

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6918 - L2 Version 3
Chandra X-Ray Center

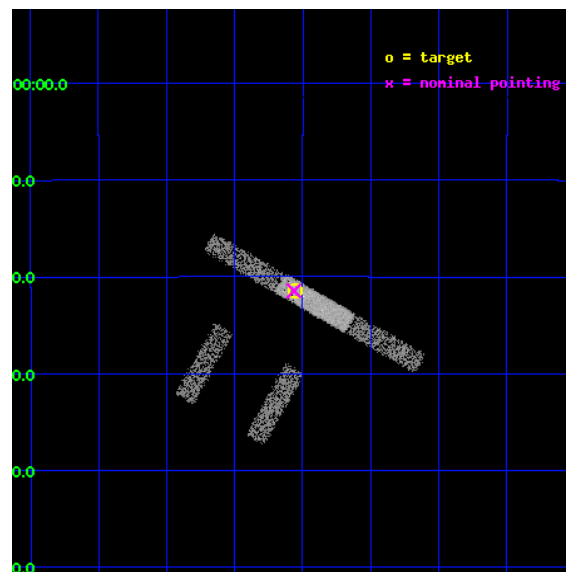
L2 Processing Date : Mar 26 2012

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1 Front

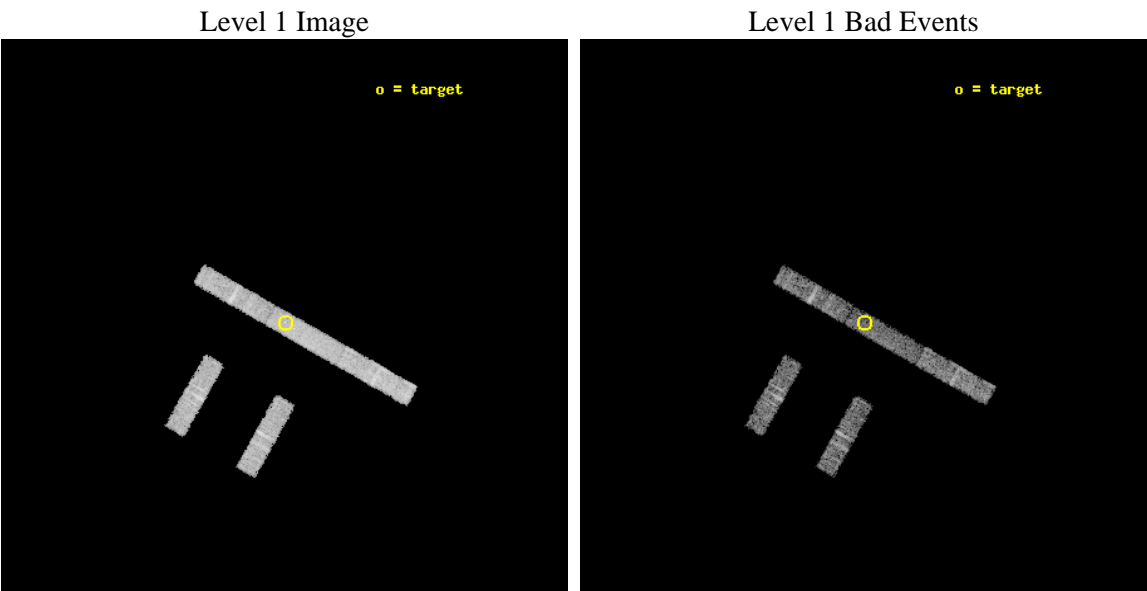
seq_num	701333	Sequence number
obs_id	6918	Observation id
title	Studying the Spatial Structures of the Optical and X-ray Emission Regions of Quasars by Monitoring Microlensing Events	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HE 1104-1805	Source name
dtcycle	0	
cycle	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	166.64117824472	Nominal RA [deg]
dec_nom	-18.357543517192	Nominal Dec [deg]
roll_nom	29.610519129159	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5162.0	Sum of GTIs [s]
livetime	4958.5030354261	Livetime [s]
ontime2	5162.0	Sum of GTIs [s]
ontime3	5162.0	Sum of GTIs [s]
ontime6	5162.0	Sum of GTIs [s]
ontime7	5162.0	Sum of GTIs [s]
ontime8	5162.0	Sum of GTIs [s]
l2events	11803	Number of level 2 events



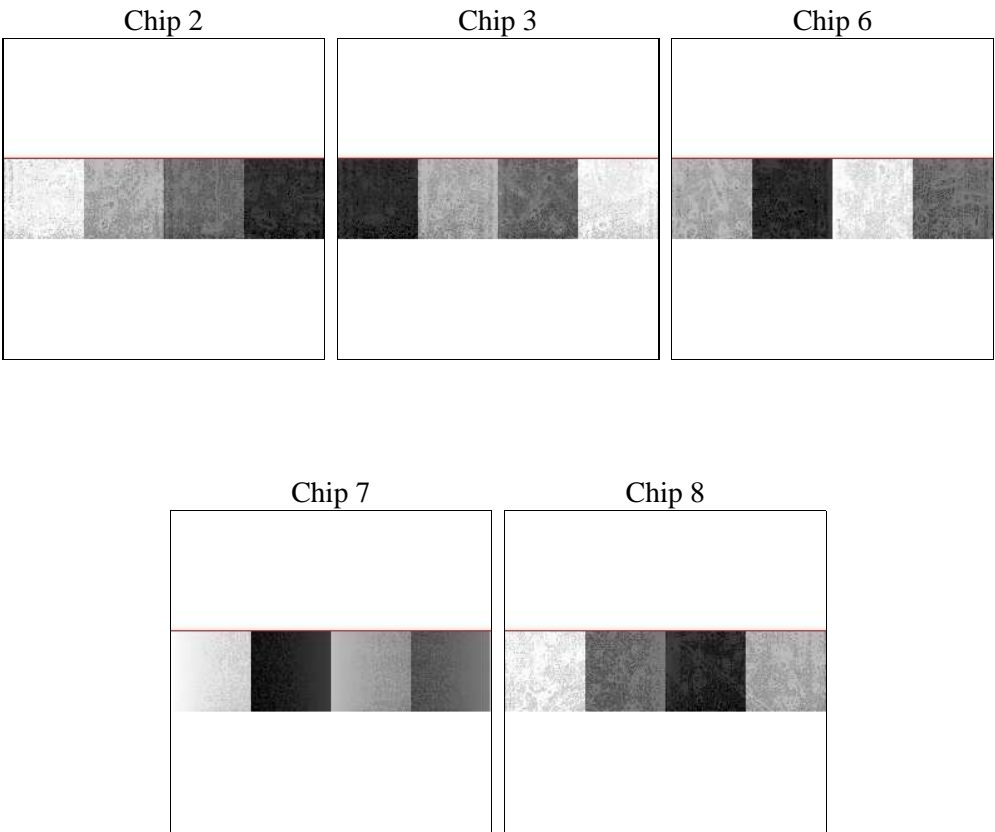
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



