

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6921 - L2 Version 2
Chandra X-Ray Center

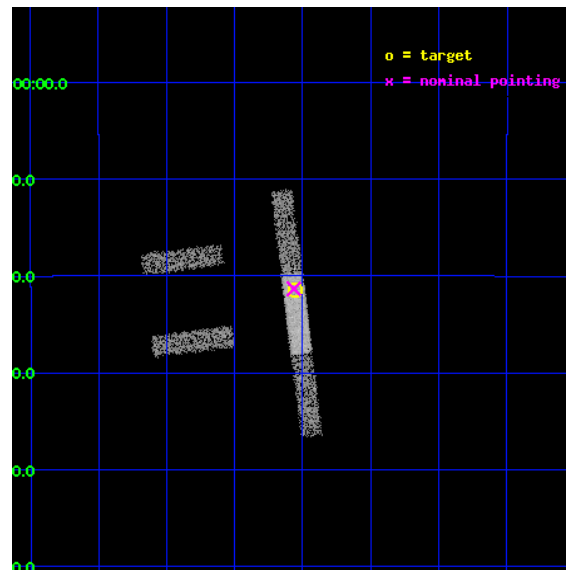
L2 Processing Date : Apr 12 2012

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

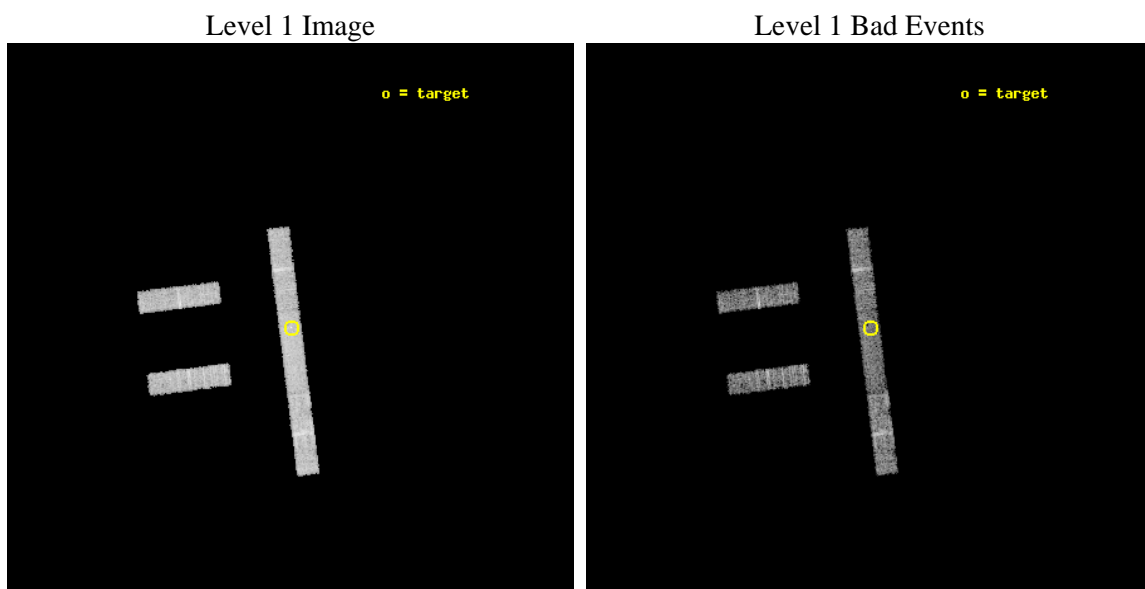
seq_num	701336	Sequence number
obs_id	6921	Observation id
title	Studying the Spatial Structures of the Optical and X-ray Emission Regions of Quasars by Monitoring Microlensing Events	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HE 1104-1805	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.639167	Observer's specified target RA [deg]
dec_targ	-18.356722	Observer's specified target Dec [deg]
ra_nom	166.64113678112	Nominal RA [deg]
dec_nom	-18.355656254368	Nominal Dec [deg]
roll_nom	82.875887584106	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5117.0	Sum of GTIs [s]
livetime	4915.2770306617	Livetime [s]
ontime2	5117.0	Sum of GTIs [s]
ontime3	5117.0	Sum of GTIs [s]
ontime6	5117.0	Sum of GTIs [s]
ontime7	5117.0	Sum of GTIs [s]
ontime8	5117.0	Sum of GTIs [s]
l2events	13234	Number of level 2 events



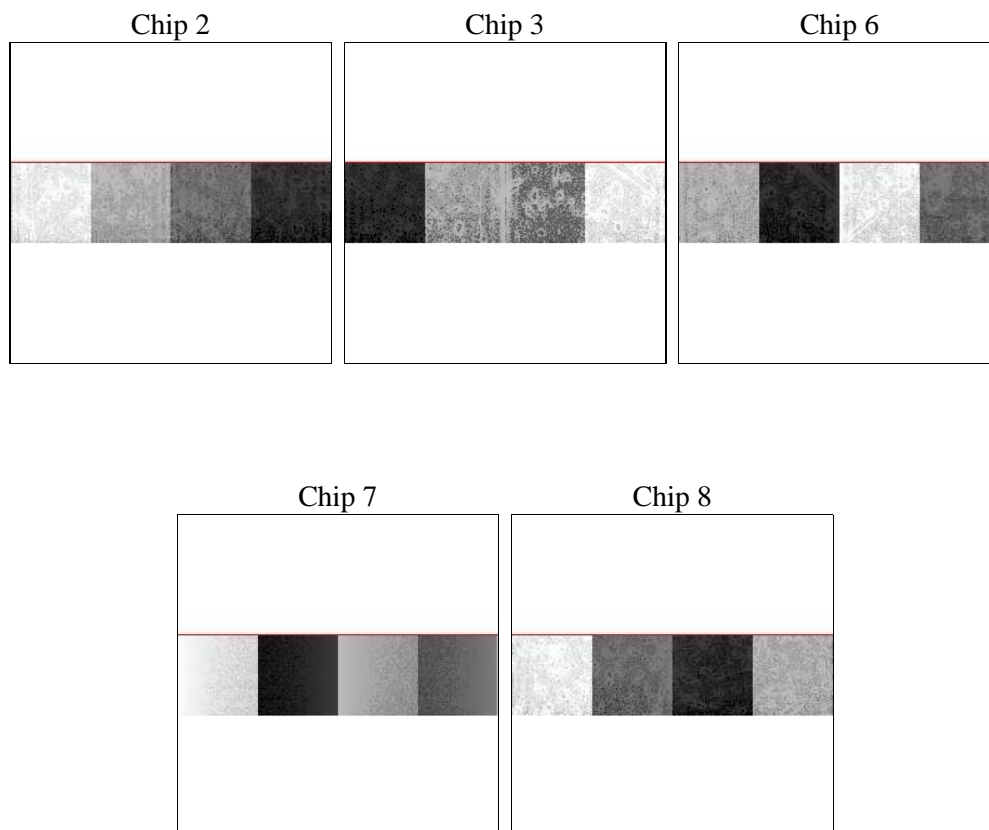
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	5117.0	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5117.0	Sum of GTIs [s]
date	2012-04-13T00:24:39	Date and time of file creation	ontime3	5117.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5117.0	Sum of GTIs [s]
			ontime7	5117.0	Sum of GTIs [s]
			ontime8	5117.0	Sum of GTIs [s]
			l1events	95995	Number of level 1 events

