

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6913 - L2 Version 2  
Chandra X-Ray Center

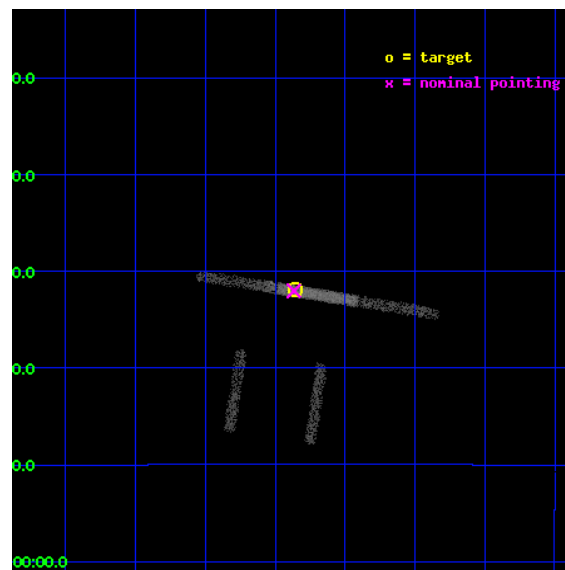
L2 Processing Date : Mar 27 2012

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# 1 Front

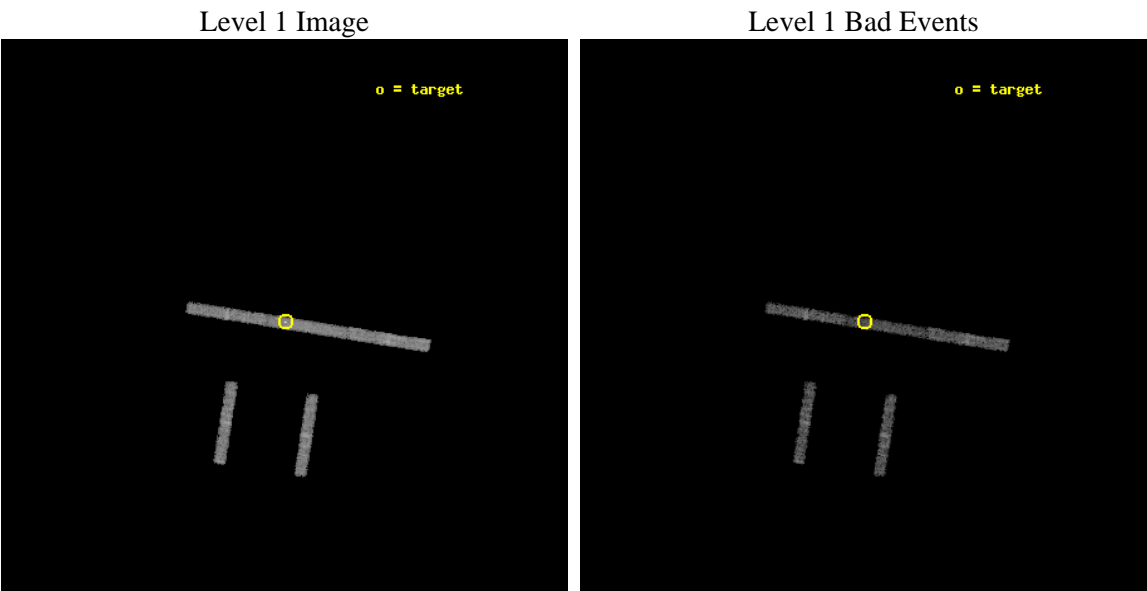
seq_num	701328	Sequence number
obs_id	6913	Observation id
title	Studying the Spatial Structures of the Optical and X-ray Emission Regions of Quasars by Monitoring Microlensing Events	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RXJ 1131-1231	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96660977573	Nominal RA [deg]
dec_nom	-12.533963518913	Nominal Dec [deg]
roll_nom	8.9366962269848	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5182.7999117374	Sum of GTIs [s]
livetime	4895.7680263092	Livetime [s]
ontime2	5182.7999117374	Sum of GTIs [s]
ontime3	5182.7999117374	Sum of GTIs [s]
ontime6	5182.7999117374	Sum of GTIs [s]
ontime7	5182.7999117374	Sum of GTIs [s]
ontime8	5182.7999117374	Sum of GTIs [s]
l2events	7547	Number of level 2 events



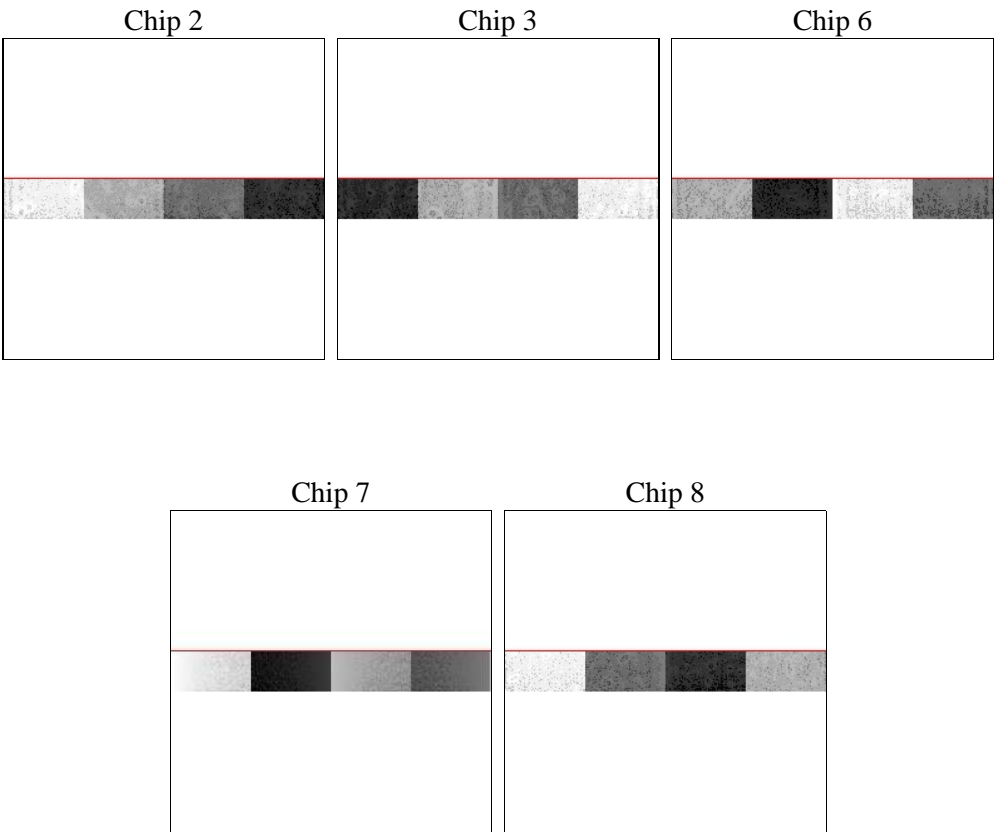
2 OBI

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	Processing system revision	ontime	5182.7999117374	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	5182.7999117374	Sum of GTIs [s]
date	2012-03-27T05:34:17	Date and time of file creation	ontime3	5182.7999117374	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5182.7999117374	Sum of GTIs [s]
			ontime7	5182.7999117374	Sum of GTIs [s]
			ontime8	5182.7999117374	Sum of GTIs [s]
			l1events	51258	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	9024	8917	9354	11760	12203
rejected events	8181	8121	8380	6853	10394
rejected %	90%	91%	89%	58%	85%

