

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9293 - L2 Version 2  
Chandra X-Ray Center

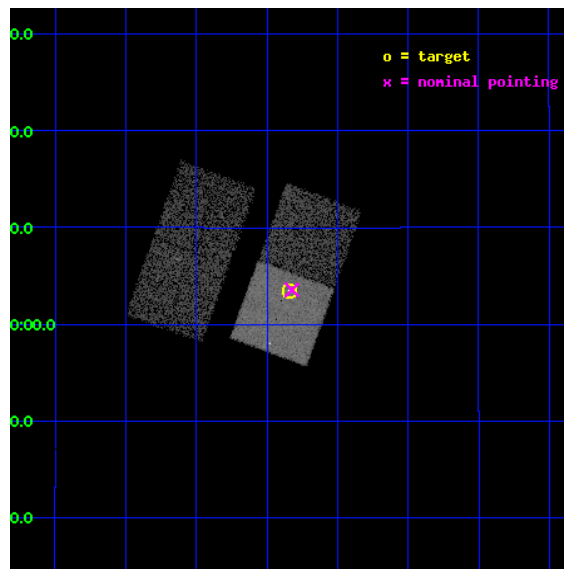
L2 Processing Date : May 16 2012

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# 1 Front

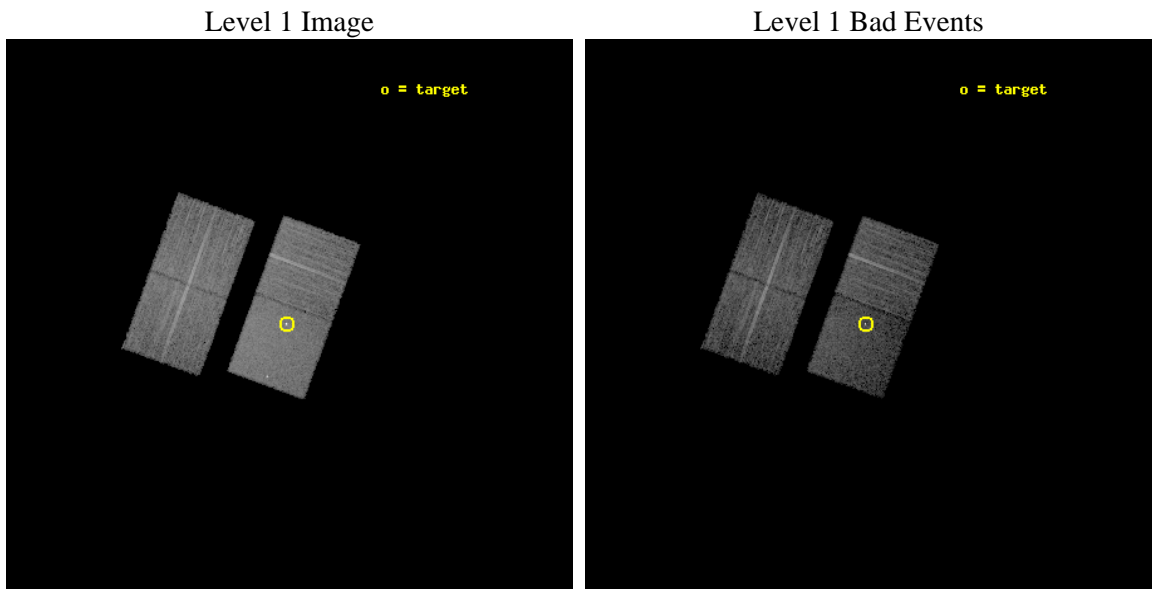
seq_num	701733	Sequence number
obs_id	9293	Observation id
title	Towards a Complete Sample: 3CR Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C18	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.209583	Observer's specified target RA [deg]
dec_targ	10.0565	Observer's specified target Dec [deg]
ra_nom	10.205765361363	Nominal RA [deg]
dec_nom	10.059488108532	Nominal Dec [deg]
roll_nom	110.07950733964	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8047.6000618935	Sum of GTIs [s]
livetime	7942.4522425278	Livetime [s]
ontime2	8044.4413132668	Sum of GTIs [s]
ontime3	8047.6000618935	Sum of GTIs [s]
ontime6	8044.4591014981	Sum of GTIs [s]
ontime7	8047.6000618935	Sum of GTIs [s]
l2events	49666	Number of level 2 events



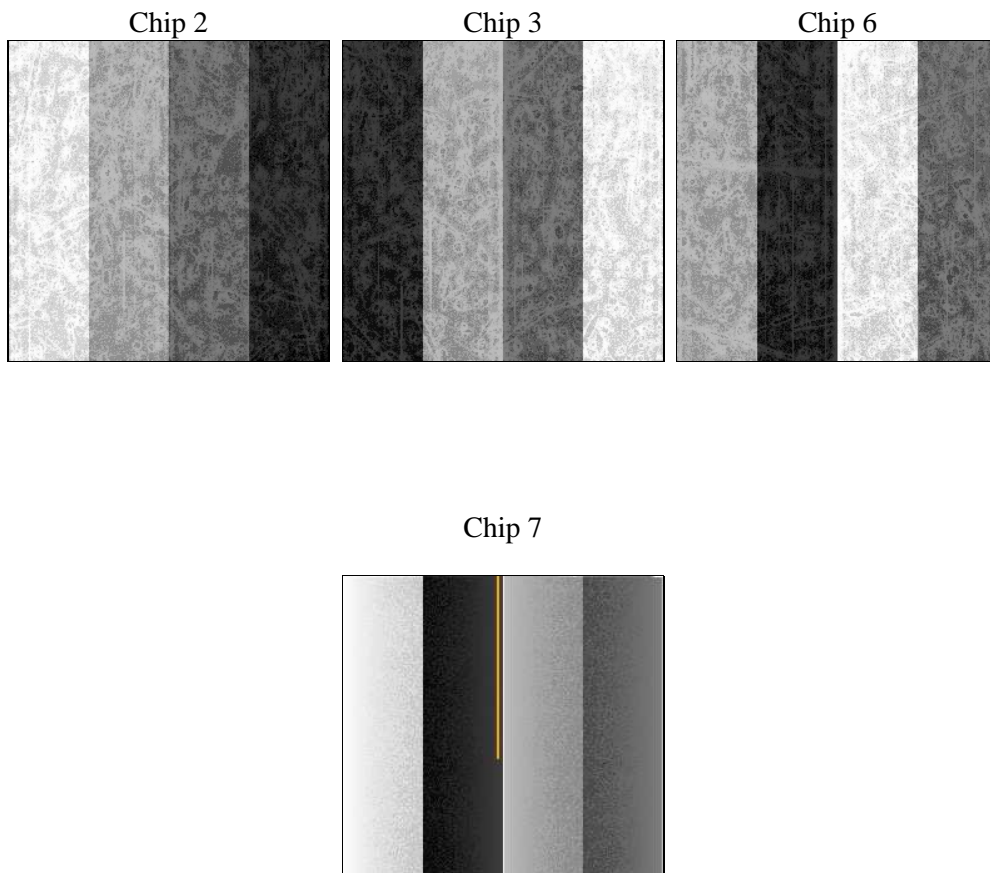
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.758000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8047.6000618935	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	8044.4413132668	Sum of GTIs [s]
date	2012-05-16T02:55:21	Date and time of file creation	ontime3	8047.6000618935	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8044.4591014981	Sum of GTIs [s]
			ontime7	8047.6000618935	Sum of GTIs [s]
			l1events	258418	Number of level 1 events