2.1.4 Events

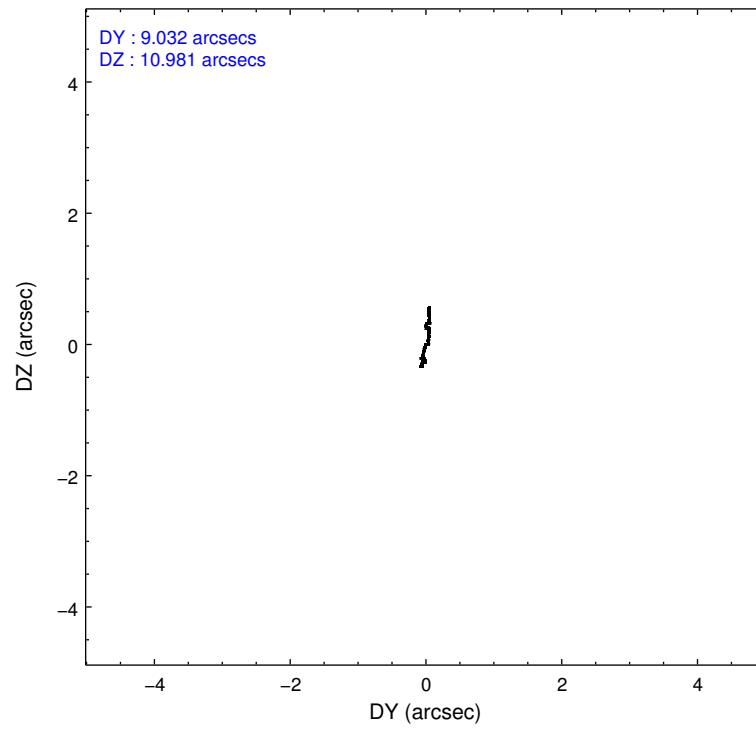
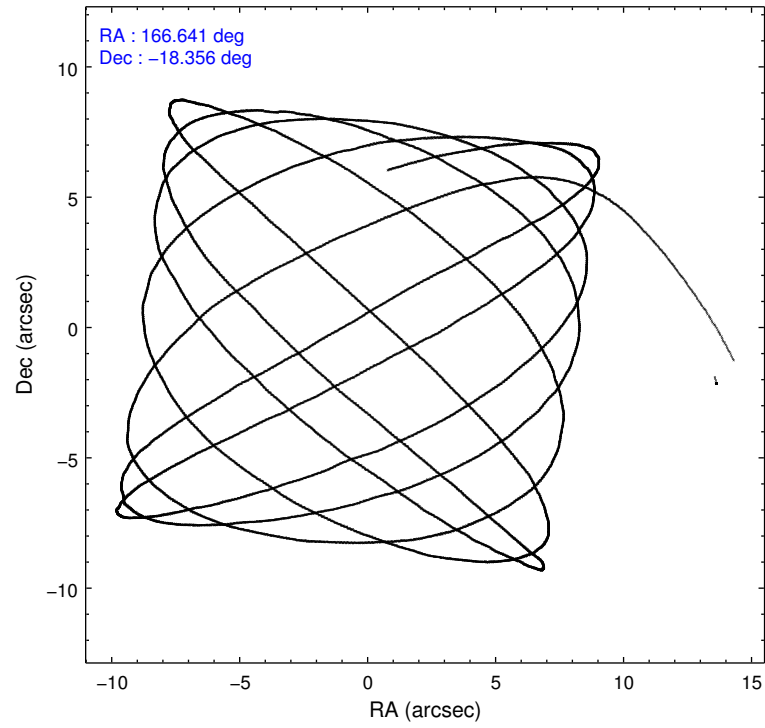
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	16888	17599	17918	21223	22367
rejected events	15324	15952	16122	13510	18653
rejected %	90%	90%	89%	63%	83%