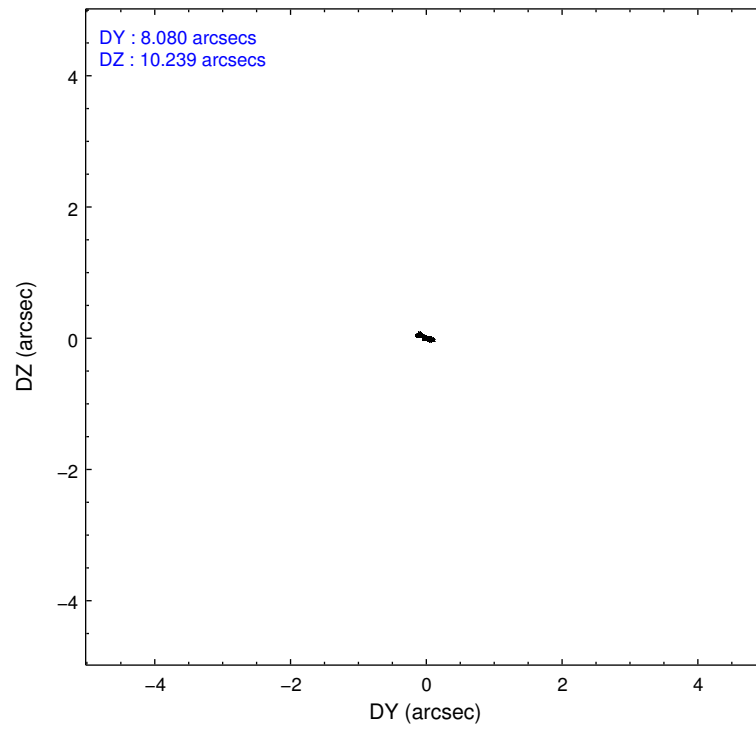
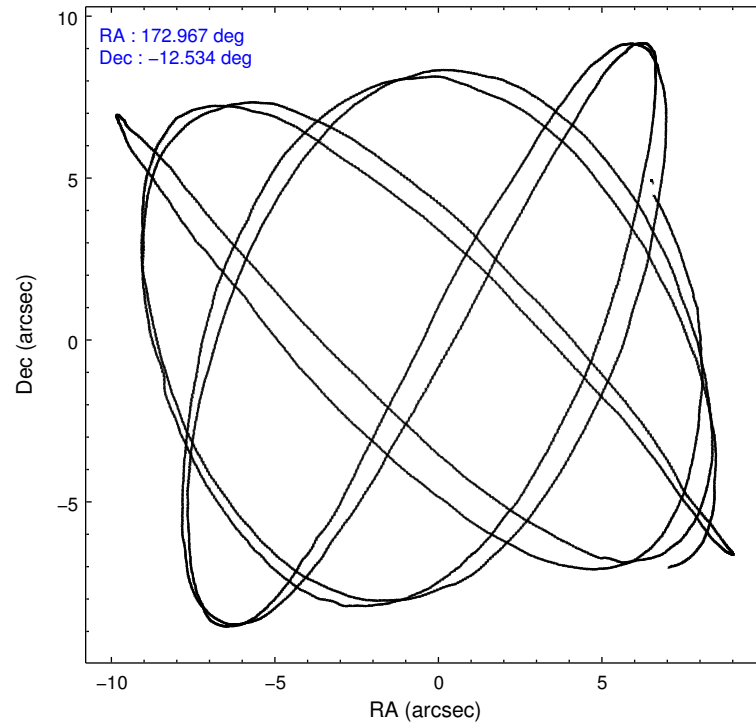
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	389	369	451	871	576
	4%	4%	4%	7%	4%
grade 1 events	2	1	4	20	4
	0%	0%	0%	0%	0%
grade 2 events	173	165	203	1277	442
	1%	1%	2%	10%	3%
grade 3 events	155	157	161	677	227
	1%	1%	1%	5%	1%
grade 4 events	179	148	181	635	230
	1%	1%	1%	5%	1%
grade 5 events	249	345	375	974	436
	2%	3%	4%	8%	3%
grade 6 events	136	164	166	2355	666
	1%	1%	1%	20%	5%
grade 7 events	7741	7568	7813	4951	9622
	85%	84%	83%	42%	78%