Chip 7



Chip 8



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5162.0	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	5162.0	Sum of GTIs [s]
date	2012-03-26T13:22:00	Date and time of file creation	ontime3	5162.0	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5162.0	Sum of GTIs [s]
			ontime7	5162.0	Sum of GTIs [s]
			ontime8	5162.0	Sum of GTIs [s]
			l1events	87817	Number of level 1 events

2.1.4 Events

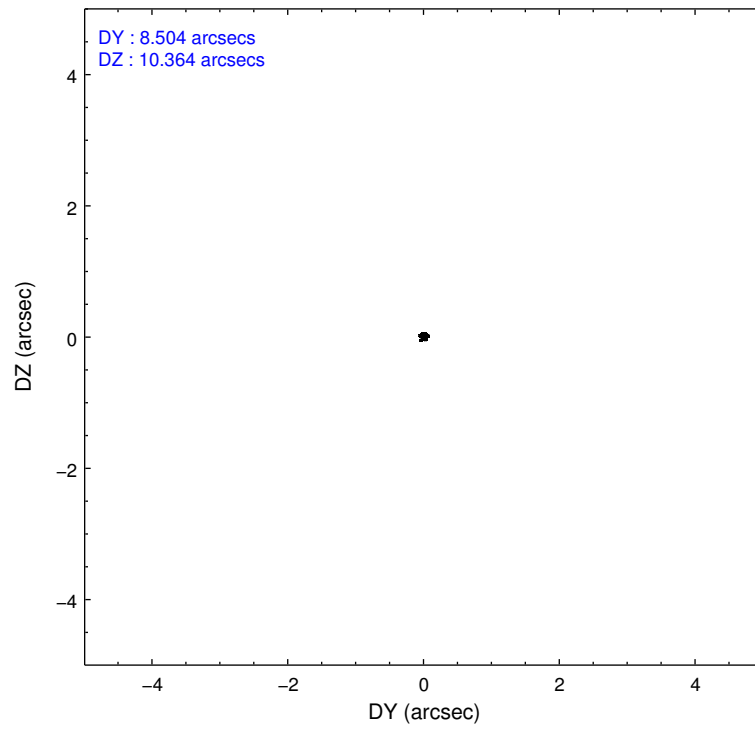
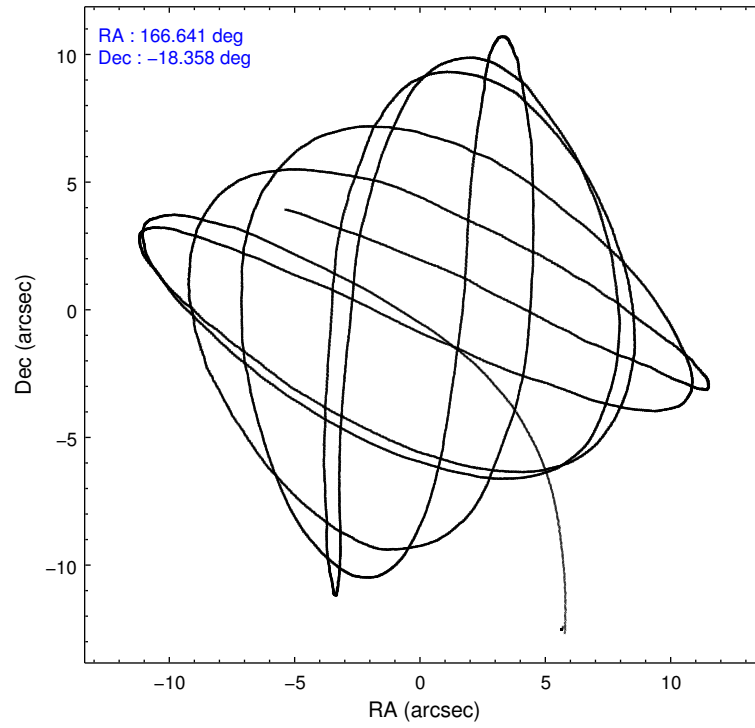
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	15396	14978	16580	19358	21505
rejected events	13980	13491	15007	12322	17788
rejected %	90%	90%	90%	63%	82%