### 2.1.4 Events

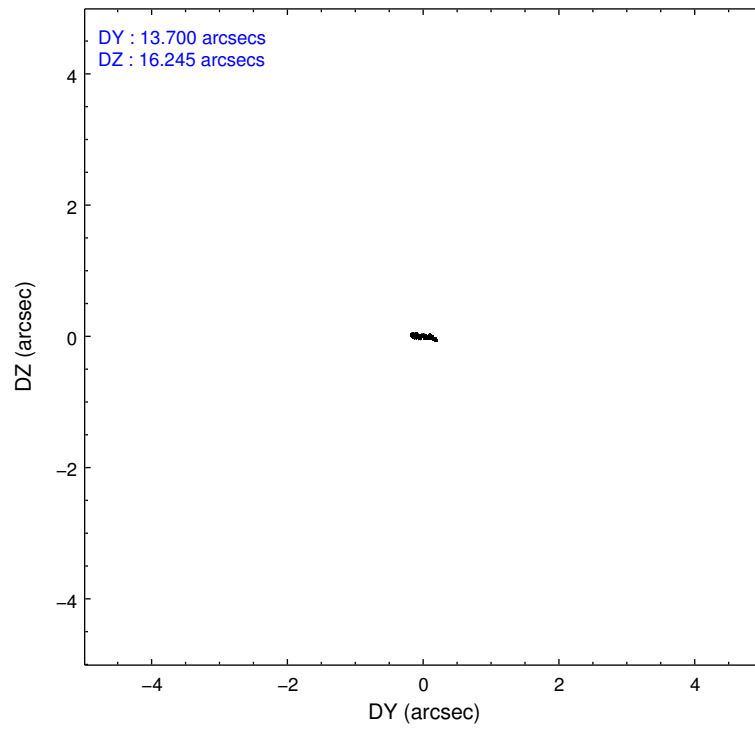
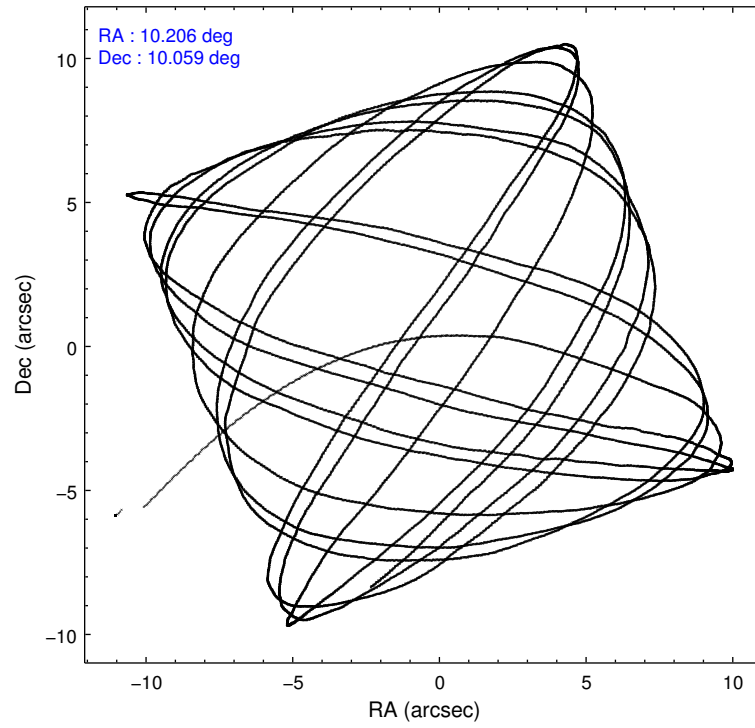
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	63164	58227	63147	73880
rejected events	57128	52148	56572	39159
rejected %	90%	89%	89%	53%