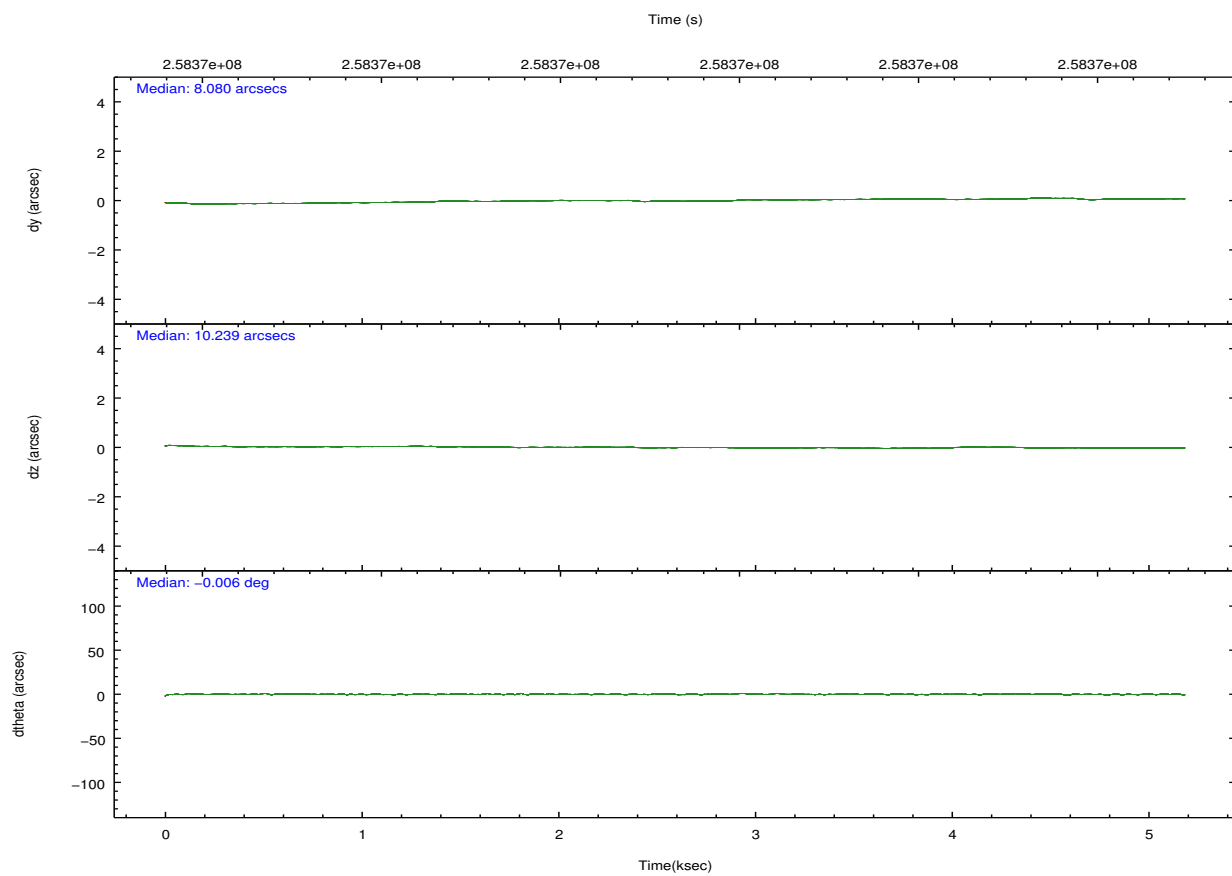
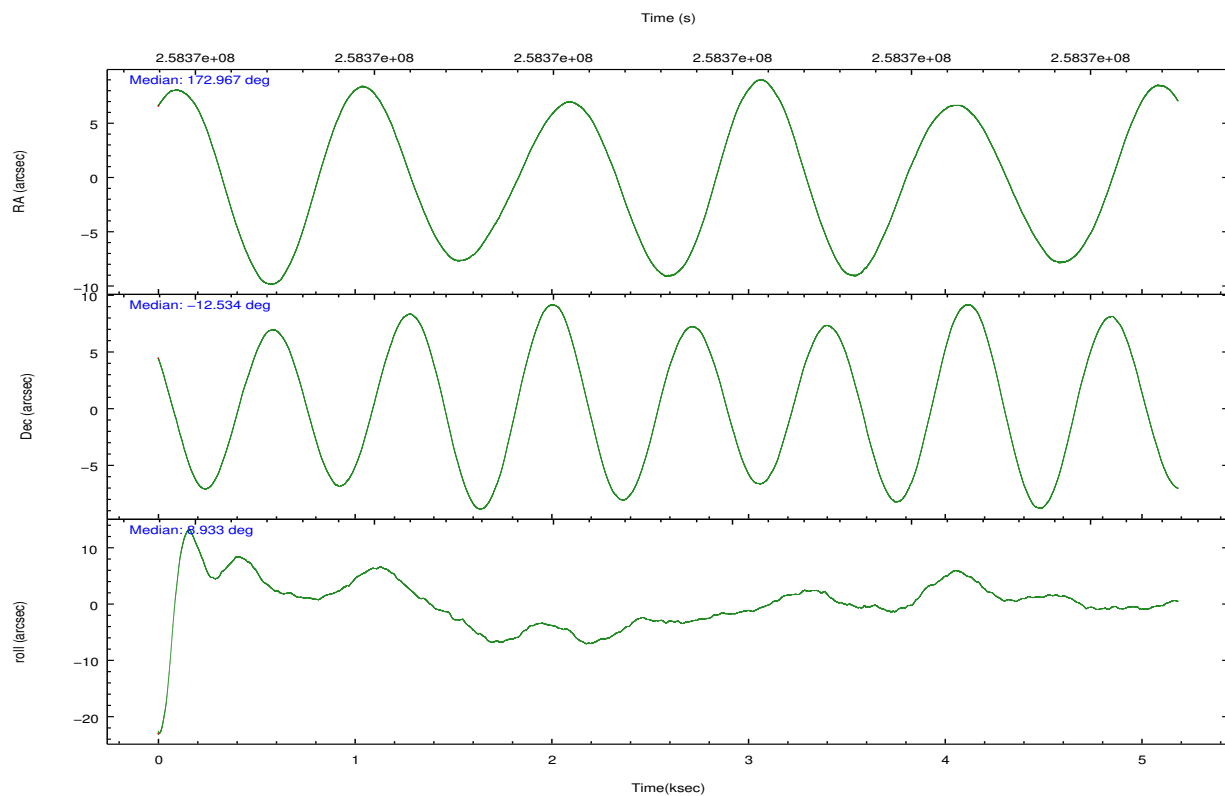


## 2.2 Compared Parameters

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	172.945061	172.9666097757338	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-12.551357	-12.53396351891321	Subarray start row	449	449
[deg] Pointing Roll	8.775376	8.936696226984811	Subarray row count	128	128
[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	0.7
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	258366231.184000	258364804.61495			
Observation start date	2006-03-10T08:22:46	2006-03-10T08:00:04			
[s] Observation end time (MET)	258371231.184000	258371856.61528			
Observation end date	2006-03-10T09:46:06	2006-03-10T09:57:36			
Read mode	TIMED	TIMED			