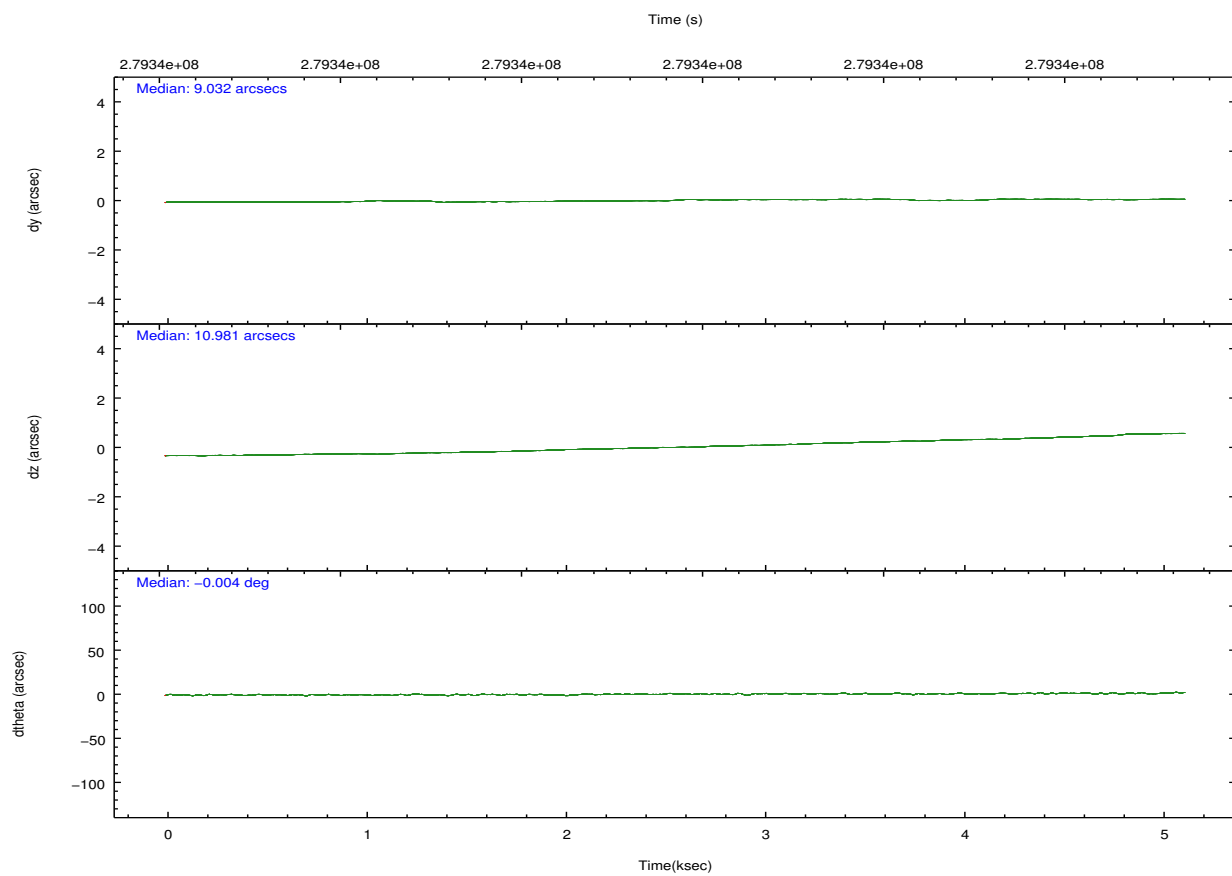
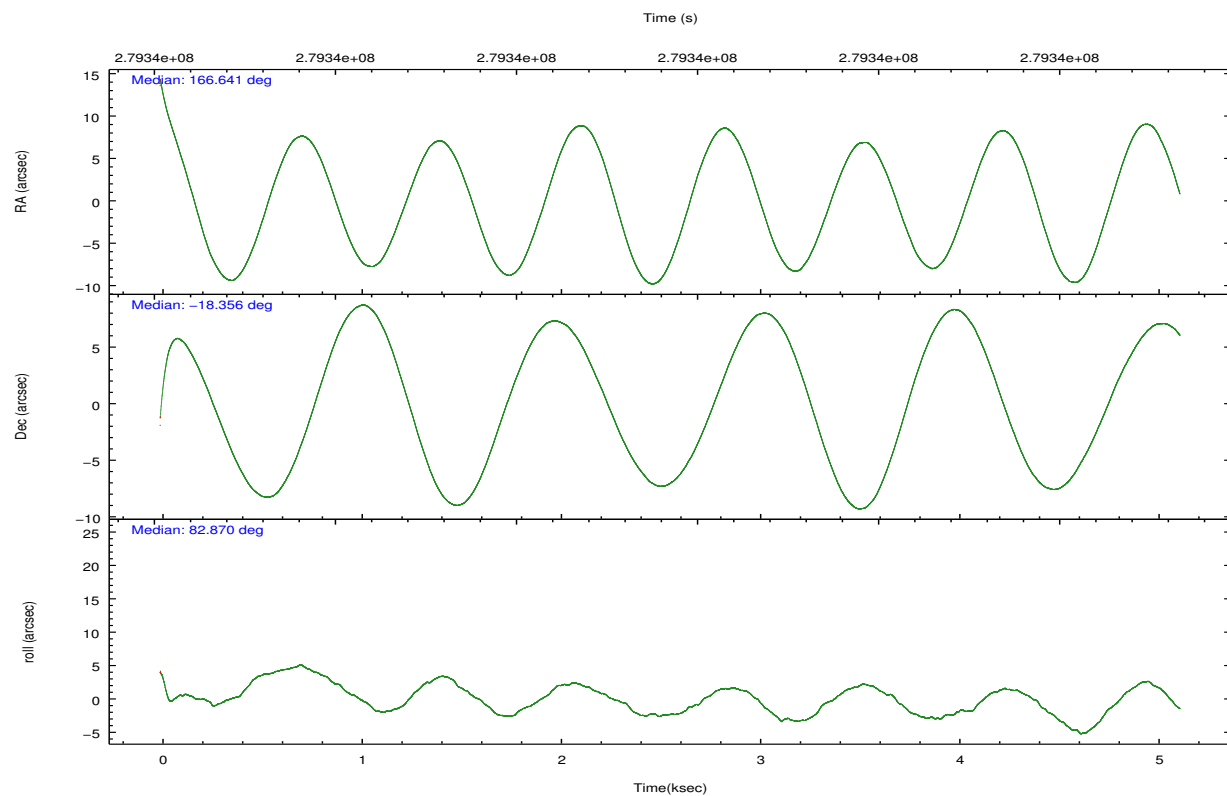
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	774	782	739	897	1364
	4%	4%	4%	4%	6%
grade 1 events	10	10	10	21	10
	0%	0%	0%	0%	0%
grade 2 events	300	370	394	1910	903
	1%	2%	2%	8%	4%
grade 3 events	242	253	278	910	520
	1%	1%	1%	4%	2%
grade 4 events	285	242	298	908	478
	1%	1%	1%	4%	2%
grade 5 events	542	669	693	1963	901
	3%	3%	3%	9%	4%
grade 6 events	292	341	414	4577	1126
	1%	1%	2%	21%	5%
grade 7 events	14443	14932	15092	10037	17065
	85%	84%	84%	47%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	166.652584	166.6411367811171	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-18.380641	-18.35565625436777	Subarray start row	385	385
[deg] Pointing Roll	82.722877	82.87588758410649	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	279340393.184000	279339160.22238			
Observation start date	2006-11-08T02:32:08	2006-11-08T02:12:40			
[s] Observation end time (MET)	279345393.184000	279346814.92274			
Observation end date	2006-11-08T03:55:28	2006-11-08T04:20:14			
Read mode	TIMED	TIMED			