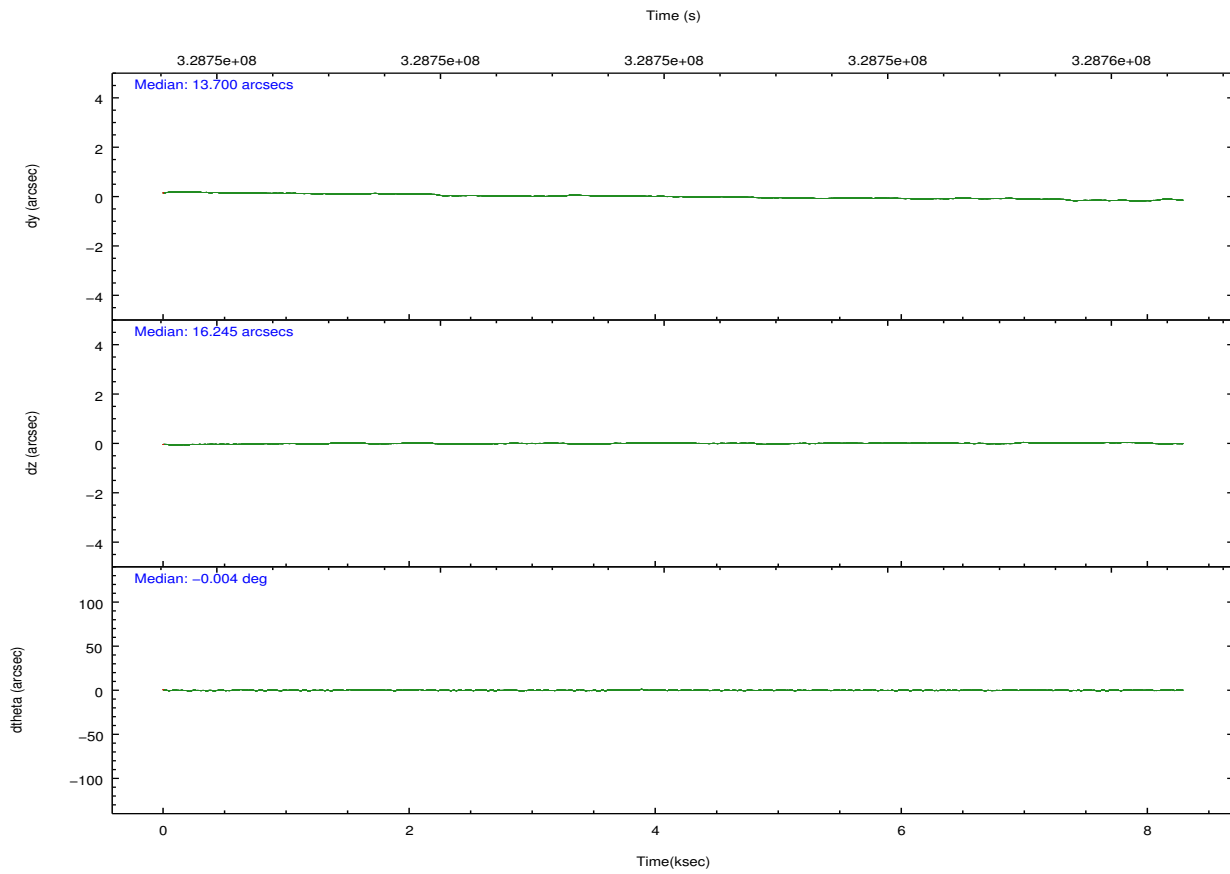
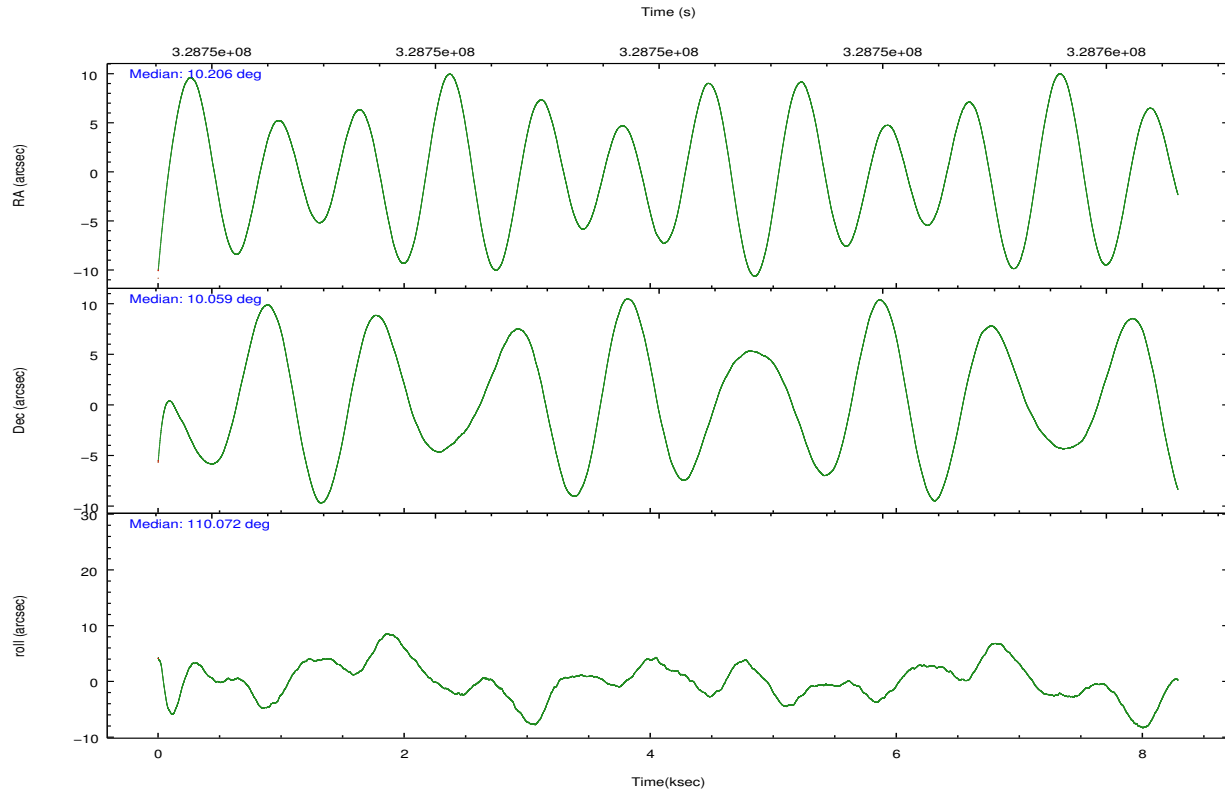
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2194	2064	2309	3592
	3%	3%	3%	4%
grade 1 events	31	31	31	134
	0%	0%	0%	0%
grade 2 events	1452	1357	1488	7202
	2%	2%	2%	9%
grade 3 events	626	736	707	3188
	0%	1%	1%	4%
grade 4 events	653	696	670	3199
	1%	1%	1%	4%
grade 5 events	1978	2557	2625	7761
	3%	4%	4%	10%
grade 6 events	1117	1229	1409	17557
	1%	2%	2%	23%
grade 7 events	55113	49557	53908	31247
	87%	85%	85%	42%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	10.227255	10.20576536136267	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.042236	10.05948810853241	Alternating exposures requested	N	N
[deg] Pointing Roll	109.919128	110.0795073396363	[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)	328748224.184000	328747304.73288			
Observation start date	2008-06-01T22:55:59	2008-06-01T22:41:44			
[s] Observation end time (MET)	328756225.184000	328756452.85833			
Observation end date	2008-06-02T01:09:20	2008-06-02T01:14:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