## 2.3 Aspect



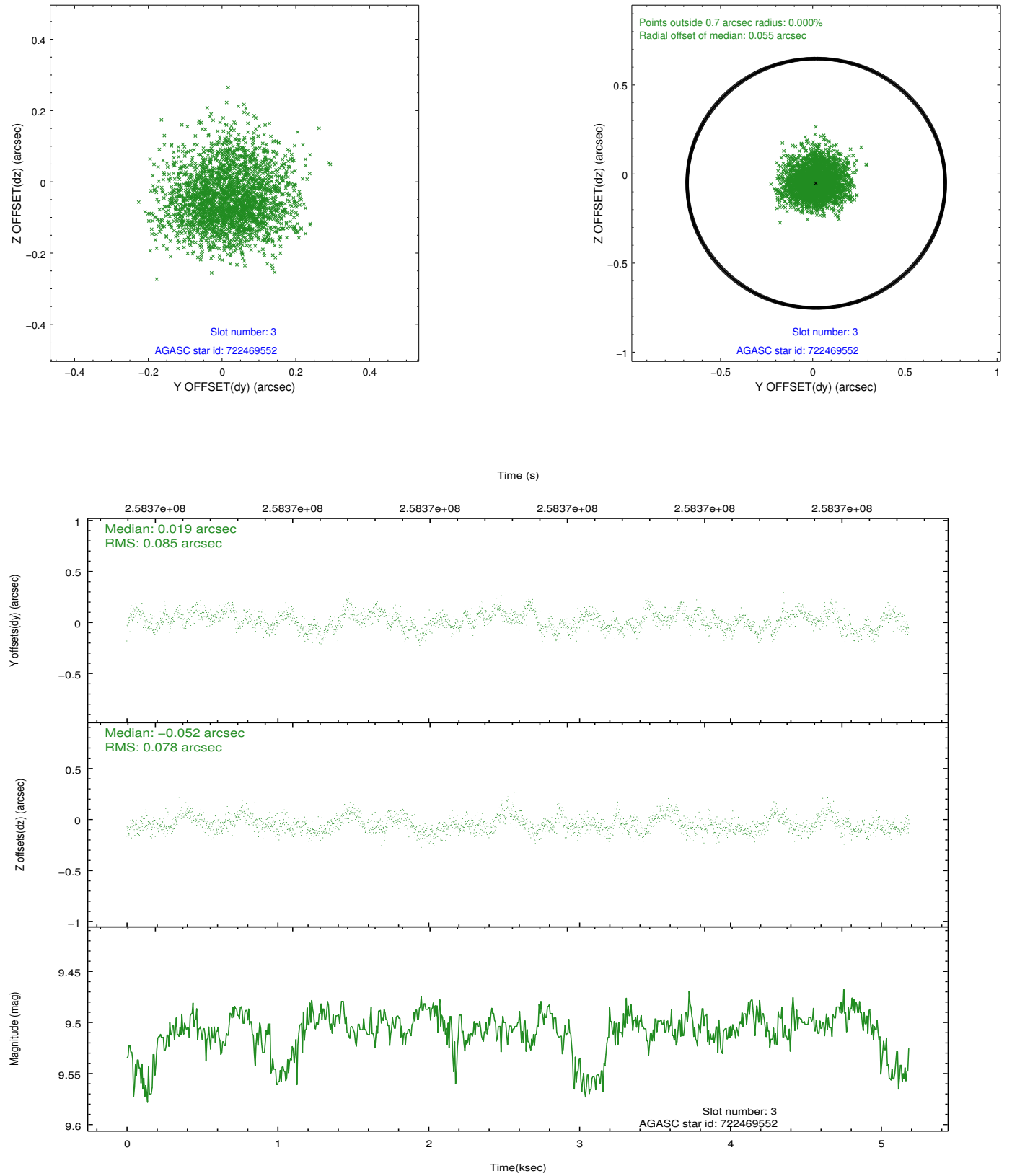


### Slot Statistics

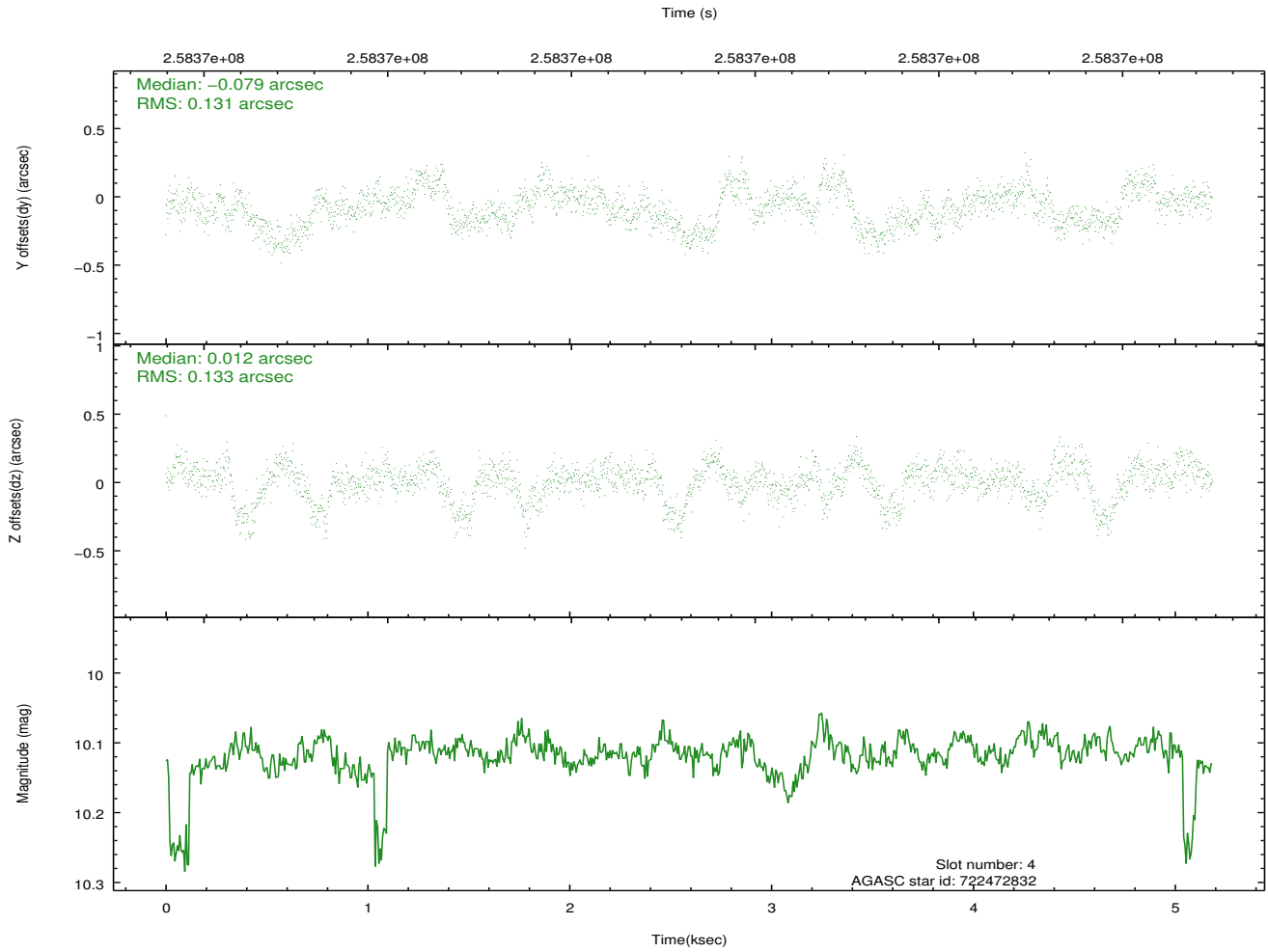
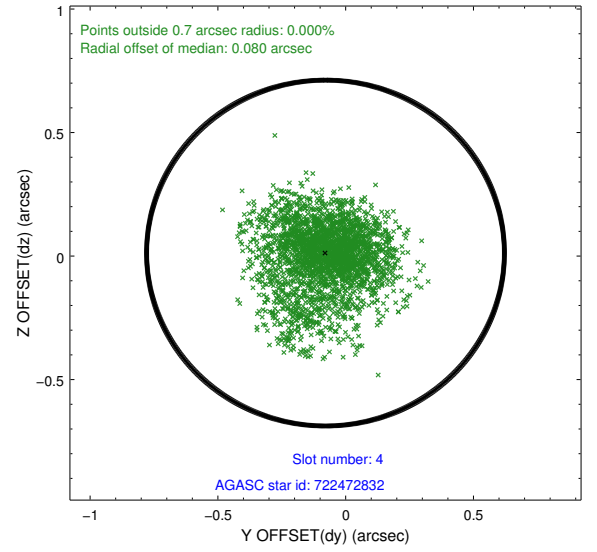
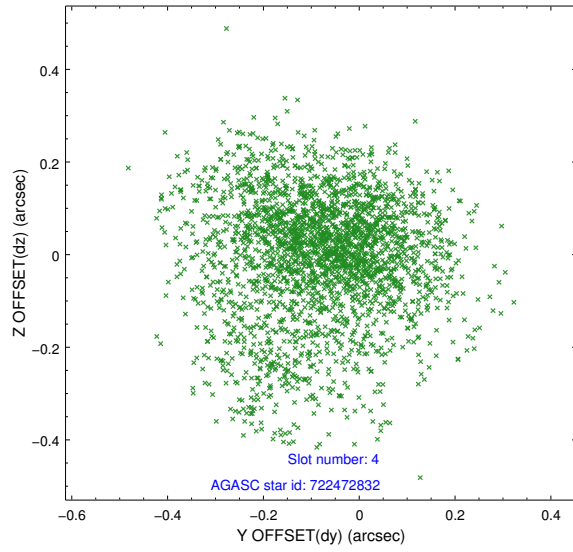
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1265	-0.045	-0.029	0.007	0.011	0.000000	0.000000	-760.85	-1731.49
1	FID	ACIS-S-4	7.21	1265	0.133	0.029	0.006	0.011	0.000000	0.000000	2152.02	175.92
2	FID	ACIS-S-5	7.23	1265	-0.119	0.008	0.008	0.013	0.000000	0.000000	-1812.32	170.79
3	GUIDE	722469552	9.51	2523	0.019	-0.052	0.125	0.198	172.271393	-12.124699	-2109.83	1877.02
4	GUIDE	722472832	10.12	2522	-0.079	0.012	0.202	0.332	173.078970	-12.015349	759.21	1836.15
5	GUIDE	722473176	9.49	2526	0.062	-0.043	0.107	0.175	172.599746	-12.066793	-935.52	1909.64
6	GUIDE	722871728	9.67	2526	0.070	0.038	0.102	0.168	173.202235	-12.568355	883.14	-197.51
7	GUIDE	722873464	7.30	2528	-0.071	0.053	0.077	0.118	172.661543	-13.050266	-1256.41	-1624.00