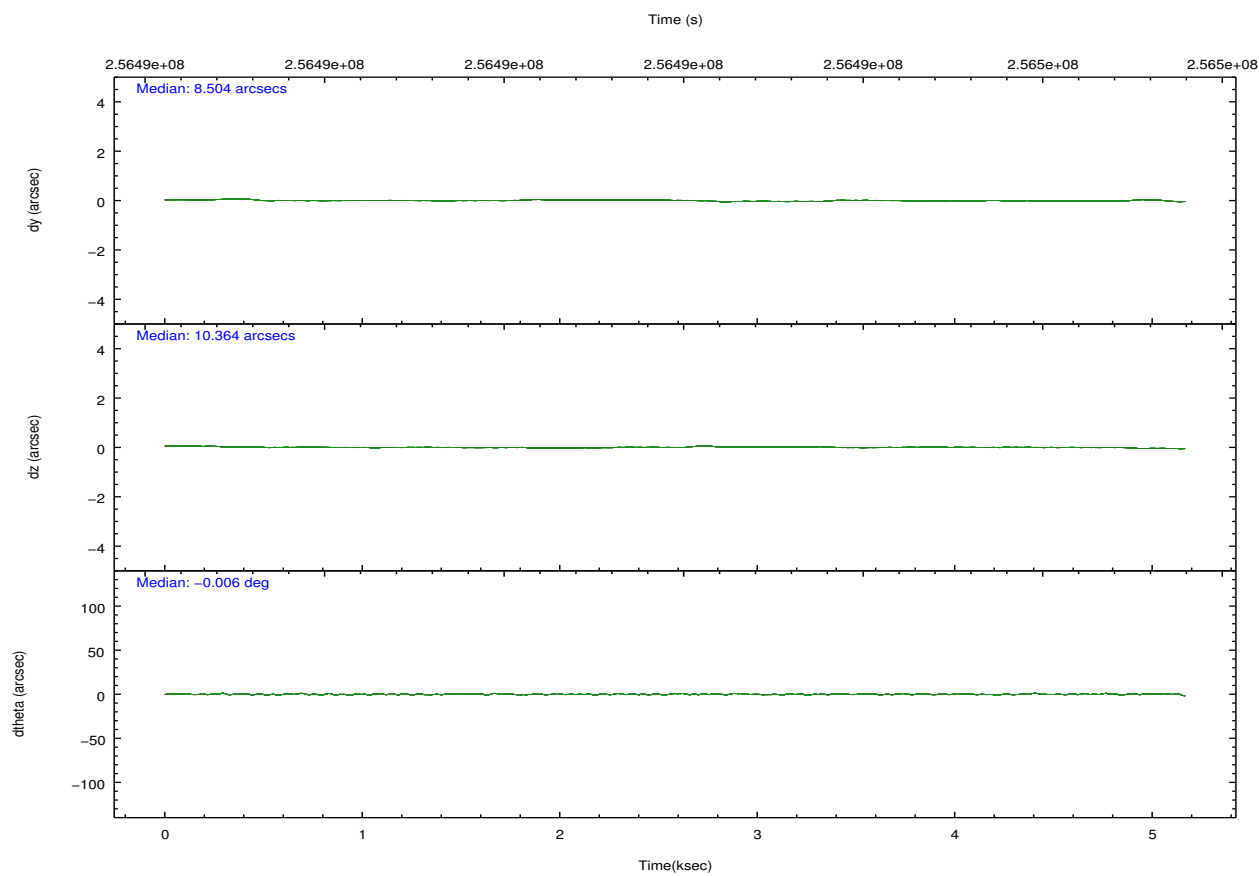
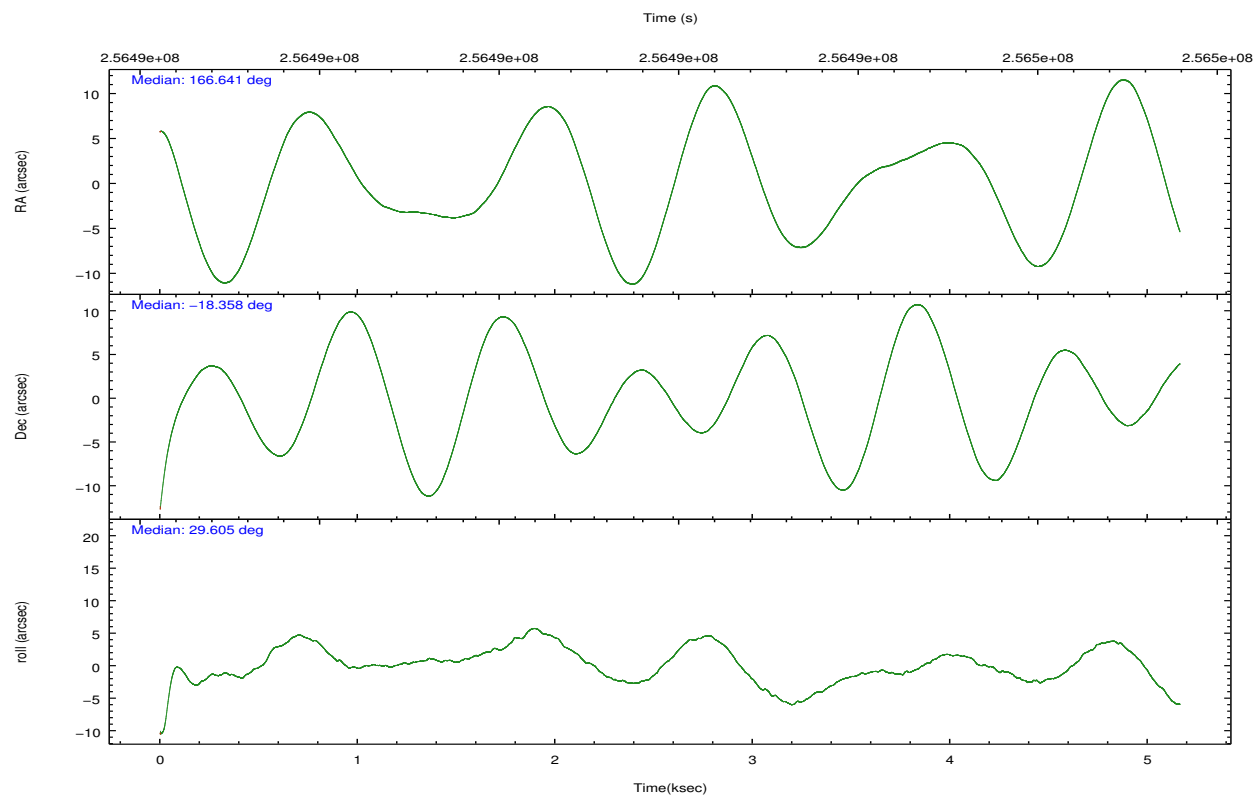
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	621	675	612	840	1138
	4%	4%	3%	4%	5%
grade 1 events	4	7	1	19	8
	0%	0%	0%	0%	0%
grade 2 events	339	295	339	1663	1016
	2%	1%	2%	8%	4%
grade 3 events	233	265	260	910	425
	1%	1%	1%	4%	1%
grade 4 events	240	240	262	842	413
	1%	1%	1%	4%	1%
grade 5 events	465	629	667	1804	857
	3%	4%	4%	9%	3%
grade 6 events	260	306	346	4091	1367
	1%	2%	2%	21%	6%
grade 7 events	13234	12561	14093	9189	16281
	85%	83%	85%	47%	75%

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	166.626997	166.6411782447174	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-18.381232	-18.35754351719181	Subarray start row	385	385
[deg] Pointing Roll	29.449449	29.61051912915887	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)	256490535.184000	256489301.04028			
Observation start date	2006-02-16T15:21:10	2006-02-16T15:01:41			
[s] Observation end time (MET)	256495535.184000	256496370.4656			
Observation end date	2006-02-16T16:44:30	2006-02-16T16:59:30			
Read mode	TIMED	TIMED			