2.3 Aspect



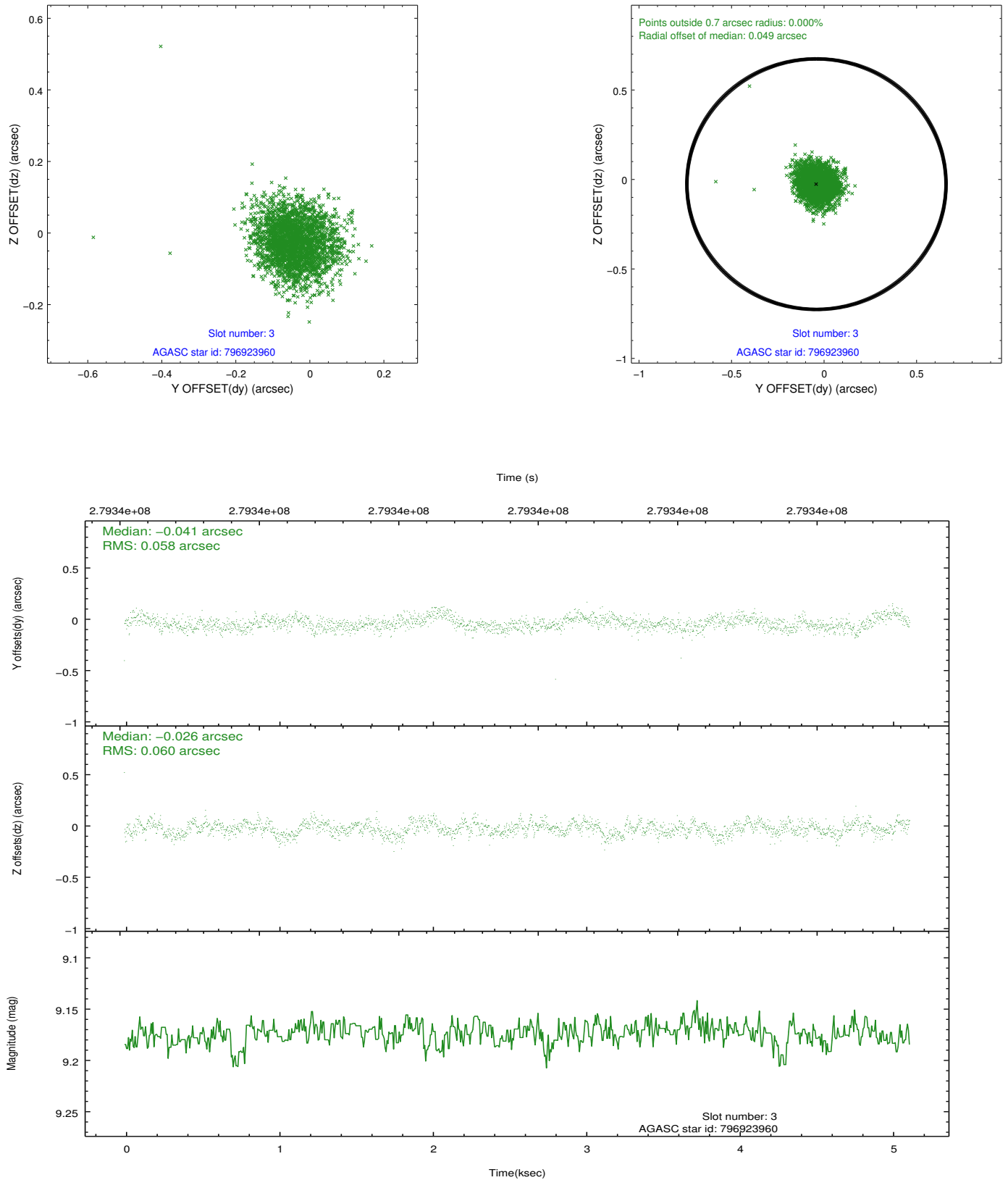


Slot Statistics

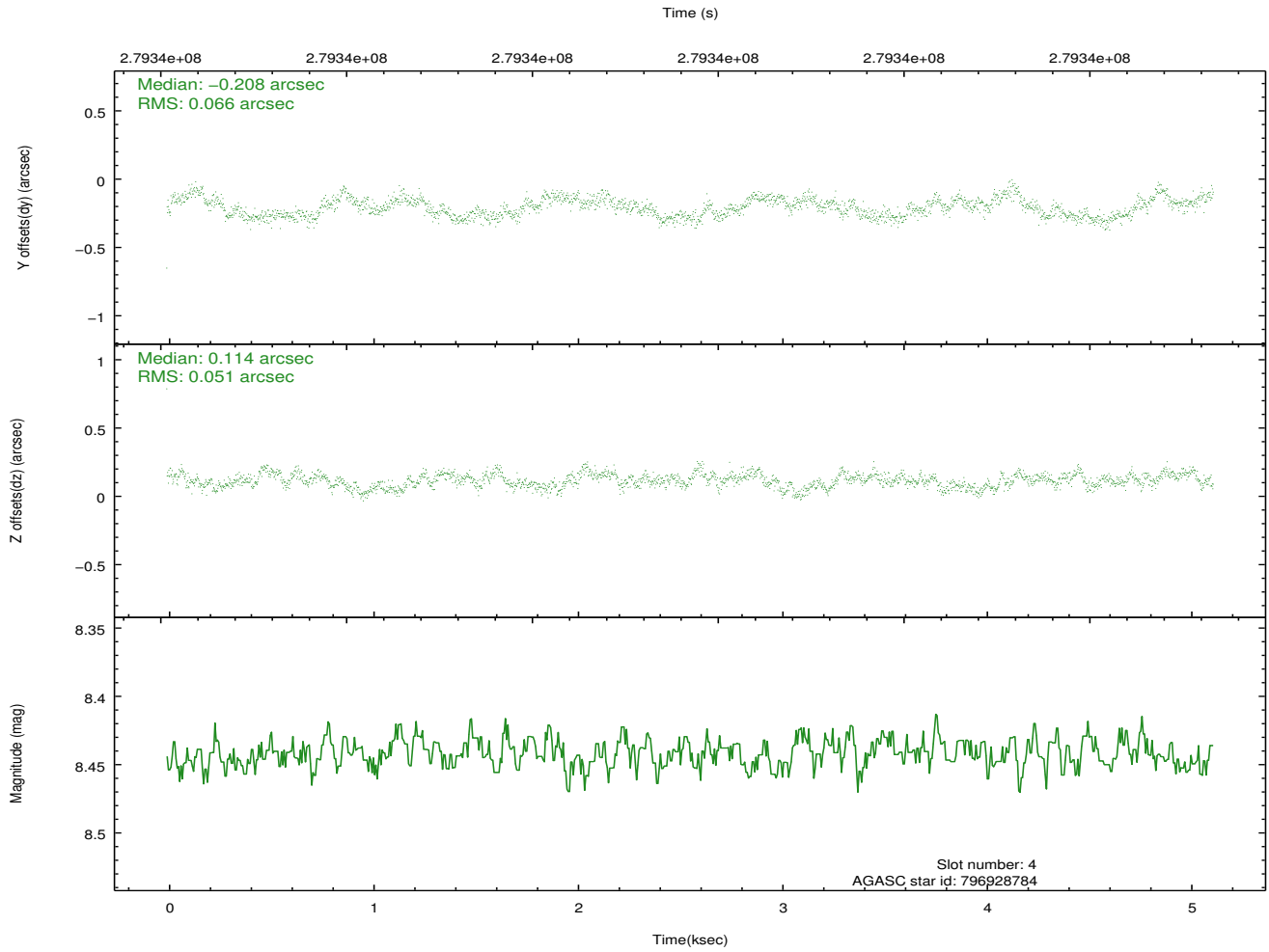
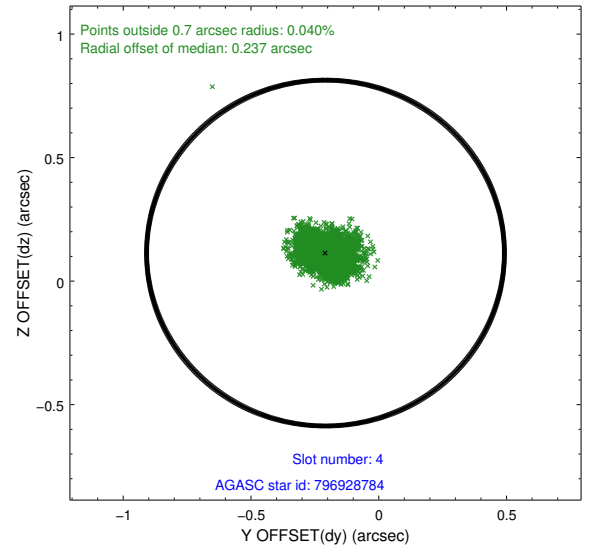
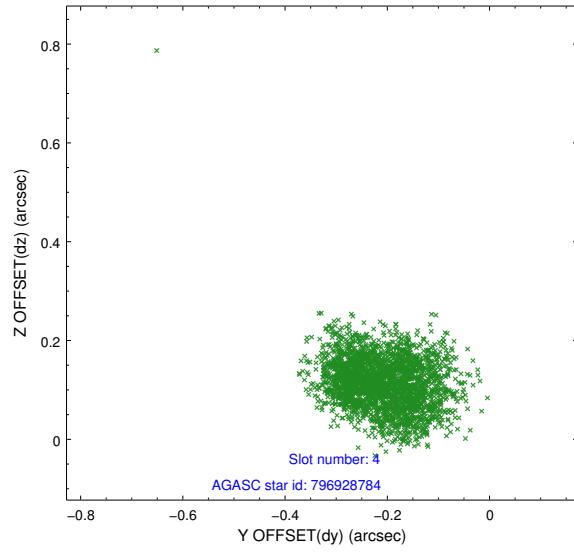
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1249	-0.093	-0.070	0.007	0.013	0.000000	0.000000	-761.93	-1732.31
1	FID	ACIS-S-4	7.22	1249	0.091	0.043	0.007	0.012	0.000000	0.000000	2150.99	175.06
2	FID	ACIS-S-6	7.35	1249	-0.027	0.034	0.007	0.013	0.000000	0.000000	401.64	813.80
3	GUIDE	796923960	9.17	2496	-0.041	-0.026	0.087	0.141	167.114946	-18.113690	1152.02	-1447.26
4	GUIDE	796928784	8.44	2497	-0.208	0.114	0.088	0.137	166.853792	-17.800971	2157.46	-419.81
5	GUIDE	796928880	9.90	2491	0.247	0.041	0.157	0.246	166.621408	-18.801010	-1514.71	-86.34
6	GUIDE	796930880	9.91	2494	-0.078	-0.342	0.202	0.339	166.119482	-18.145311	605.87	1916.04
7	GUIDE	796928024	9.11	2490	0.113	0.208	0.113	0.173	167.293410	-18.855839	-1423.51	-2381.61