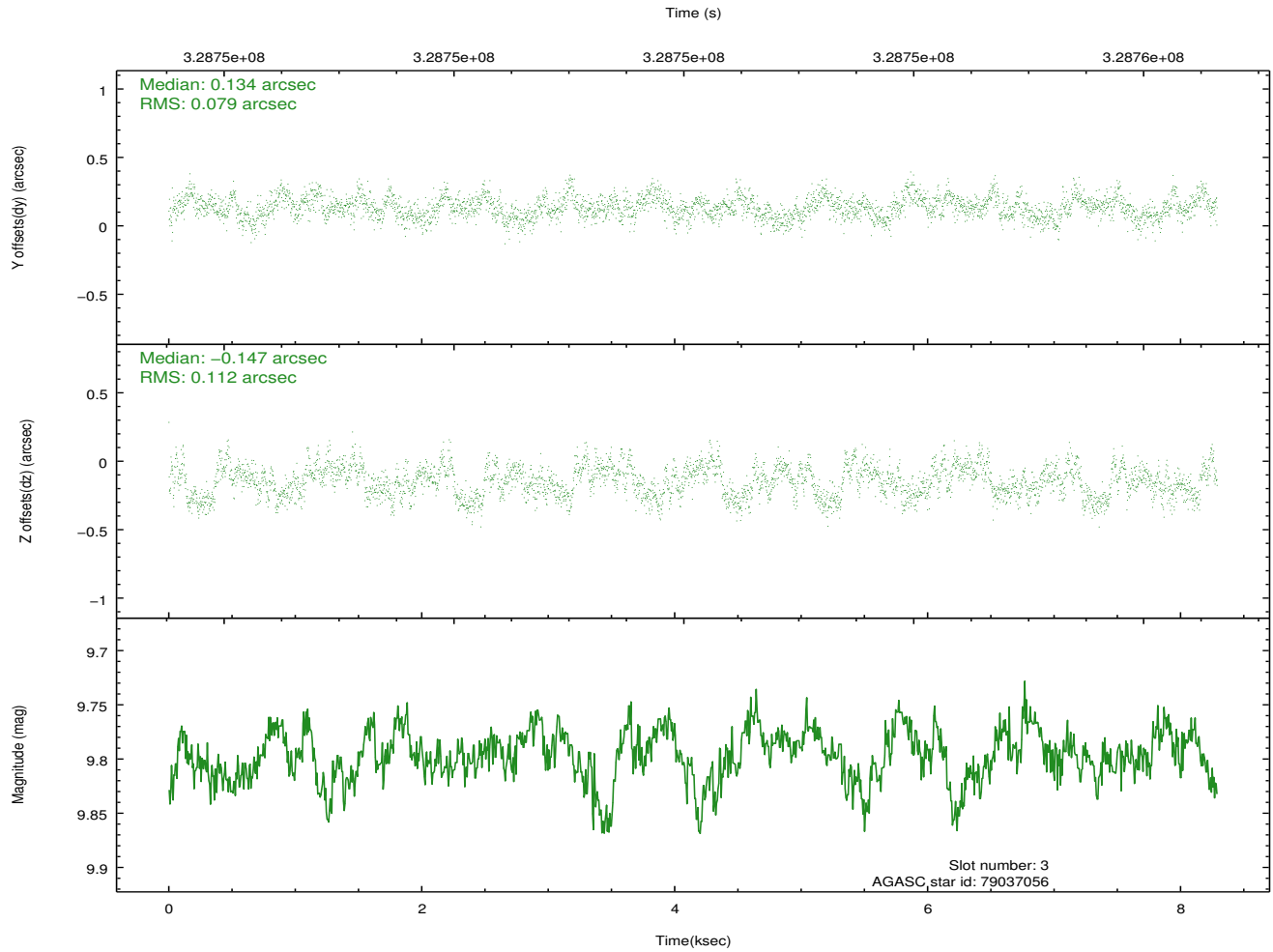
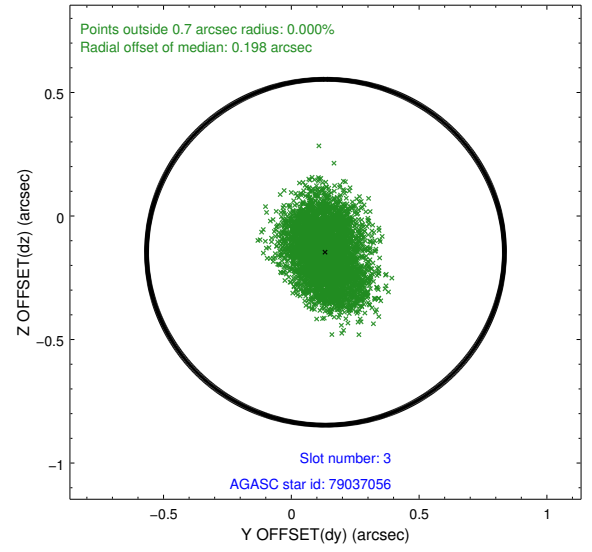
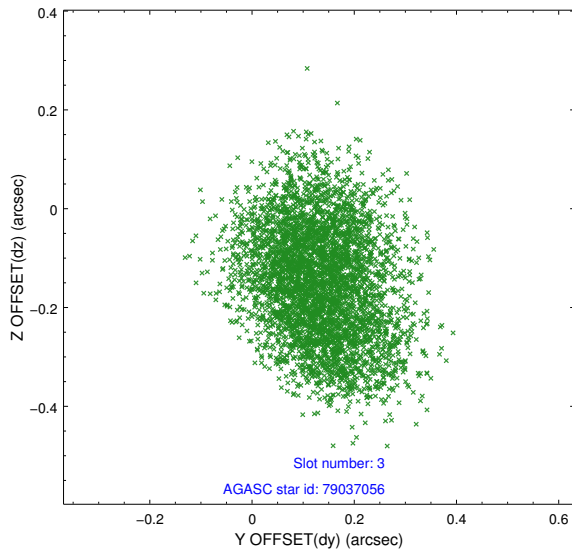


### Slot Statistics

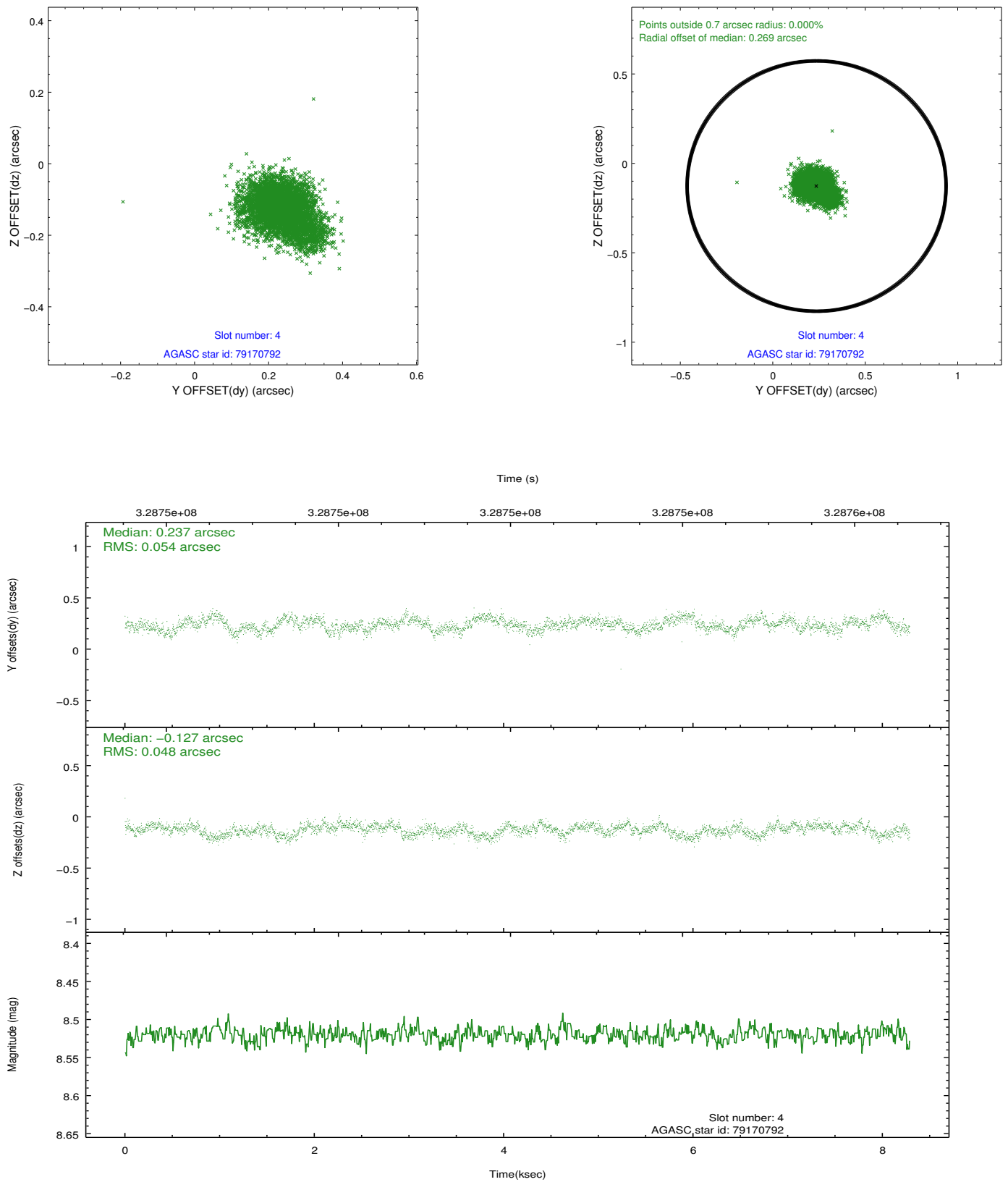
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	2022	-0.040	0.011	0.007	0.011	0.000000	0.000000	-766.67	-1737.59
1	FID	ACIS-S-4	6.95	2022	0.133	0.017	0.006	0.012	0.000000	0.000000	2146.47	170.20
2	FID	ACIS-S-5	6.98	2021	-0.124	-0.019	0.006	0.012	0.000000	0.000000	-1818.74	164.60
3	GUIDE	79037056	9.80	4041	0.134	-0.147	0.148	0.232	9.705054	9.743456	-378.80	2107.92
4	GUIDE	79170792	8.52	4043	0.237	-0.127	0.077	0.126	10.219484	9.381228	-2227.57	837.15
5	GUIDE	79439512	10.34	4027	-0.124	-0.114	0.214	0.347	9.437987	10.373645	2076.50	2220.87
6	GUIDE	79440720	9.18	4036	-0.068	-0.092	0.106	0.170	10.142894	10.124563	381.23	180.94
7	GUIDE	79565104	10.13	4040	-0.178	0.474	0.130	0.207	10.643845	10.452400	887.12	-1889.05