2.3 Aspect



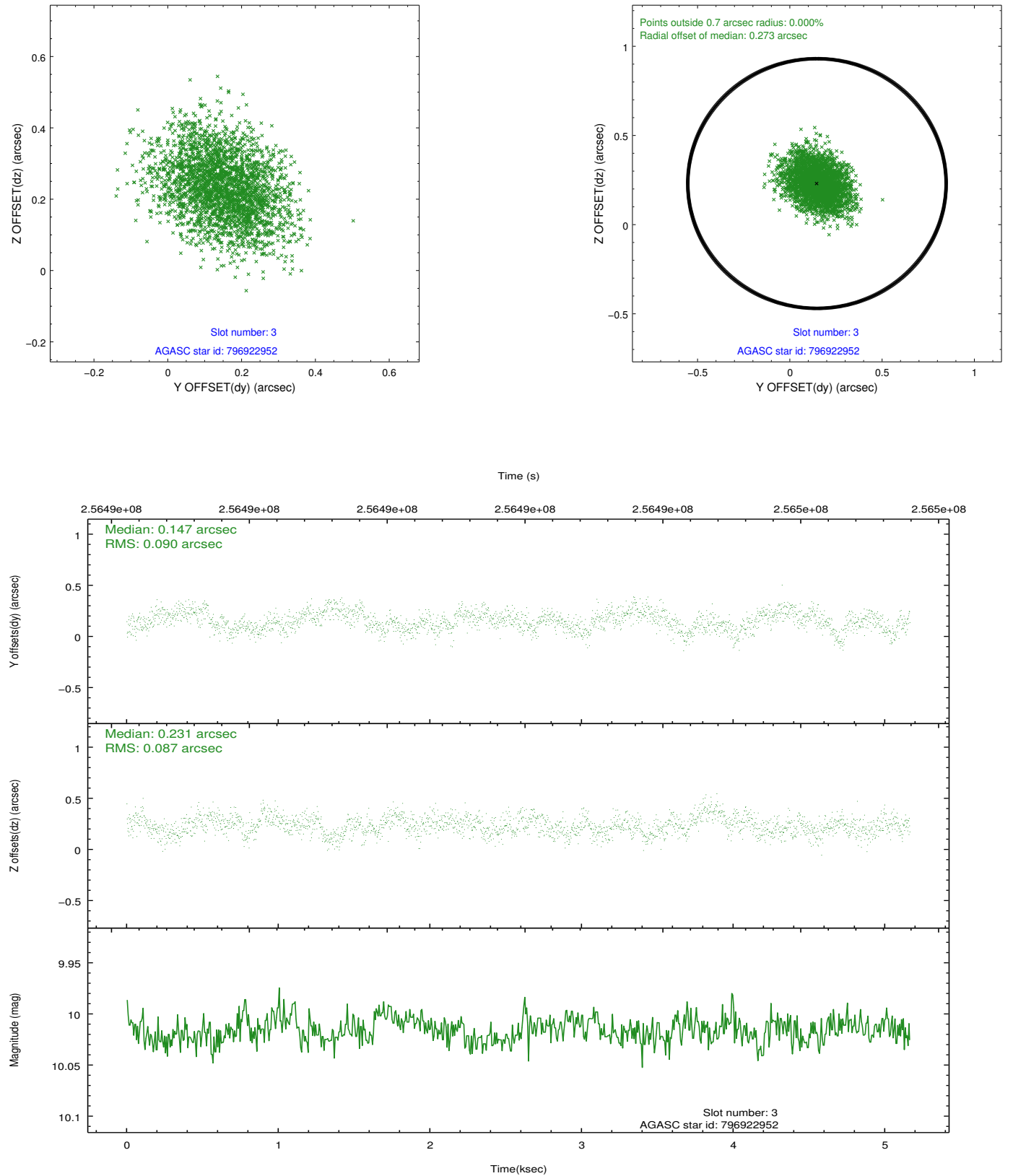


Slot Statistics

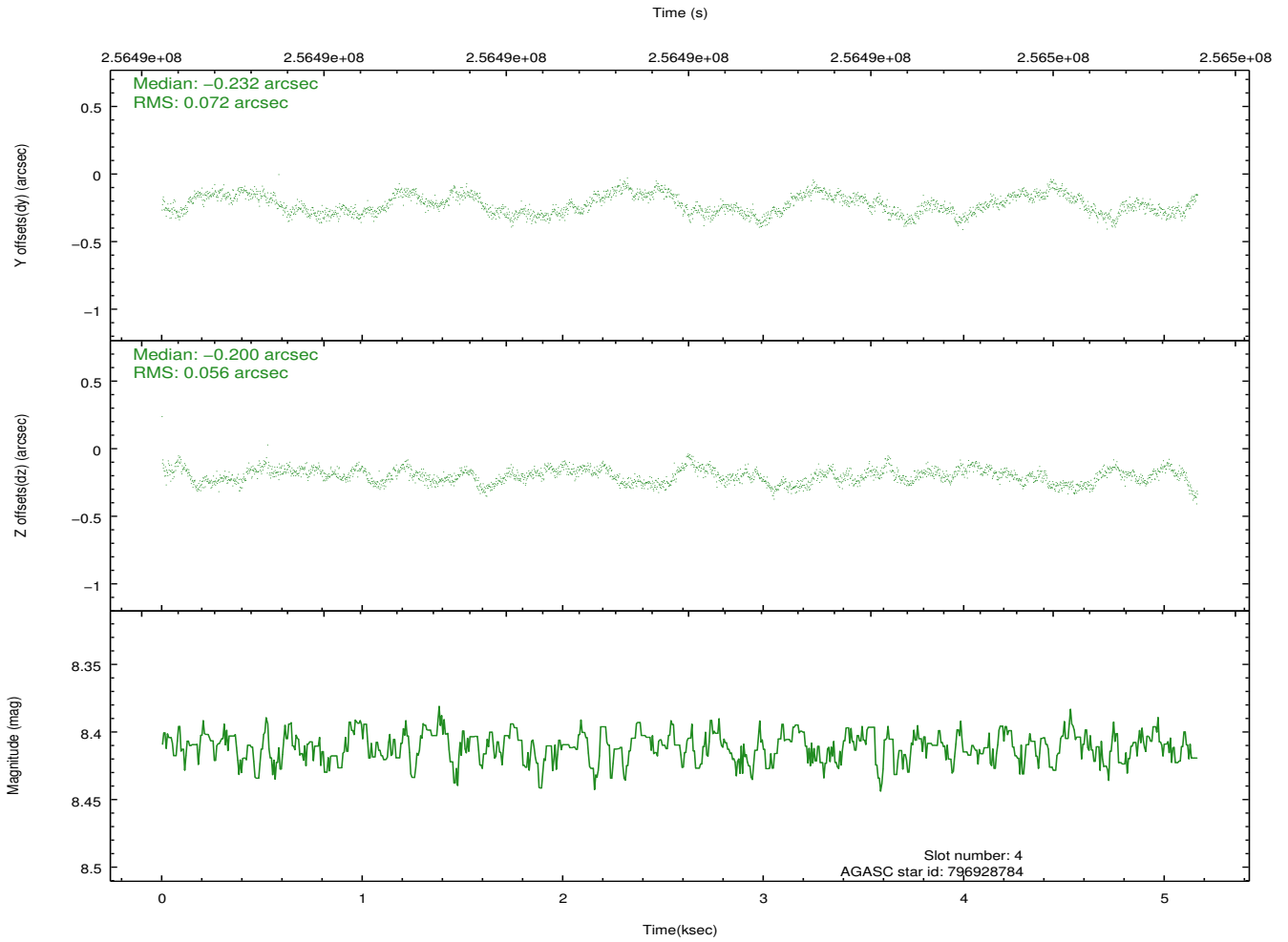
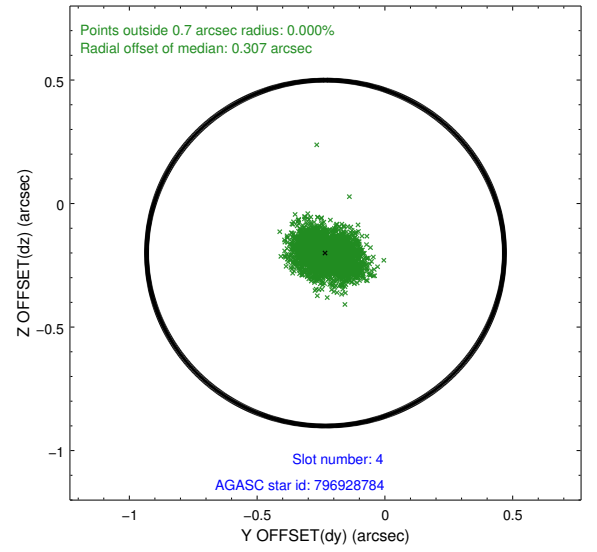
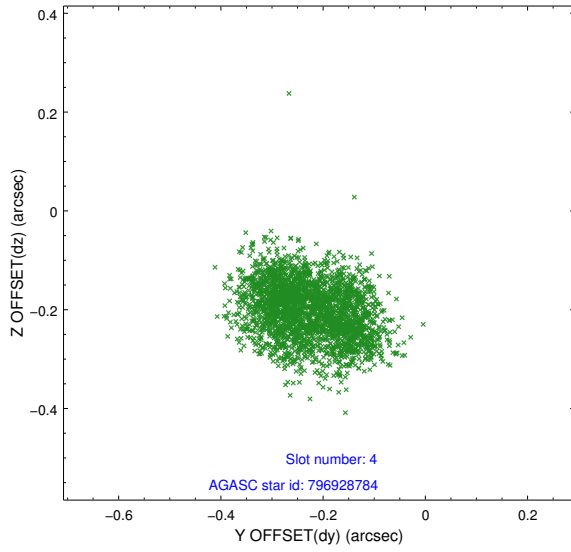
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.20	1260	0.051	-0.052	0.006	0.010	0.000000	0.000000	934.80	-1727.24
1	FID	ACIS-S-5	7.24	1260	-0.121	0.024	0.006	0.010	0.000000	0.000000	-1813.72	169.16
2	FID	ACIS-S-6	7.35	1260	0.049	0.040	0.007	0.011	0.000000	0.000000	399.07	814.48
3	GUIDE	796922952	10.02	2519	0.147	0.231	0.135	0.216	166.412795	-18.656501	-1122.89	-504.21
4	GUIDE	796928784	8.41	2519	-0.232	-0.200	0.100	0.149	166.853792	-17.800971	1703.25	1436.21
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	796930872	10.15	2517	-0.103	-0.094	0.174	0.267	166.504684	-19.082395	-1602.47	-1993.25
7	GUIDE	796931344	10.36	2518	0.191	0.054	0.189	0.311	166.706582	-18.871960	-632.55	-1672.47

