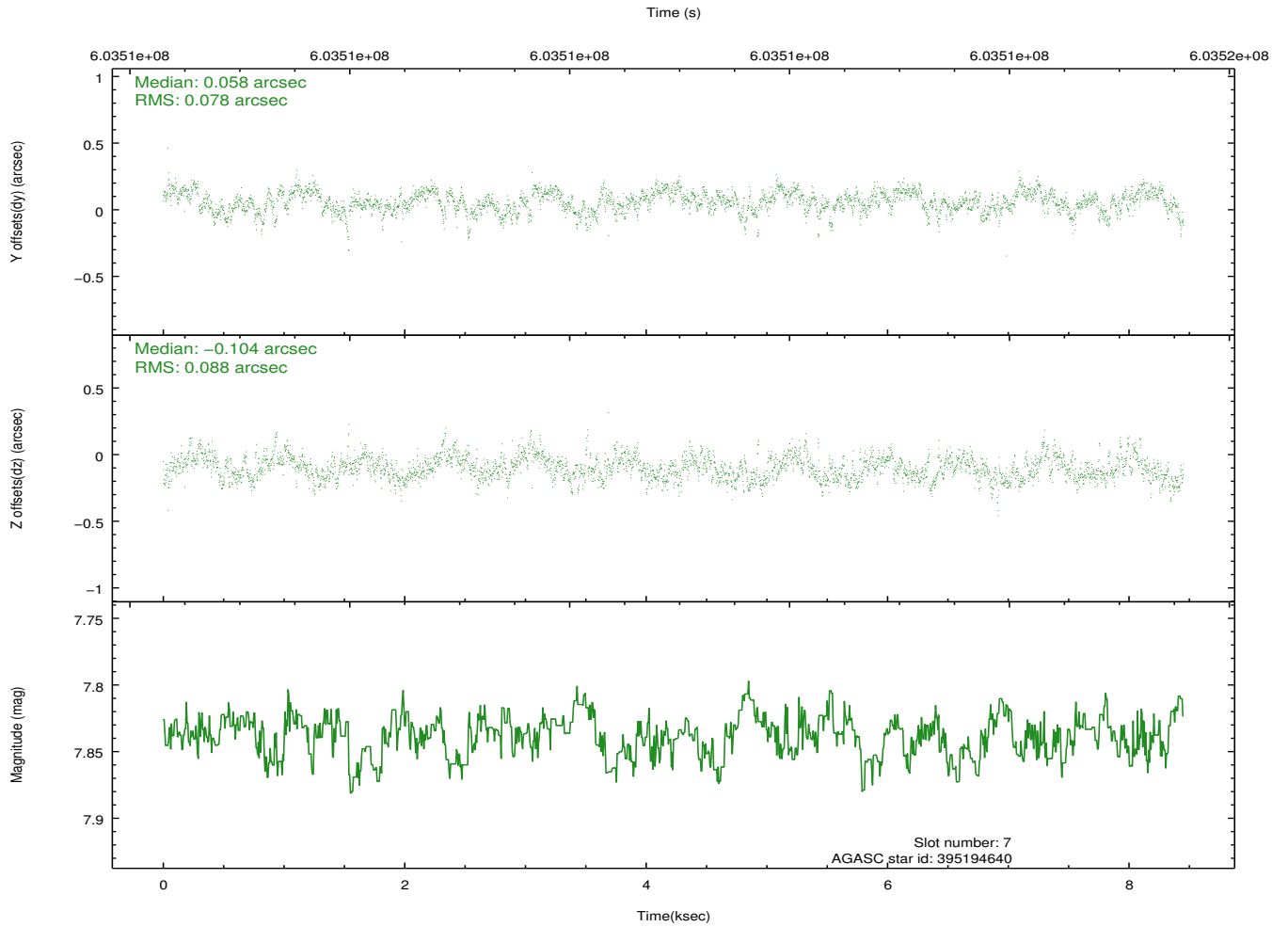
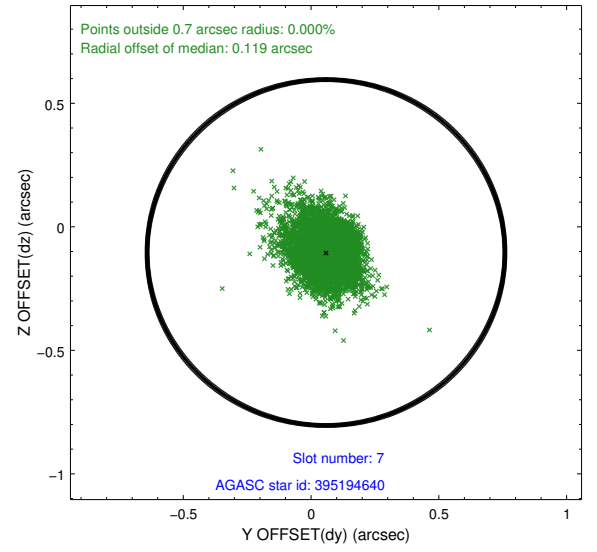
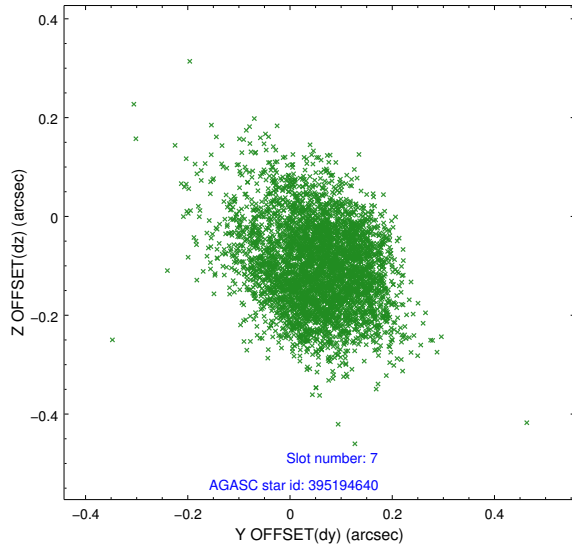