## 2.4 Star Slots

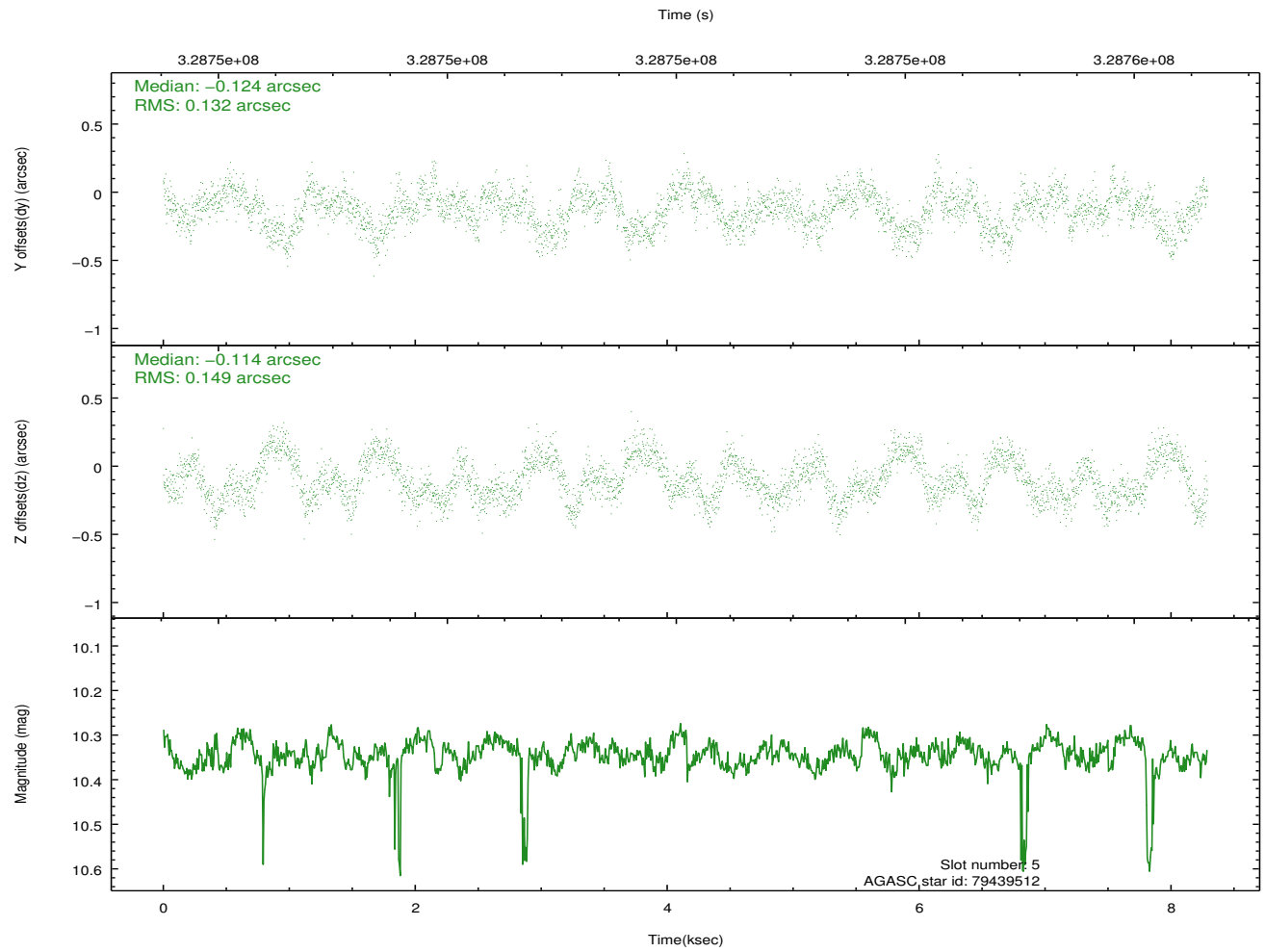
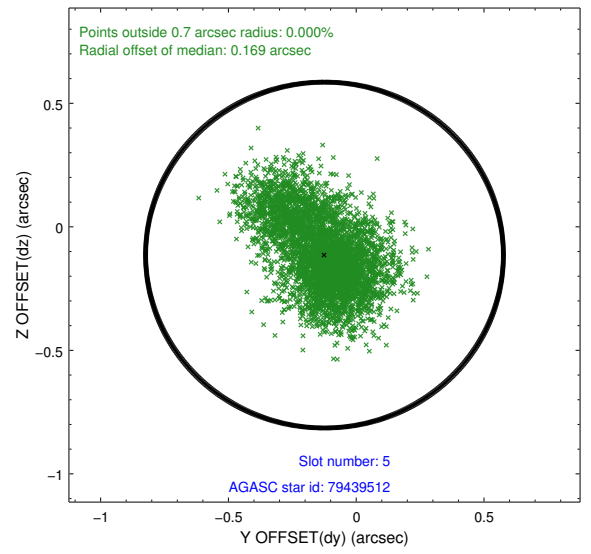
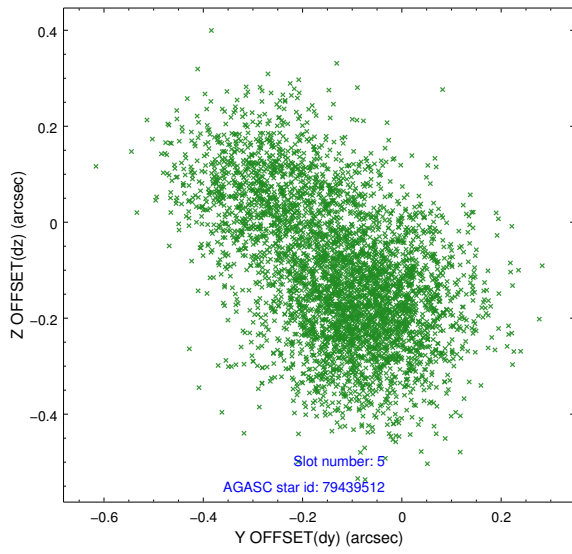
### 2.4.1 Slot 3