2.4 Star Slots

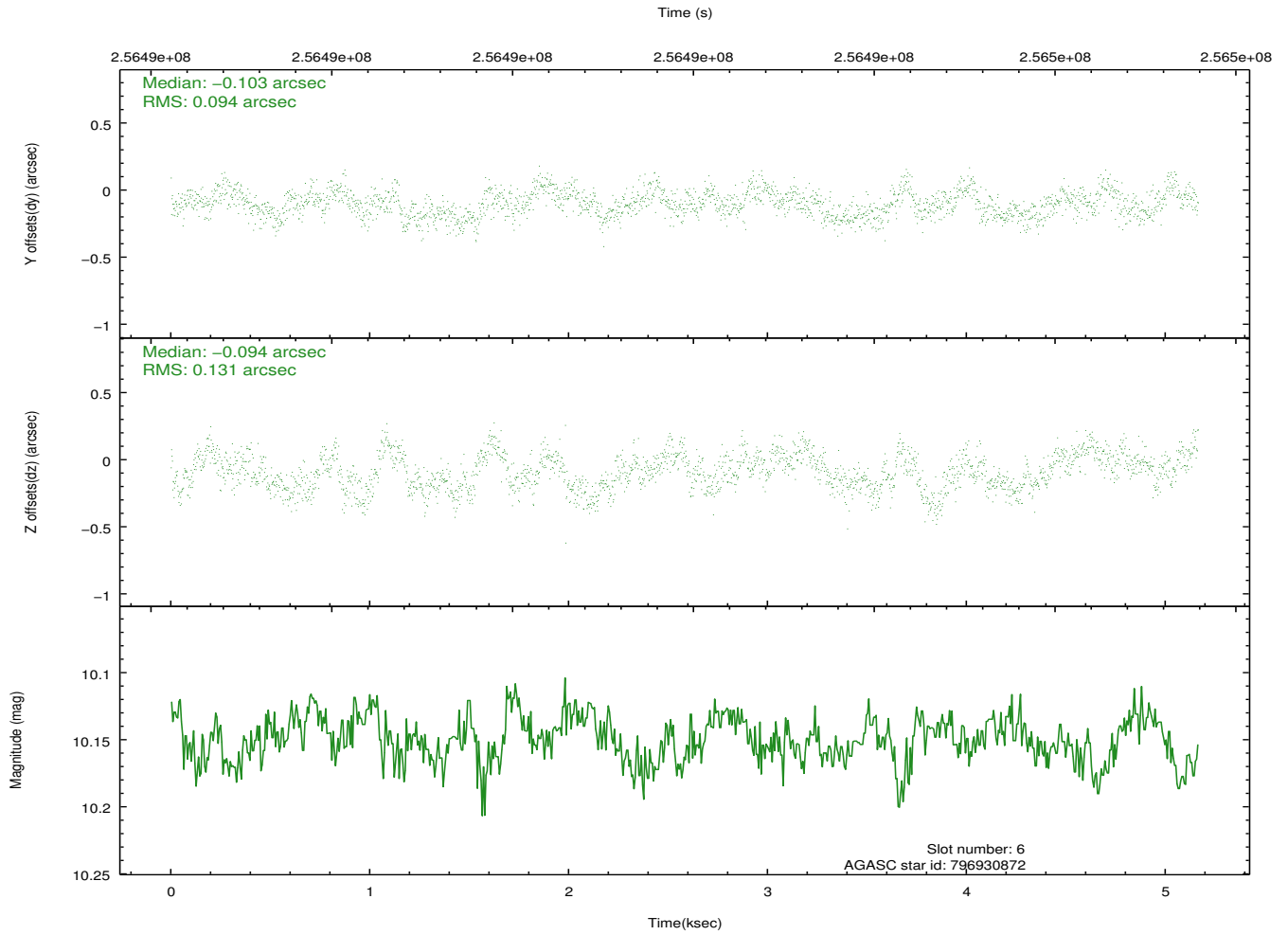
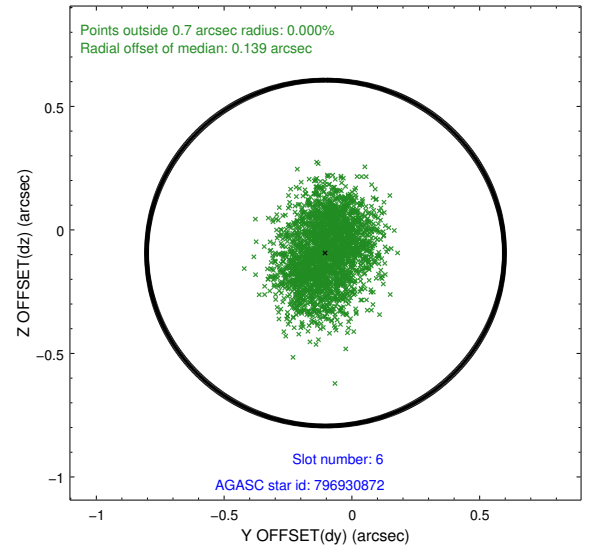
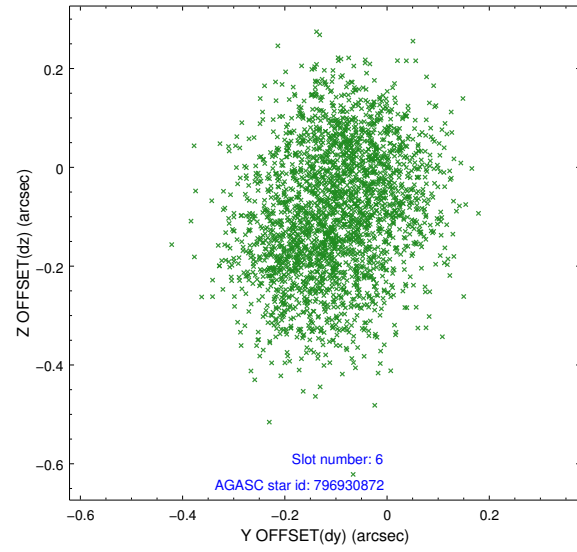
2.4.1 Slot 3