## 2.4 Star Slots

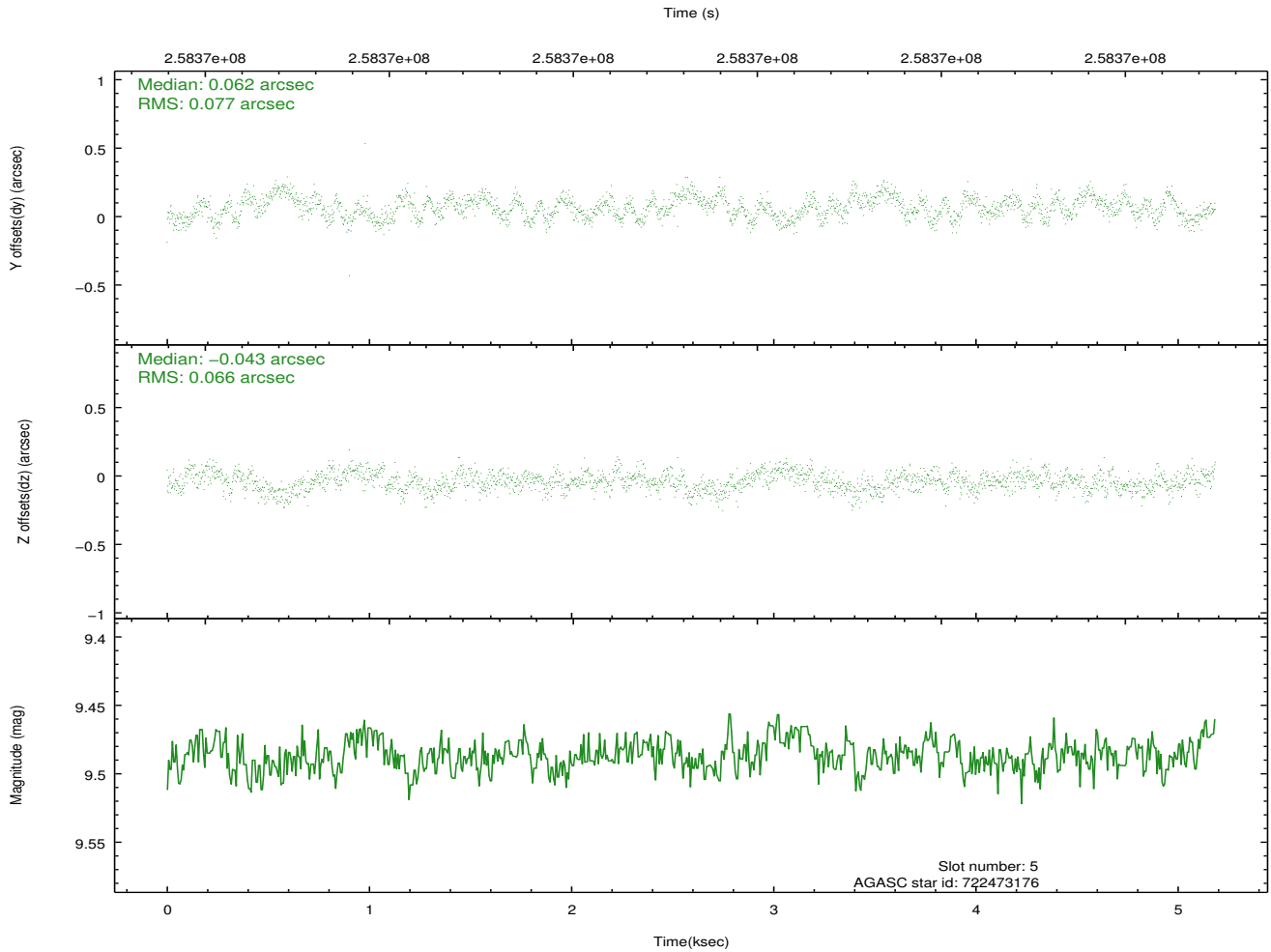
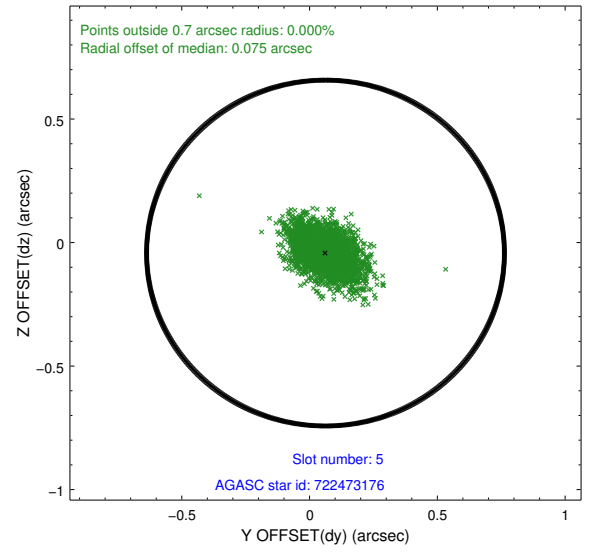
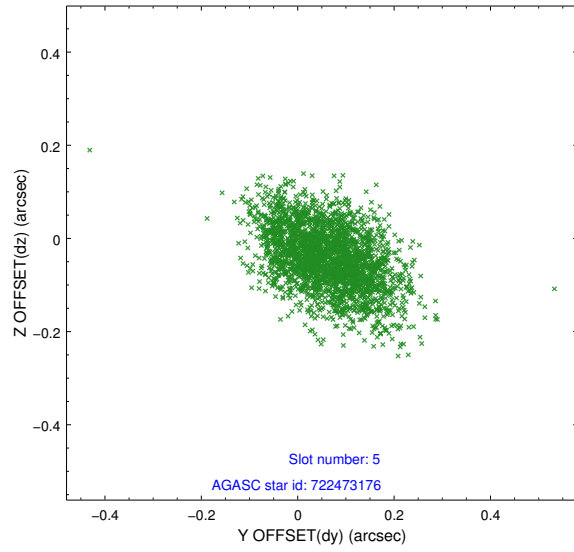
### 2.4.1 Slot 3