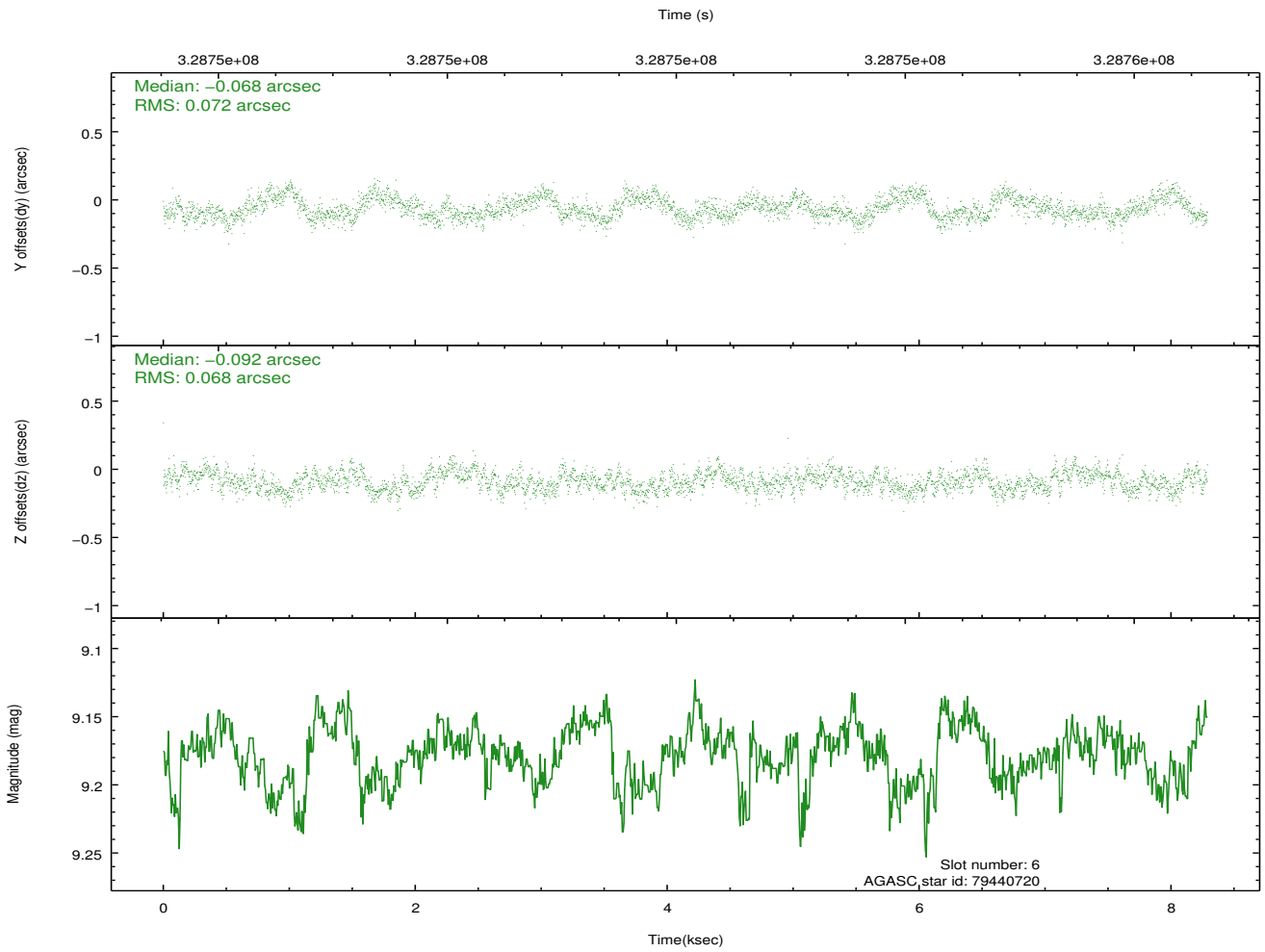
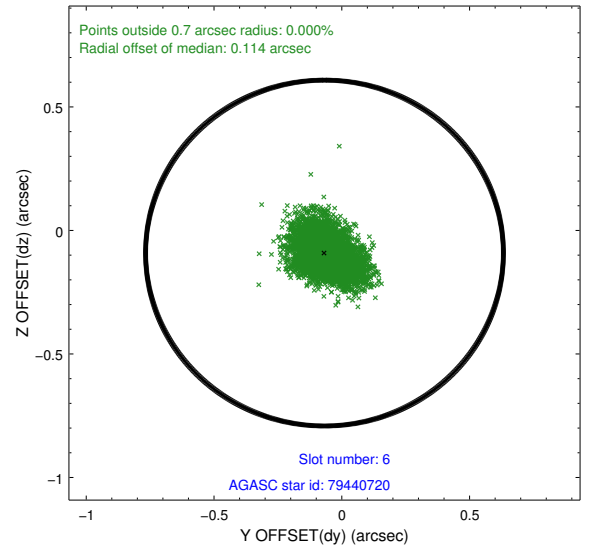
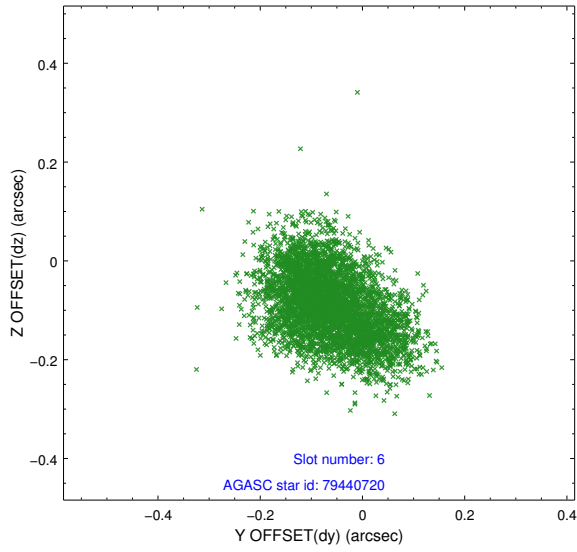
## 2.4.2 Slot 4