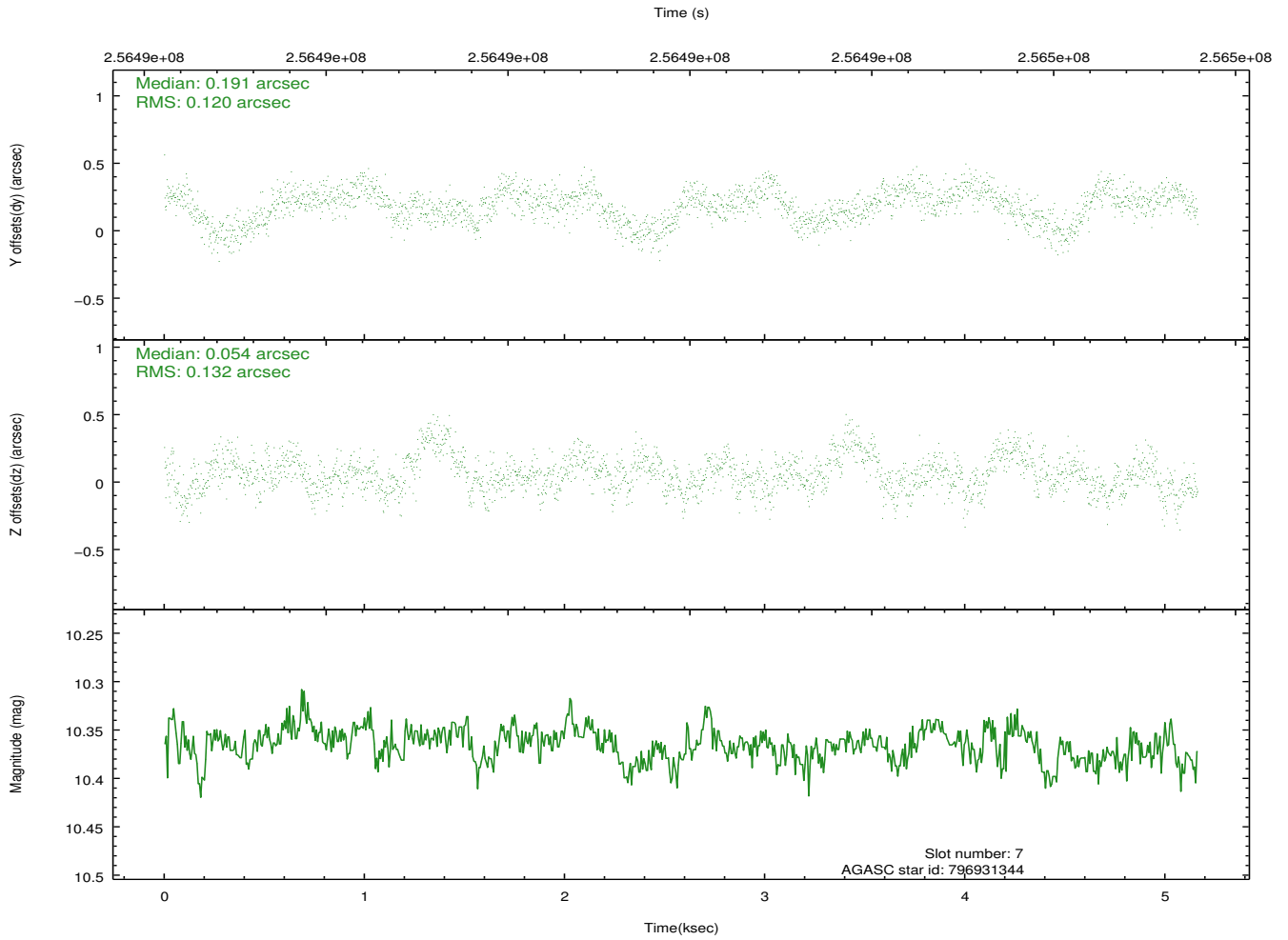
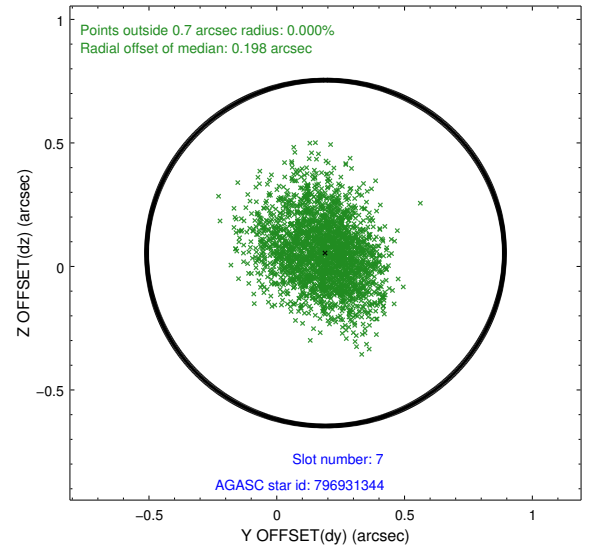
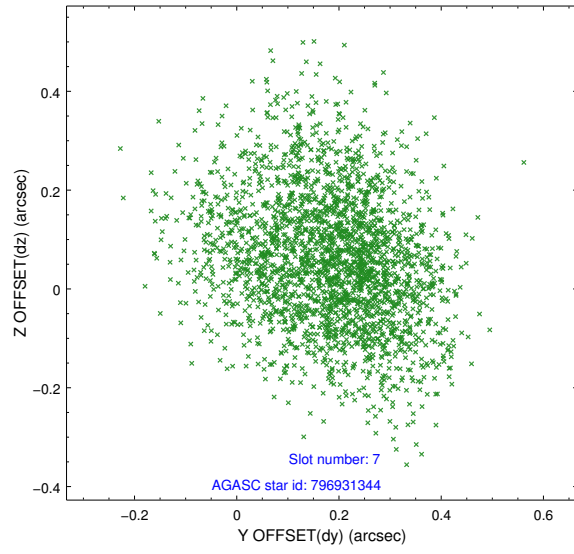
2.4.2 Slot 4