2.4 Star Slots

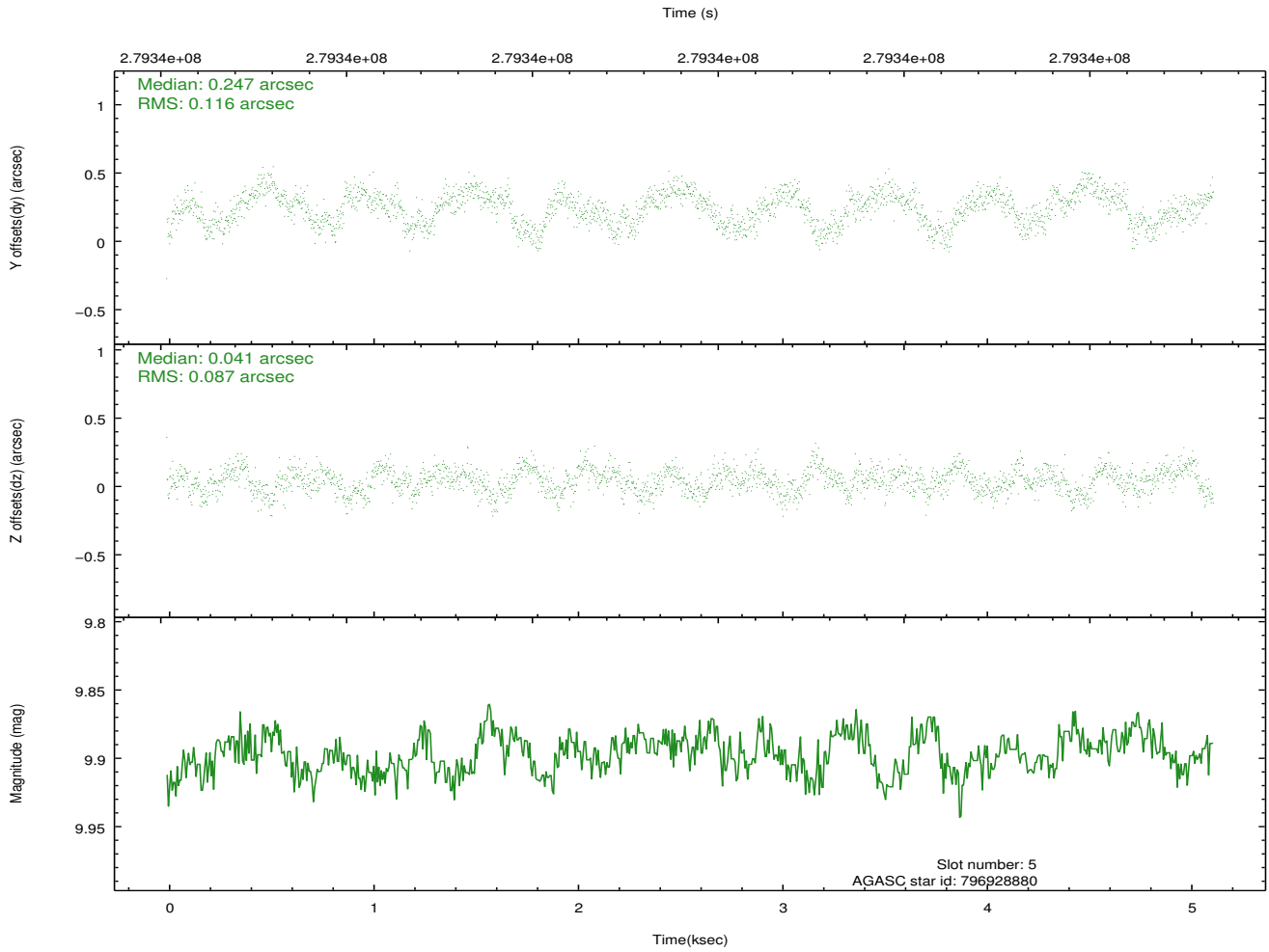
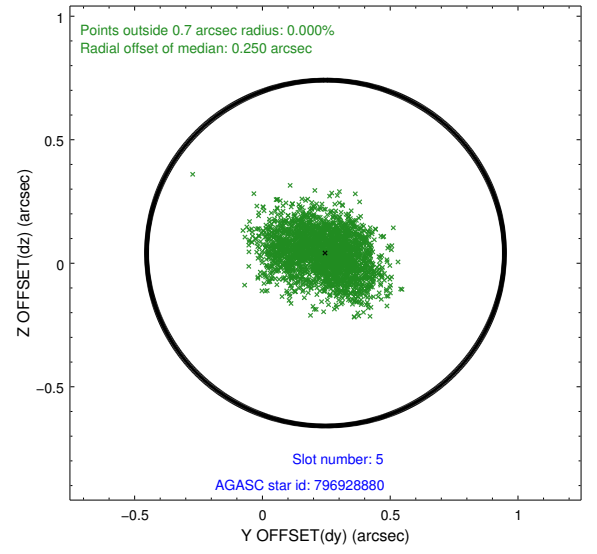
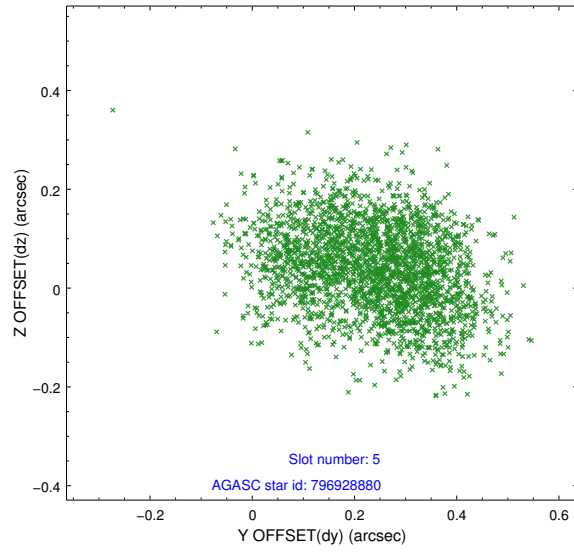
2.4.1 Slot 3