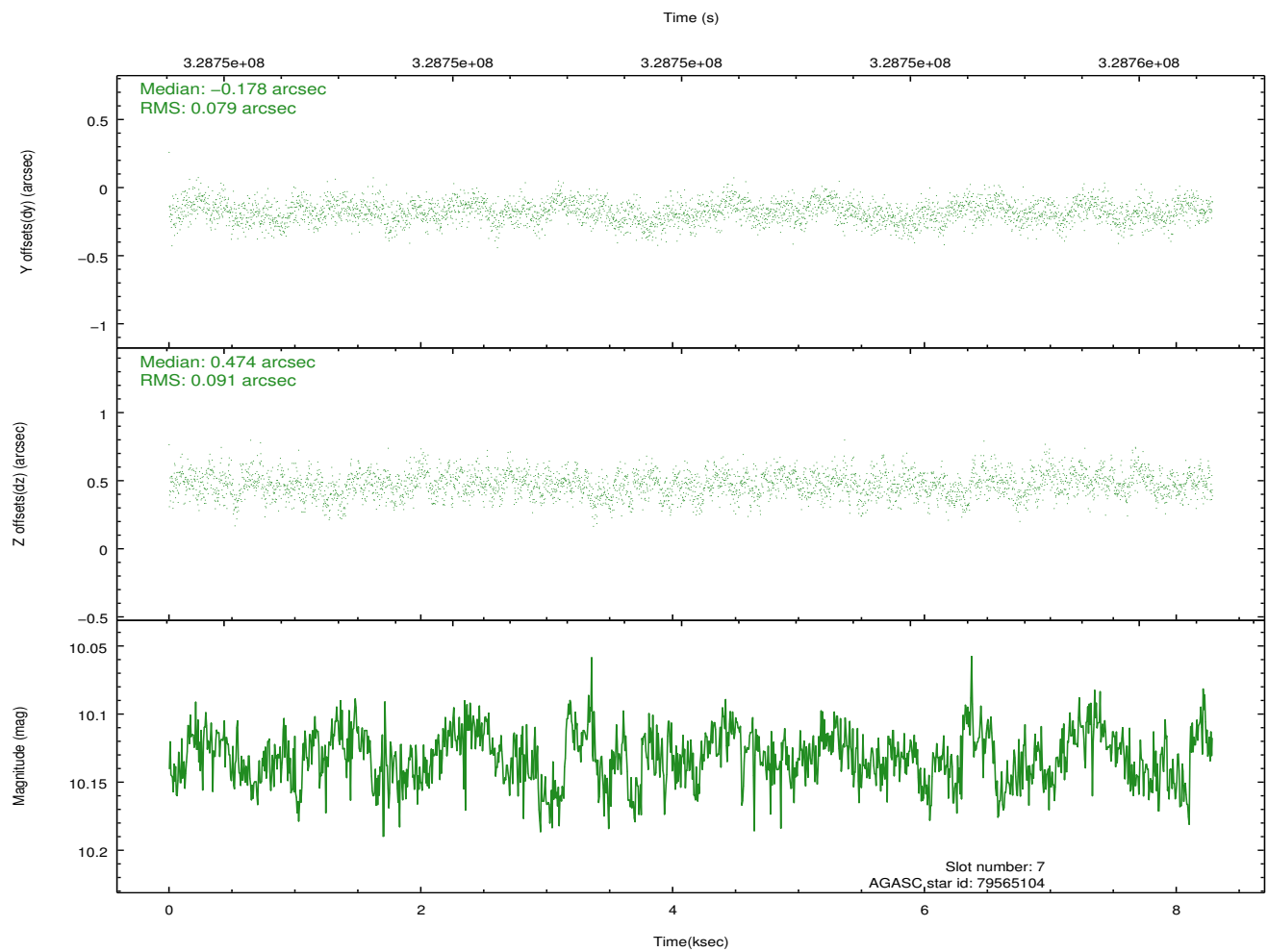
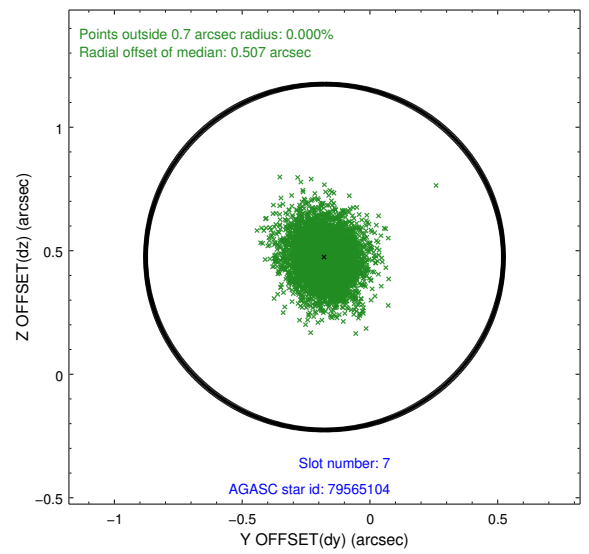
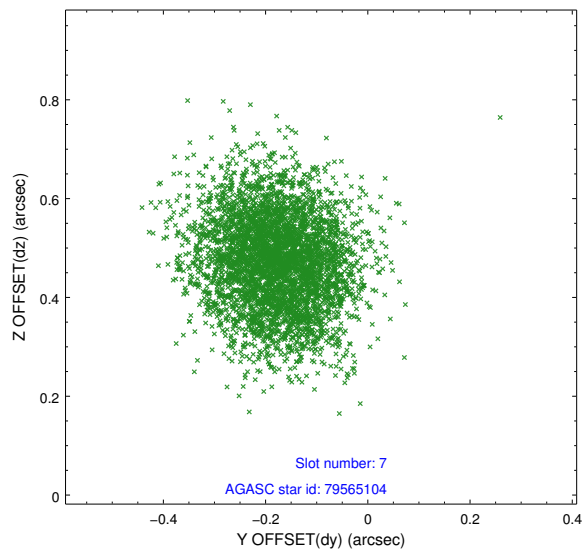
### 2.4.3 Slot 5