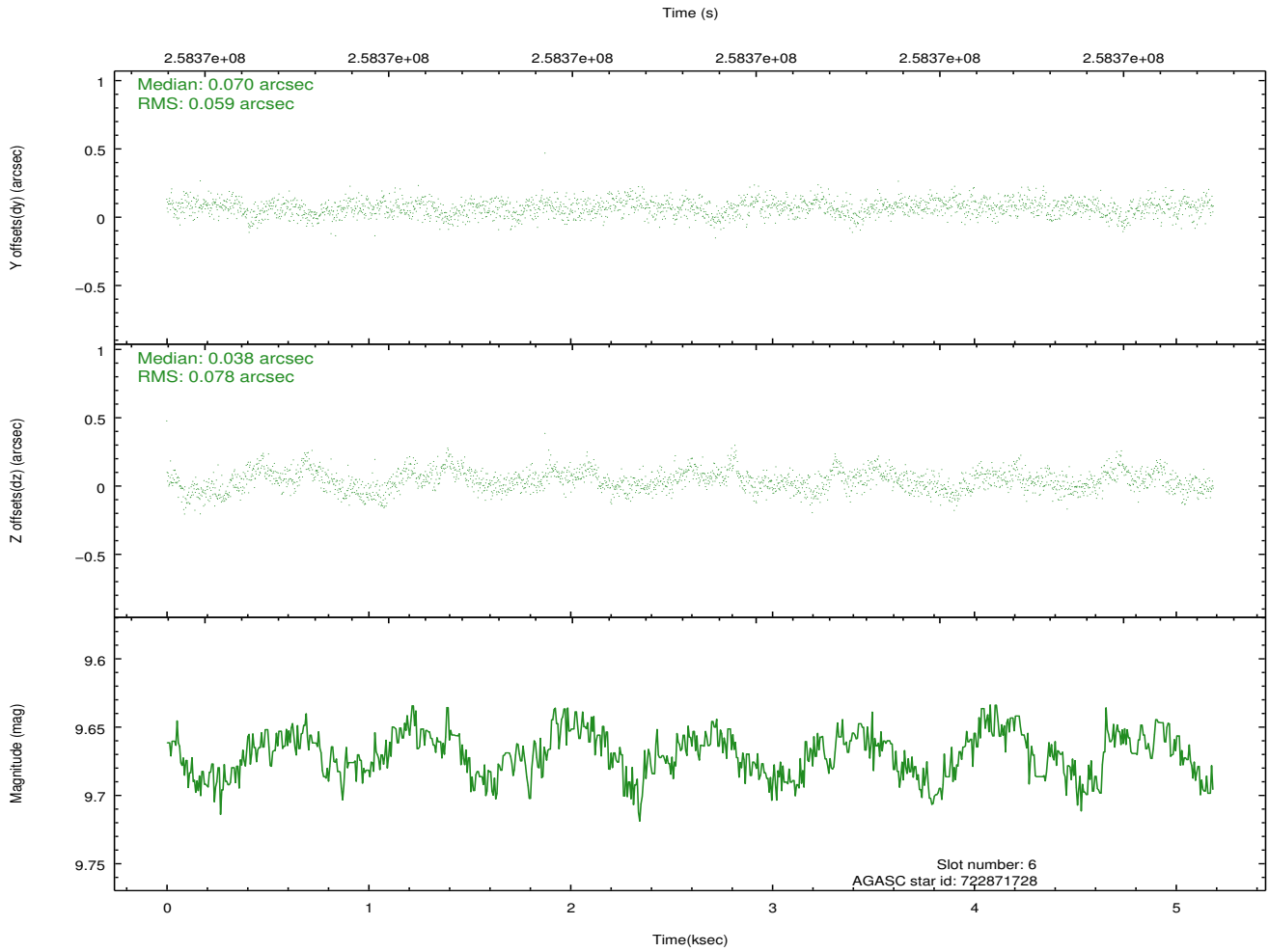
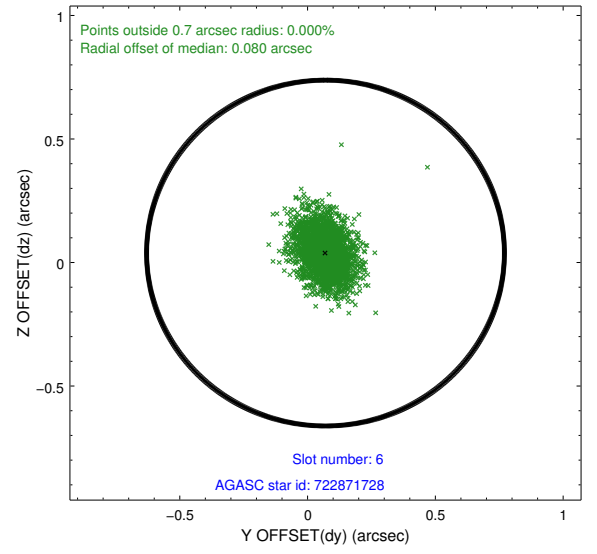
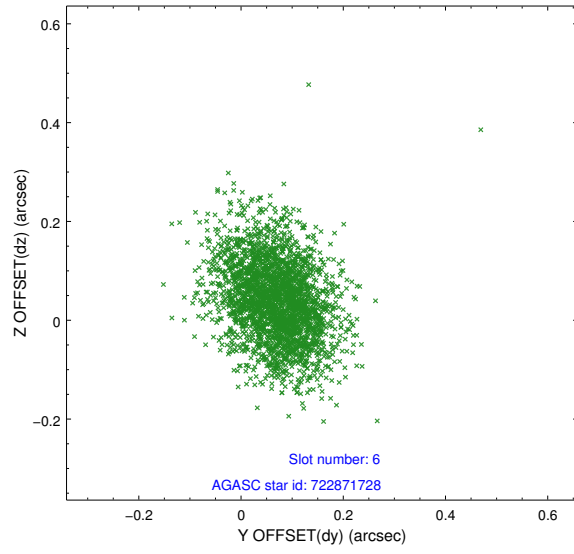
## 2.4.2 Slot 4