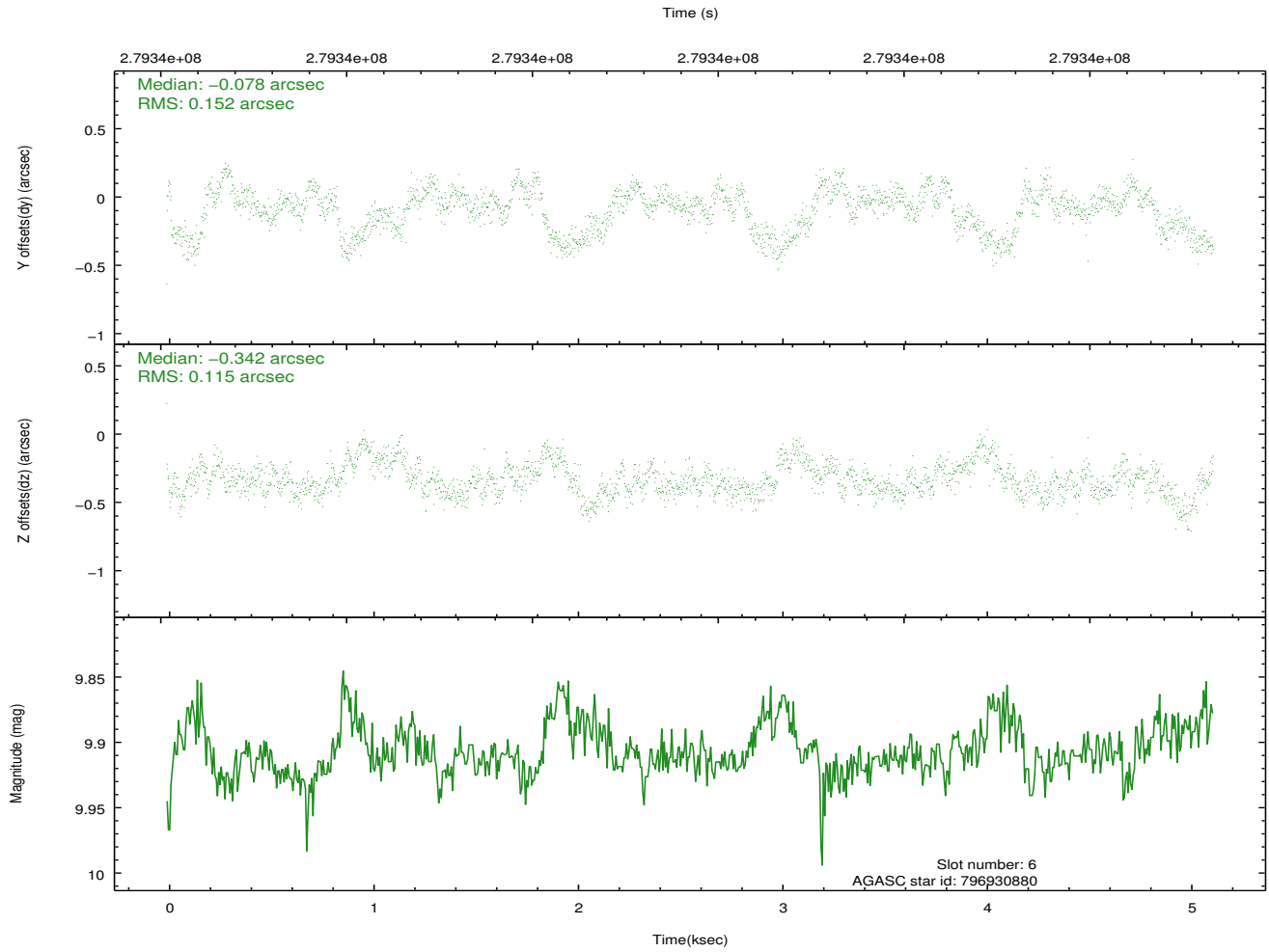
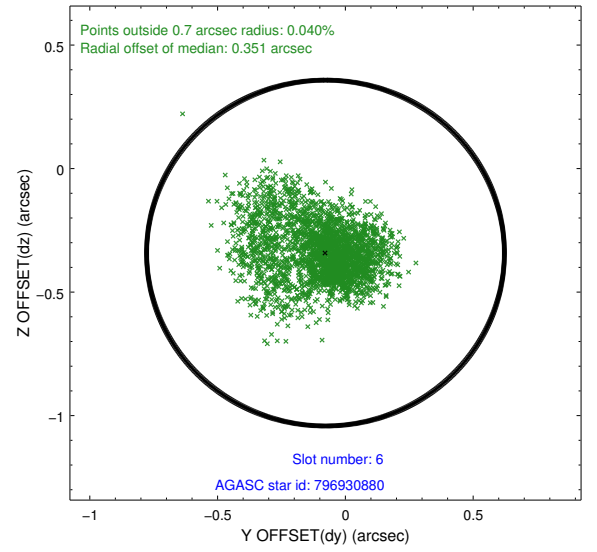
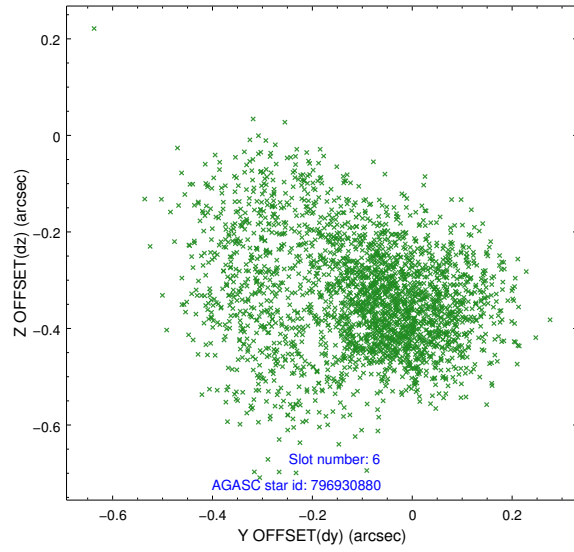
2.4.2 Slot 4