2.4.3 Slot 6

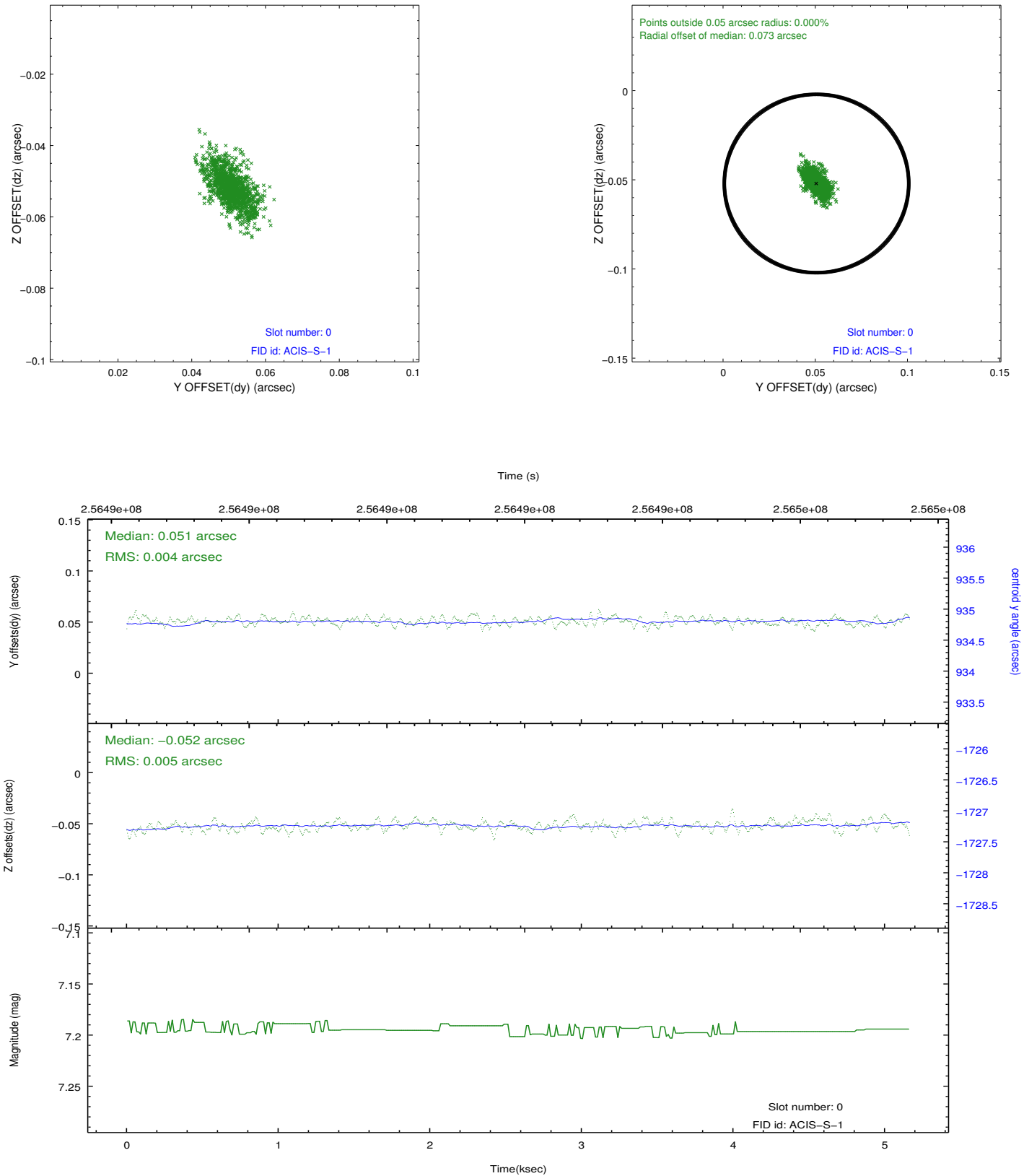


2.4.4 Slot 7

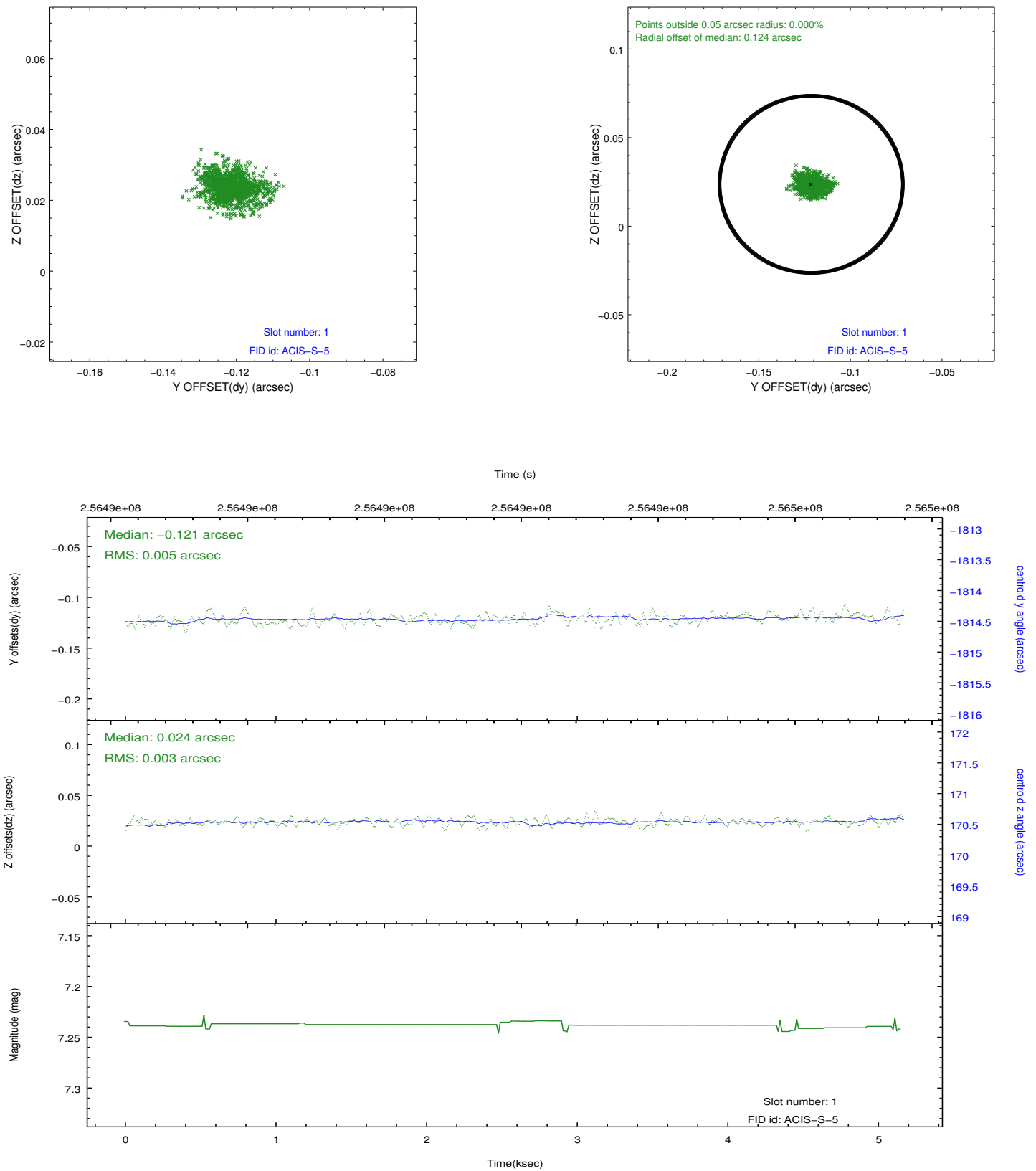


2.5 FID Slots

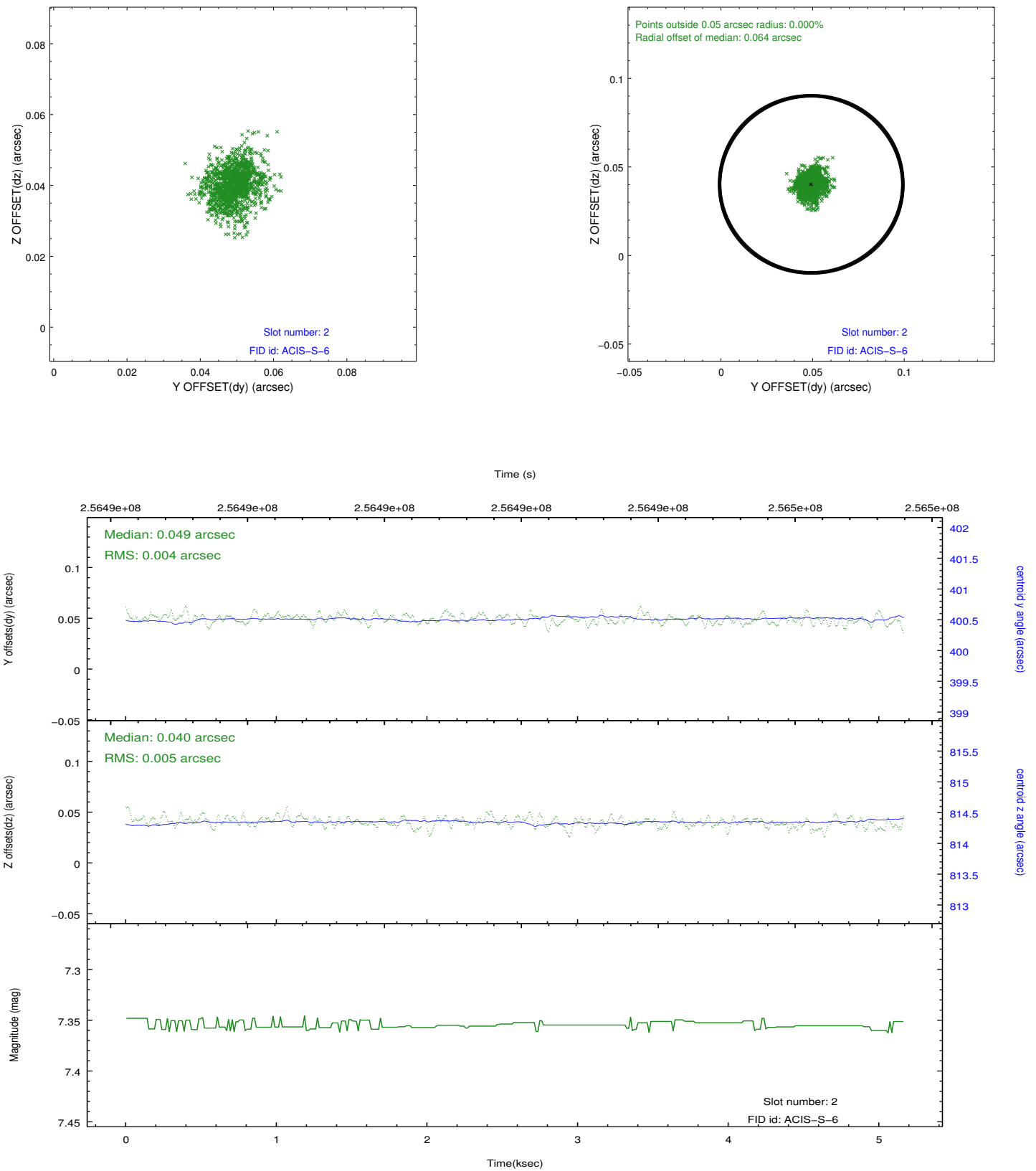
2.5.1 Slot 0



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)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.162

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.