2.4.3 Slot 5



2.4.4 Slot 6

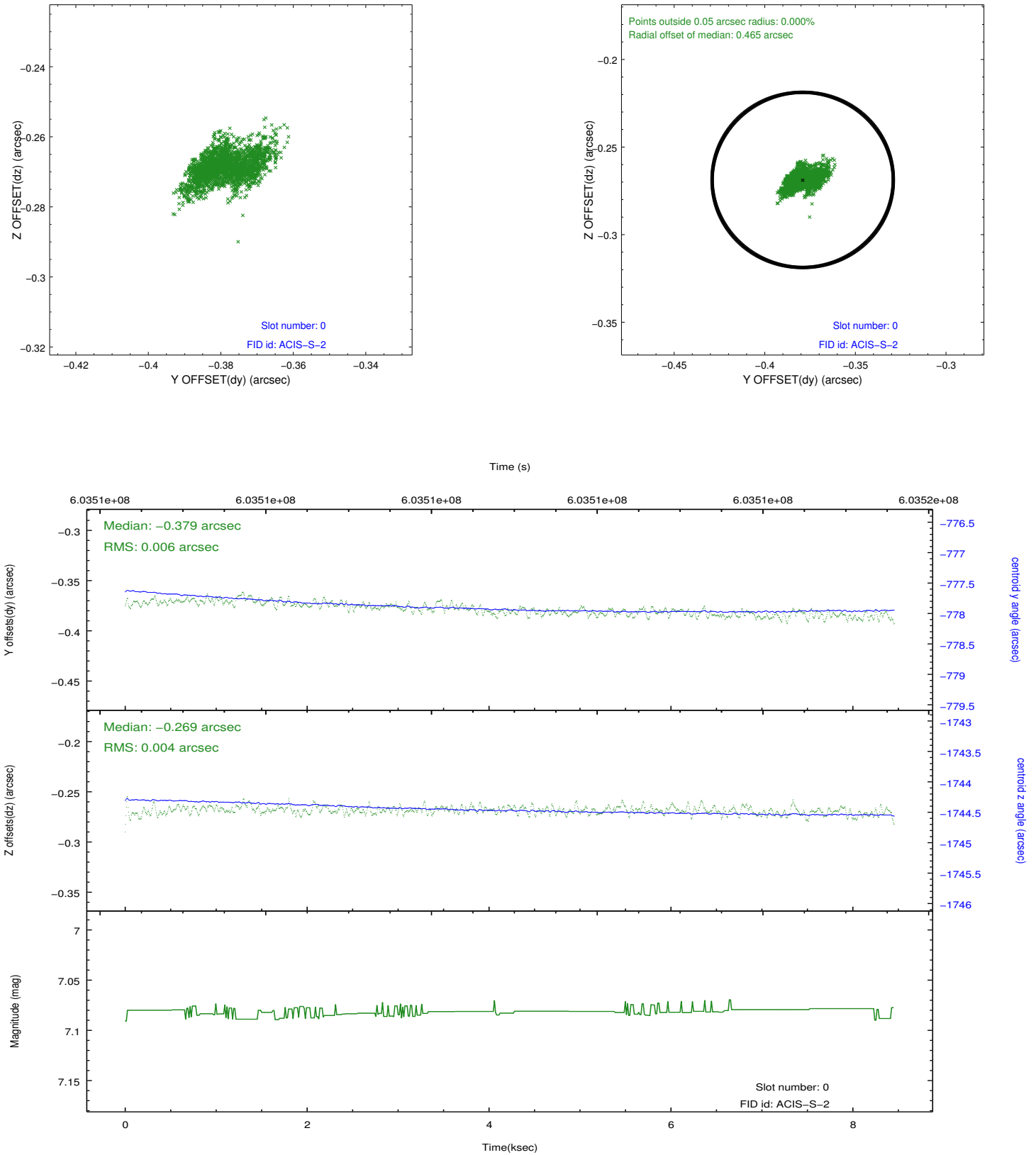


2.4.5 Slot 7