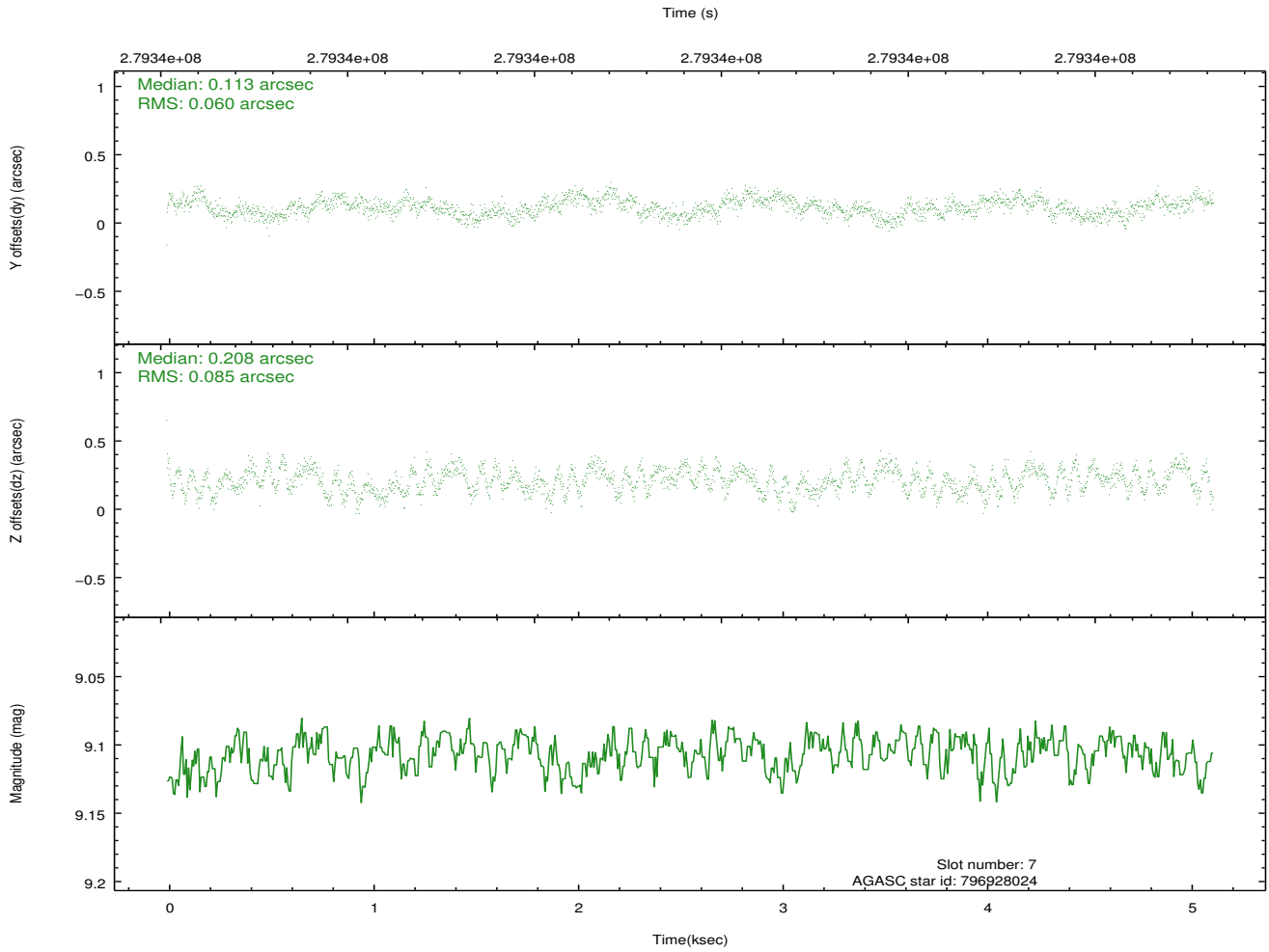
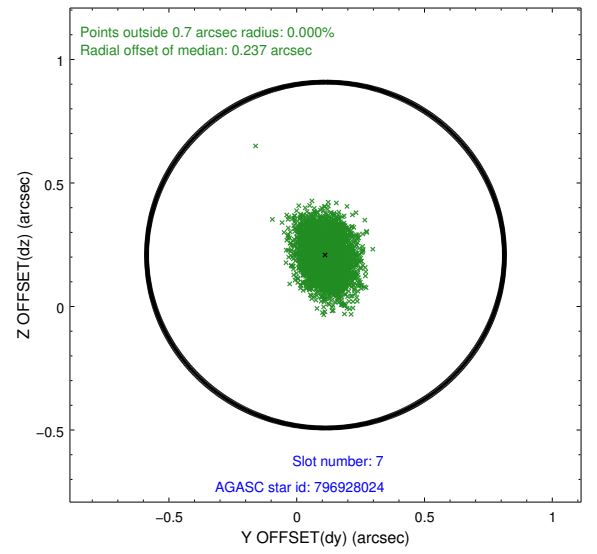
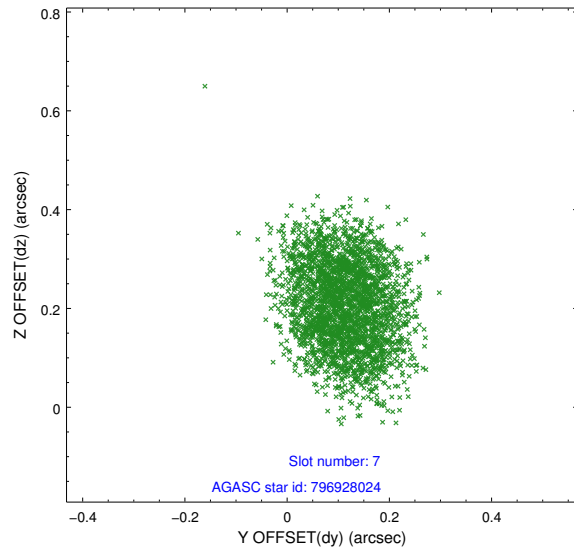
2.4.3 Slot 5