### 2.4.3 Slot 5

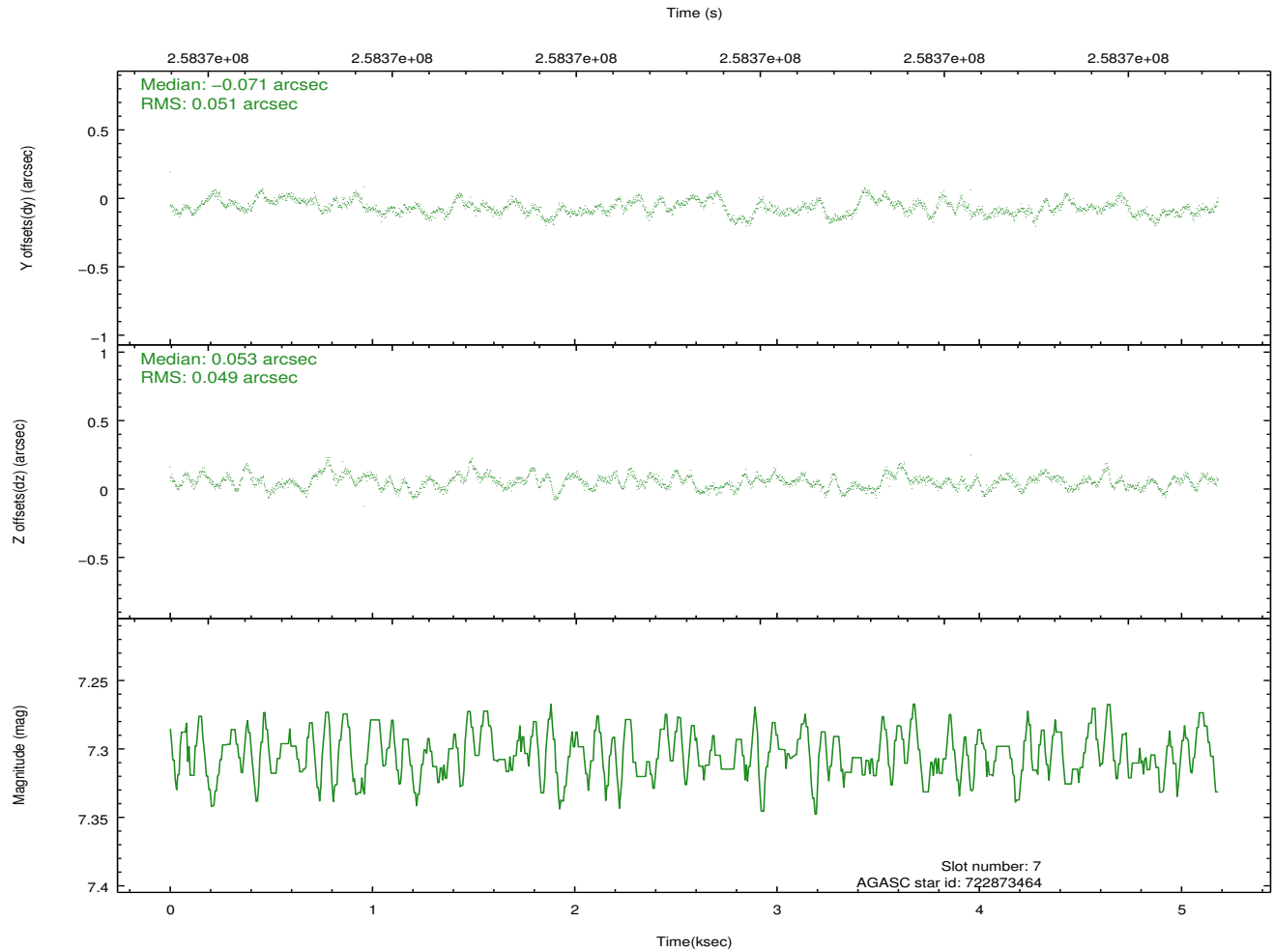
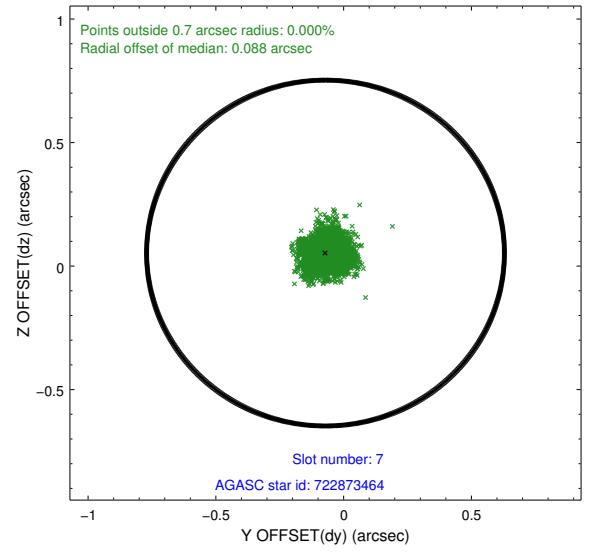
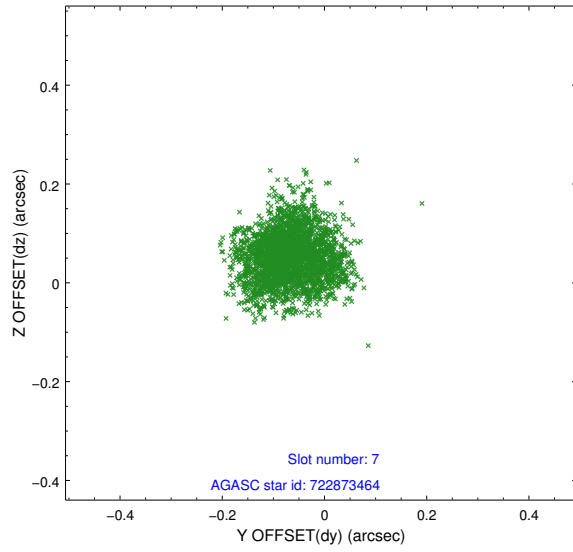