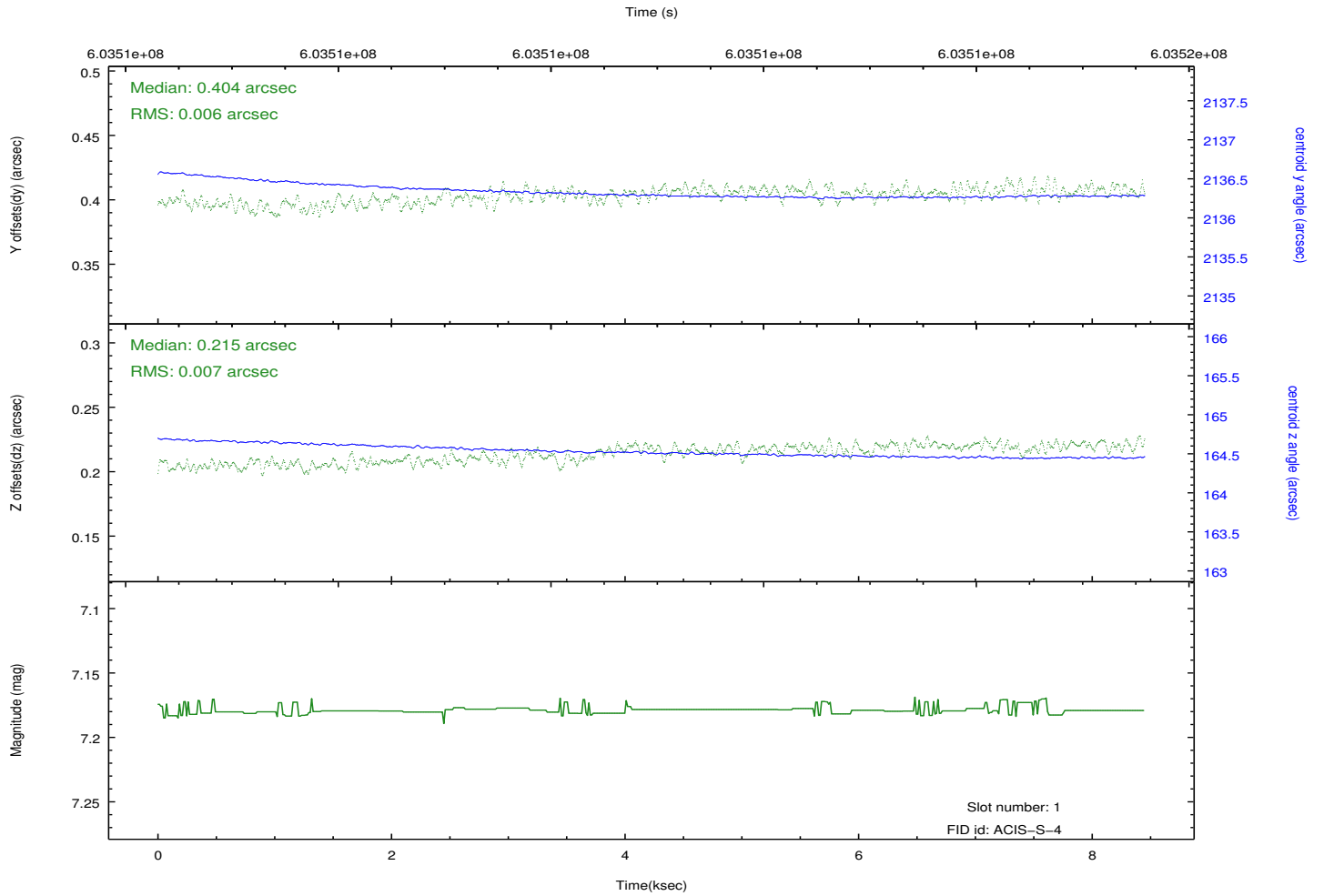
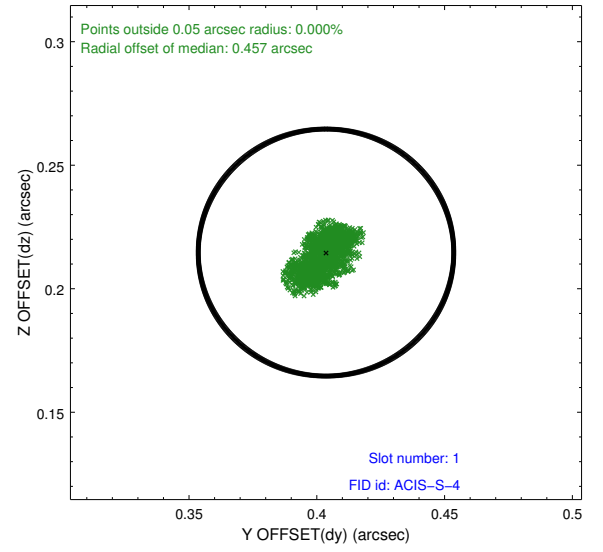
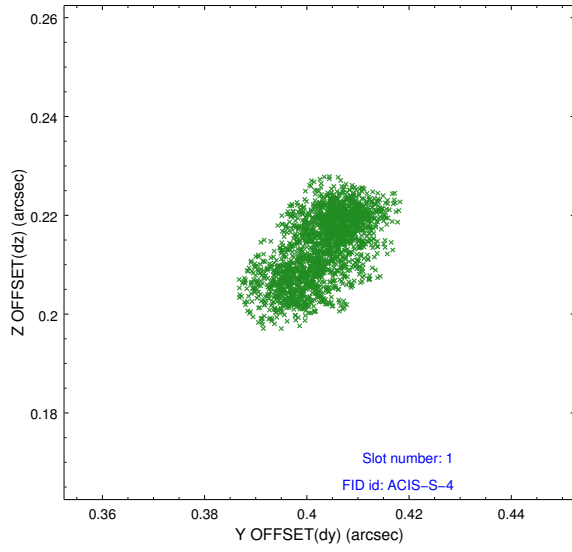