2.4.4 Slot 6

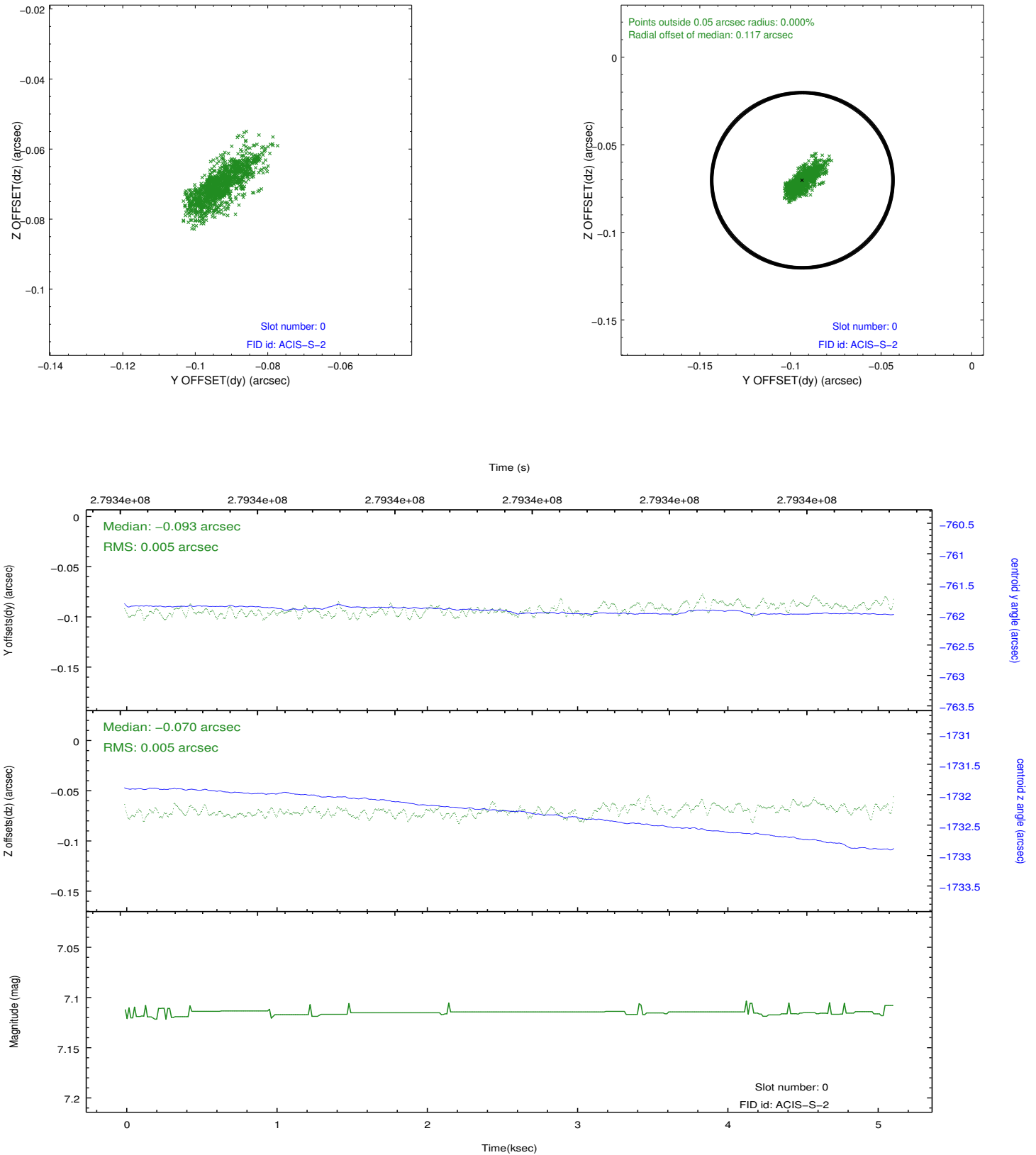


2.4.5 Slot 7

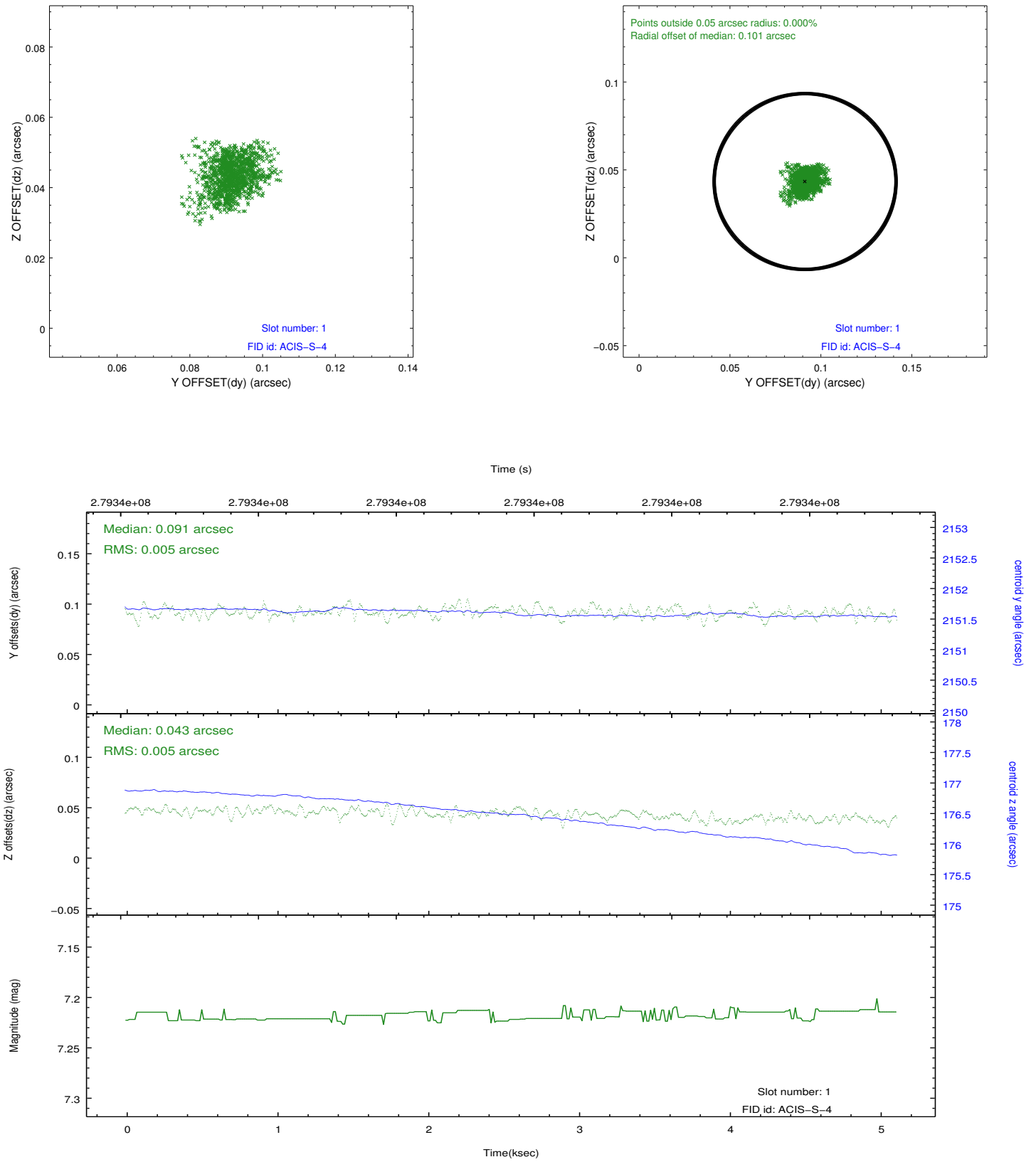


2.5 FID Slots

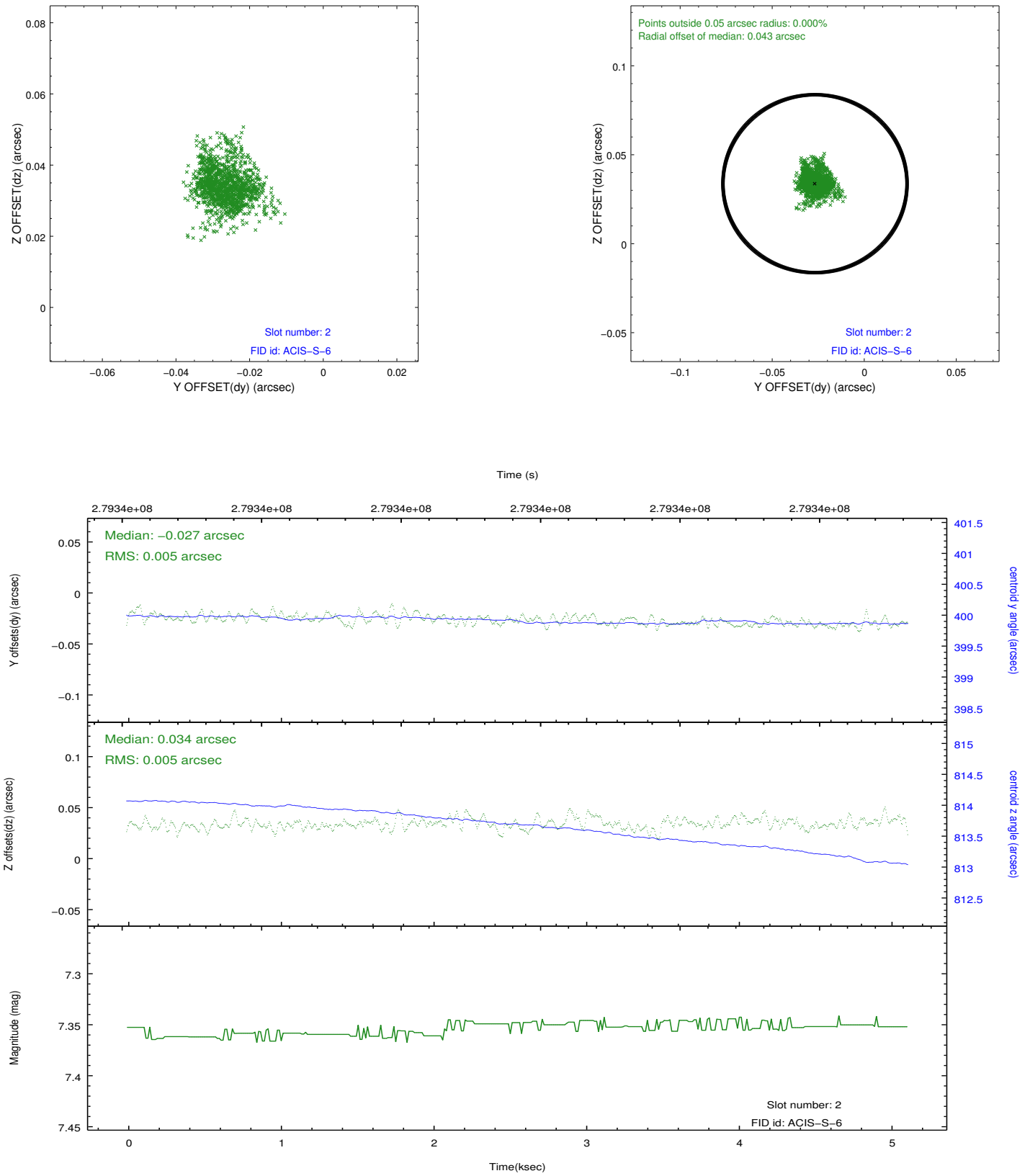
2.5.1 Slot 0



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)	2012.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.117

A.2 Comments