## 2.4.4 Slot 6



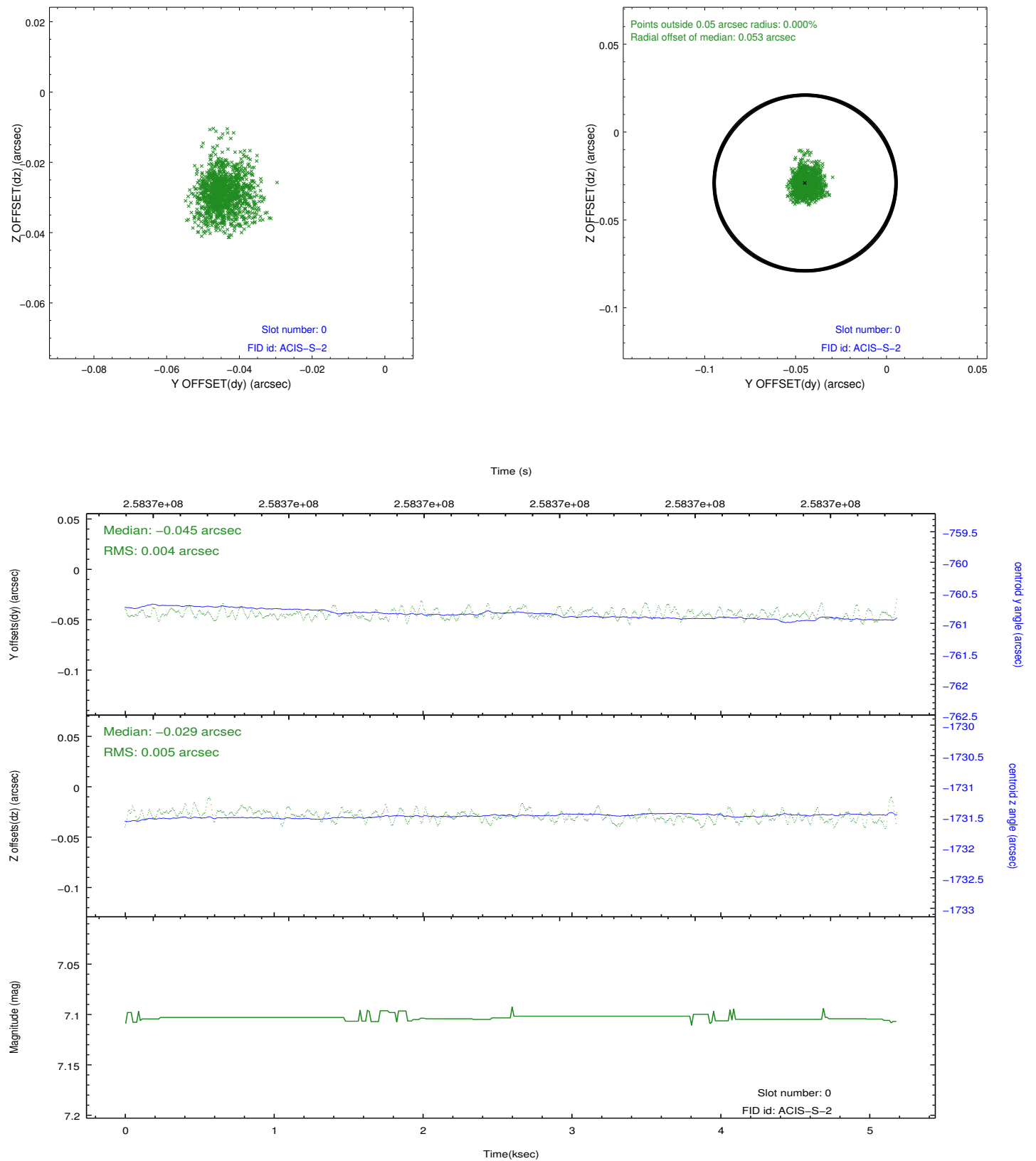


## 2.4.5 Slot 7

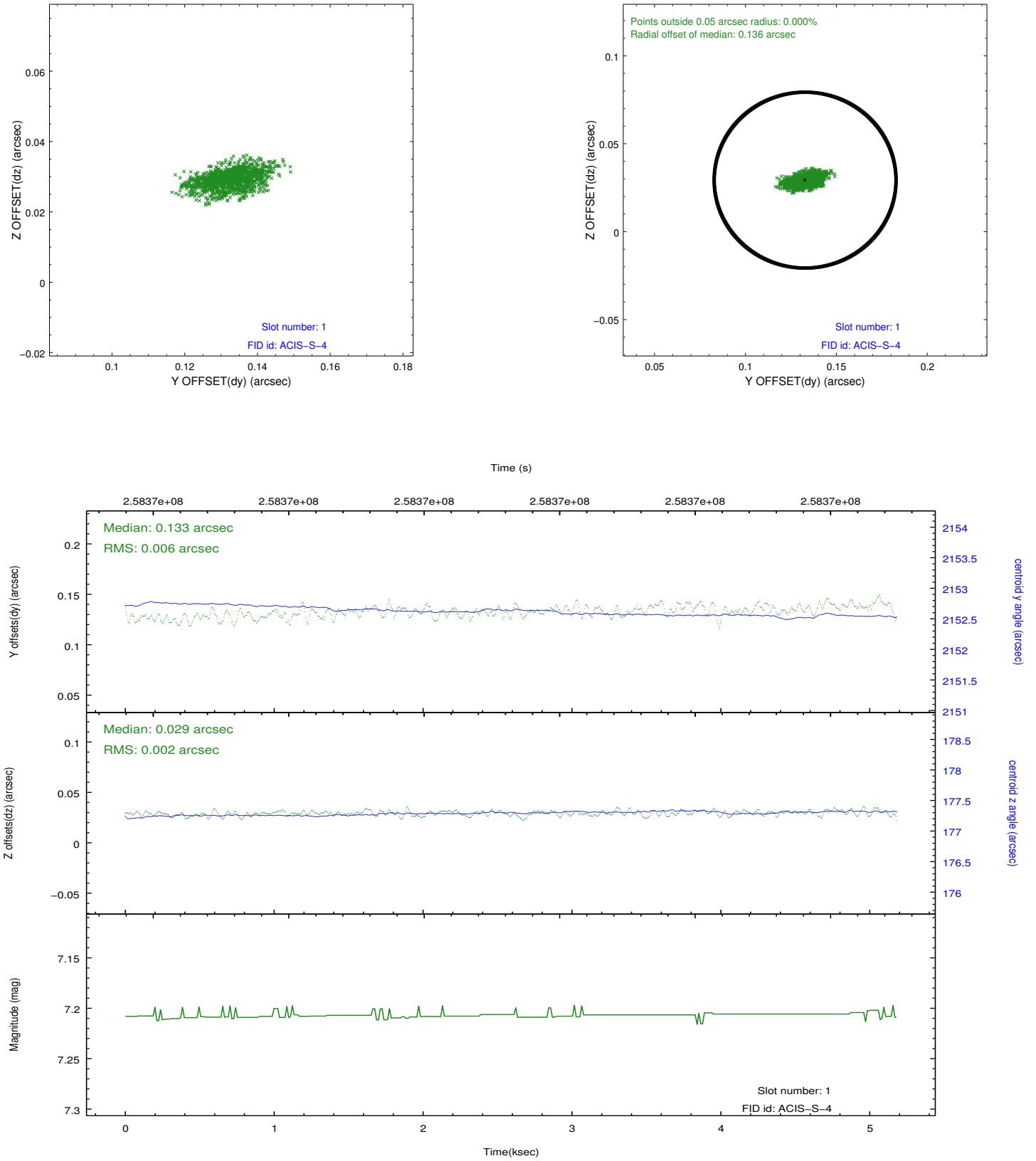


## 2.5 FID Slots

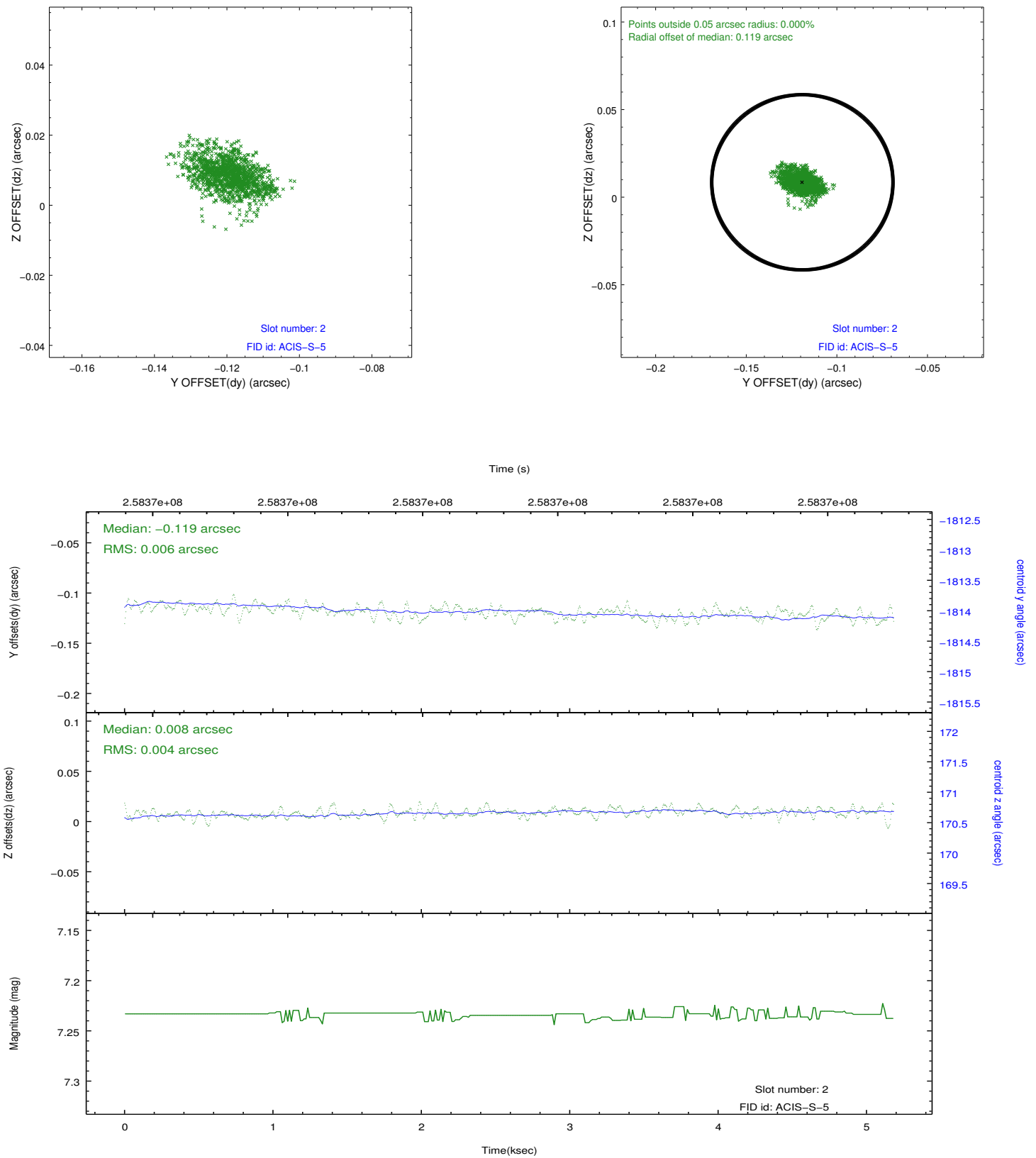
### 2.5.1 Slot 0



## 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)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18279991

### A.2 Comments

Window preference met.