2.5 FID Slots

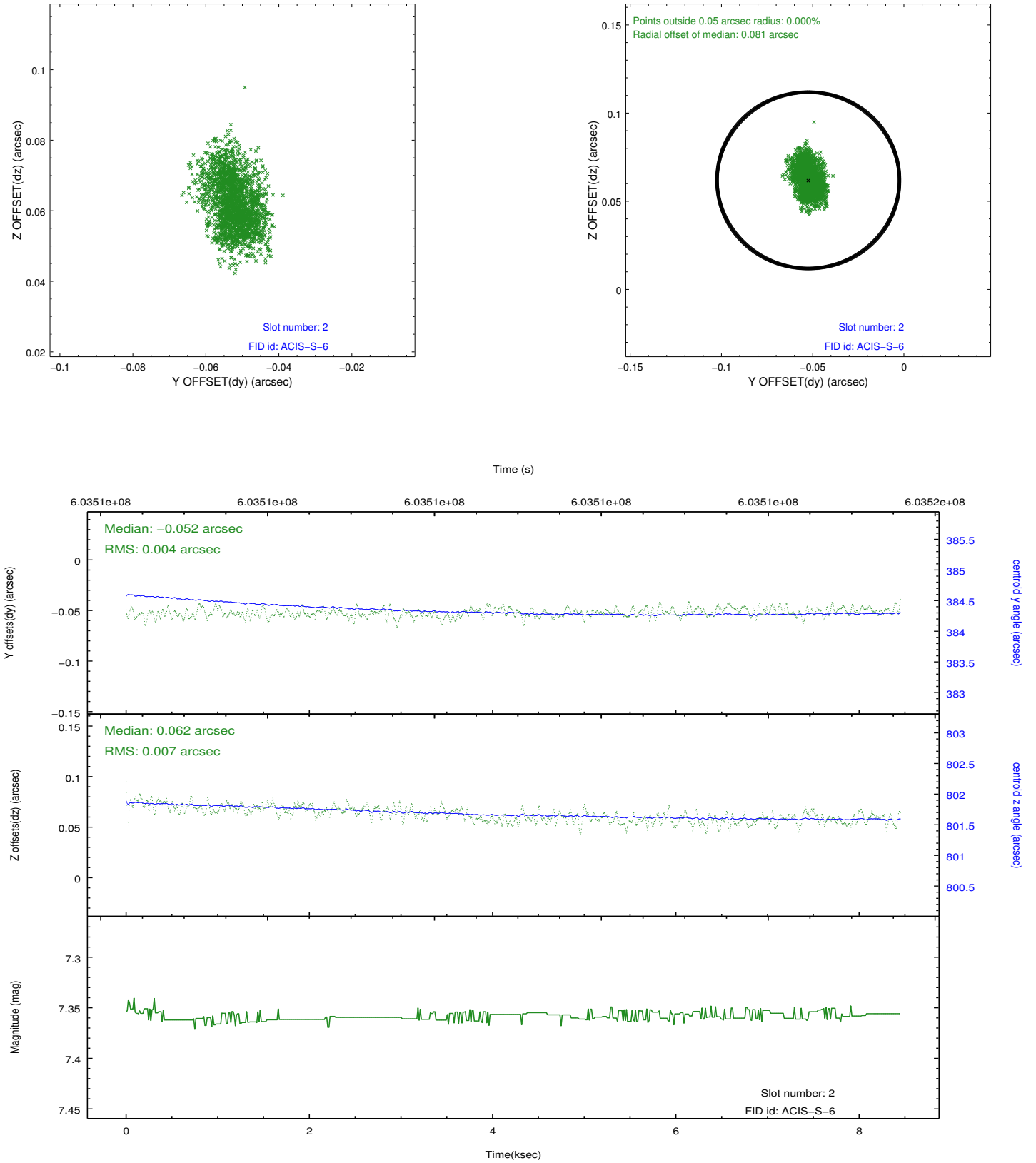
2.5.1 Slot 0



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)	2017.02.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0693000621796

A.2 Comments