### 2.4.4 Slot 6

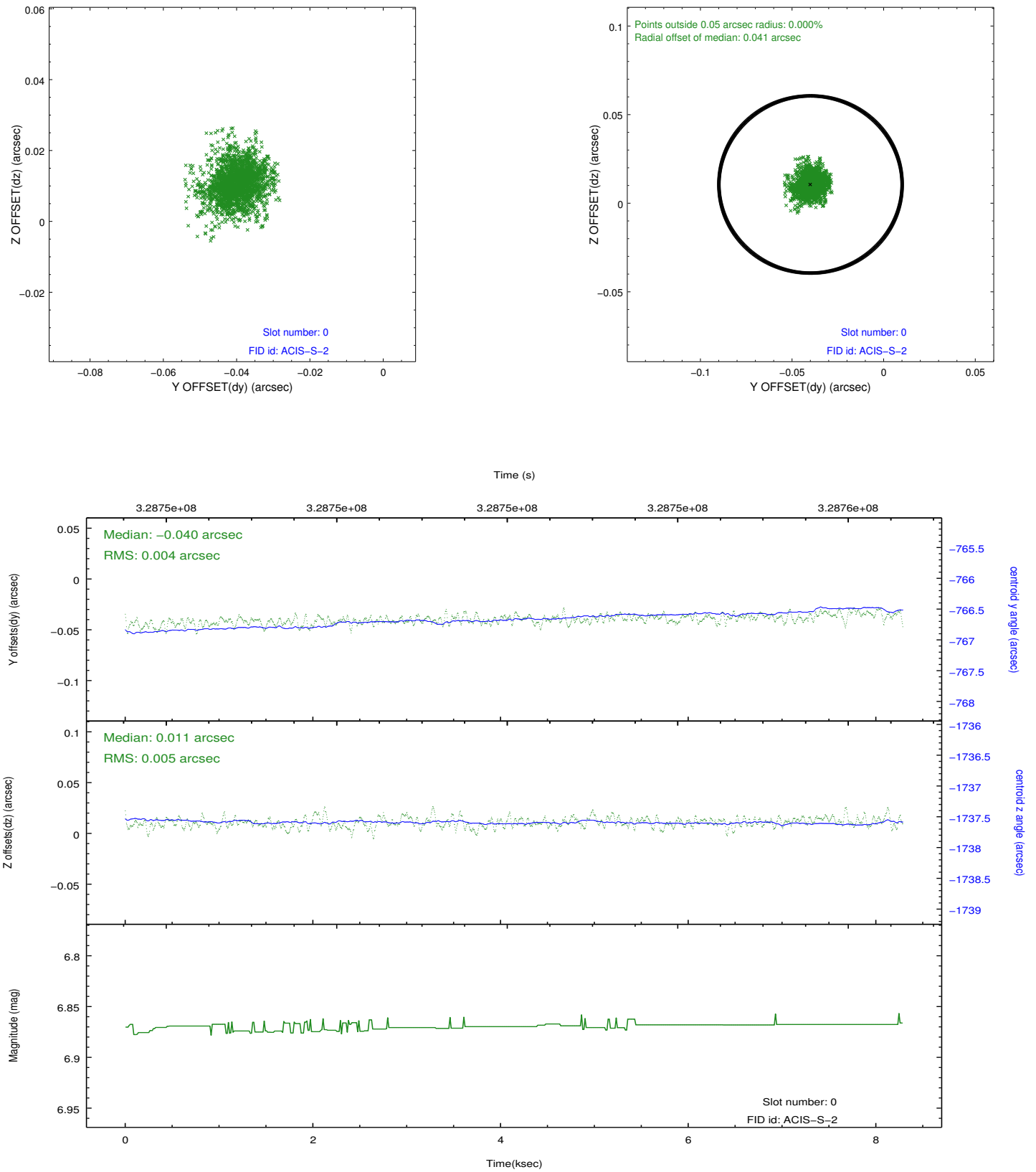


## 2.4.5 Slot 7

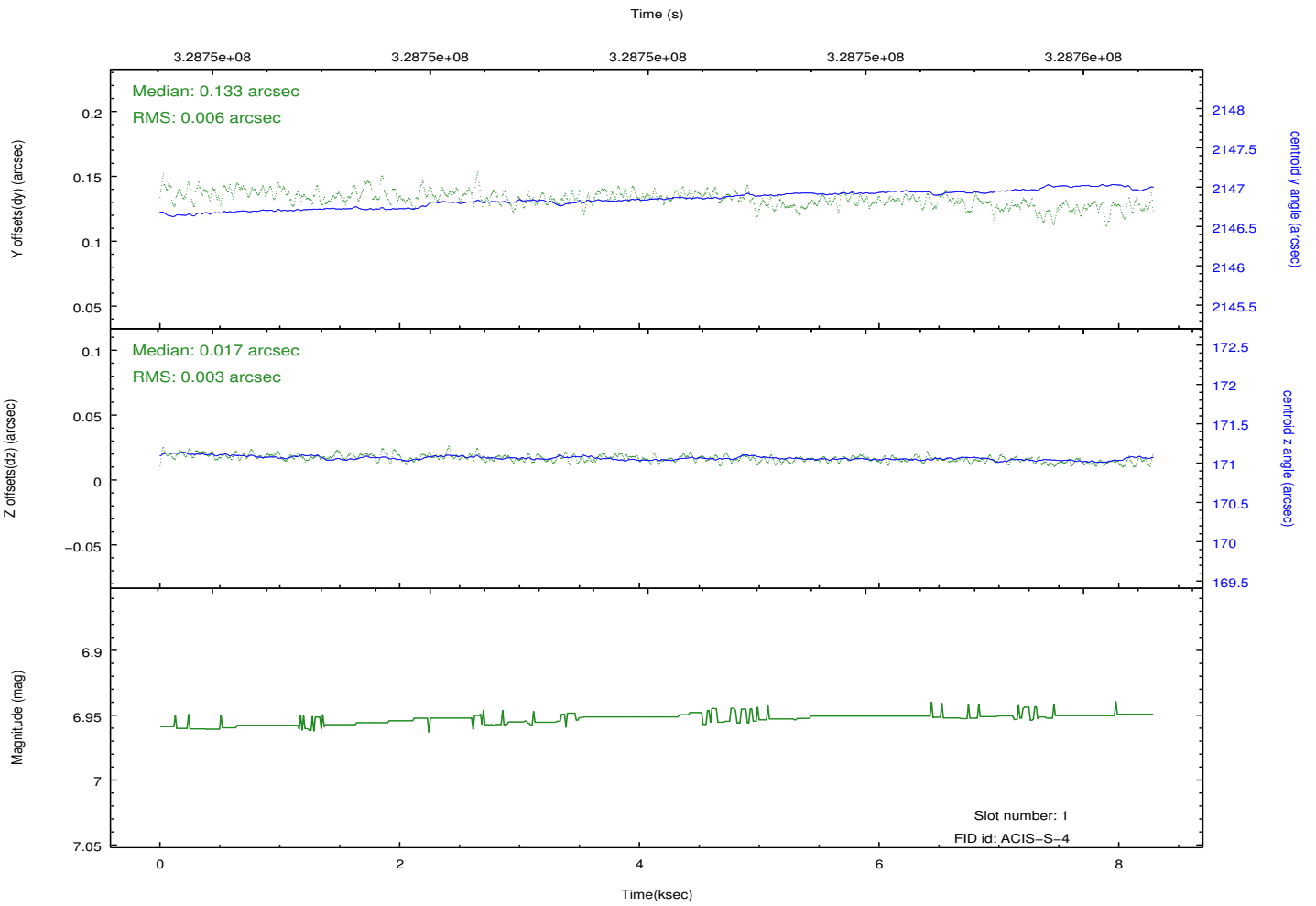
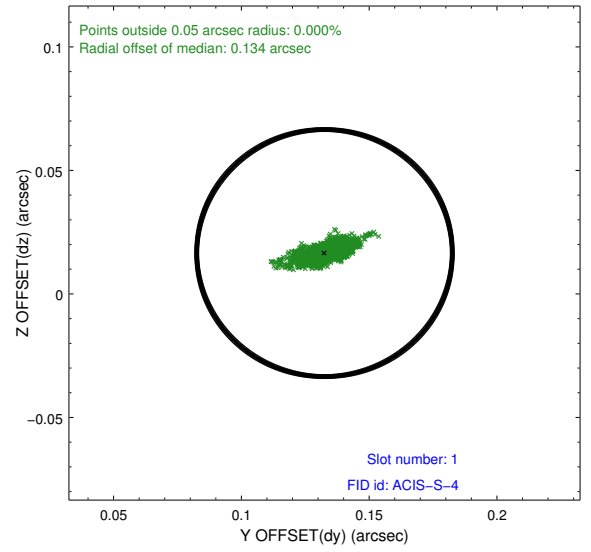
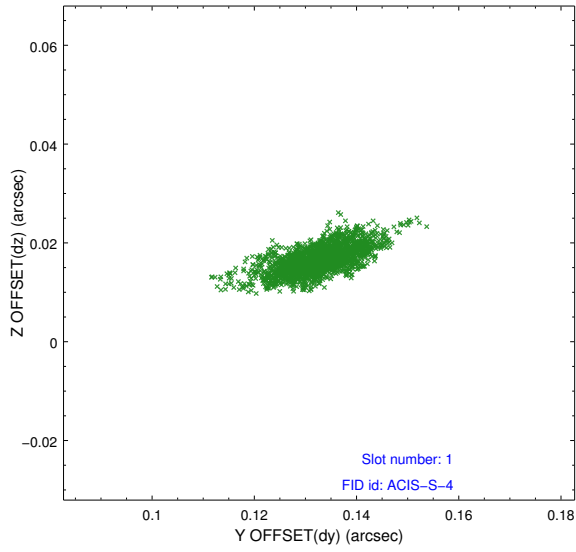


## 2.5 FID Slots

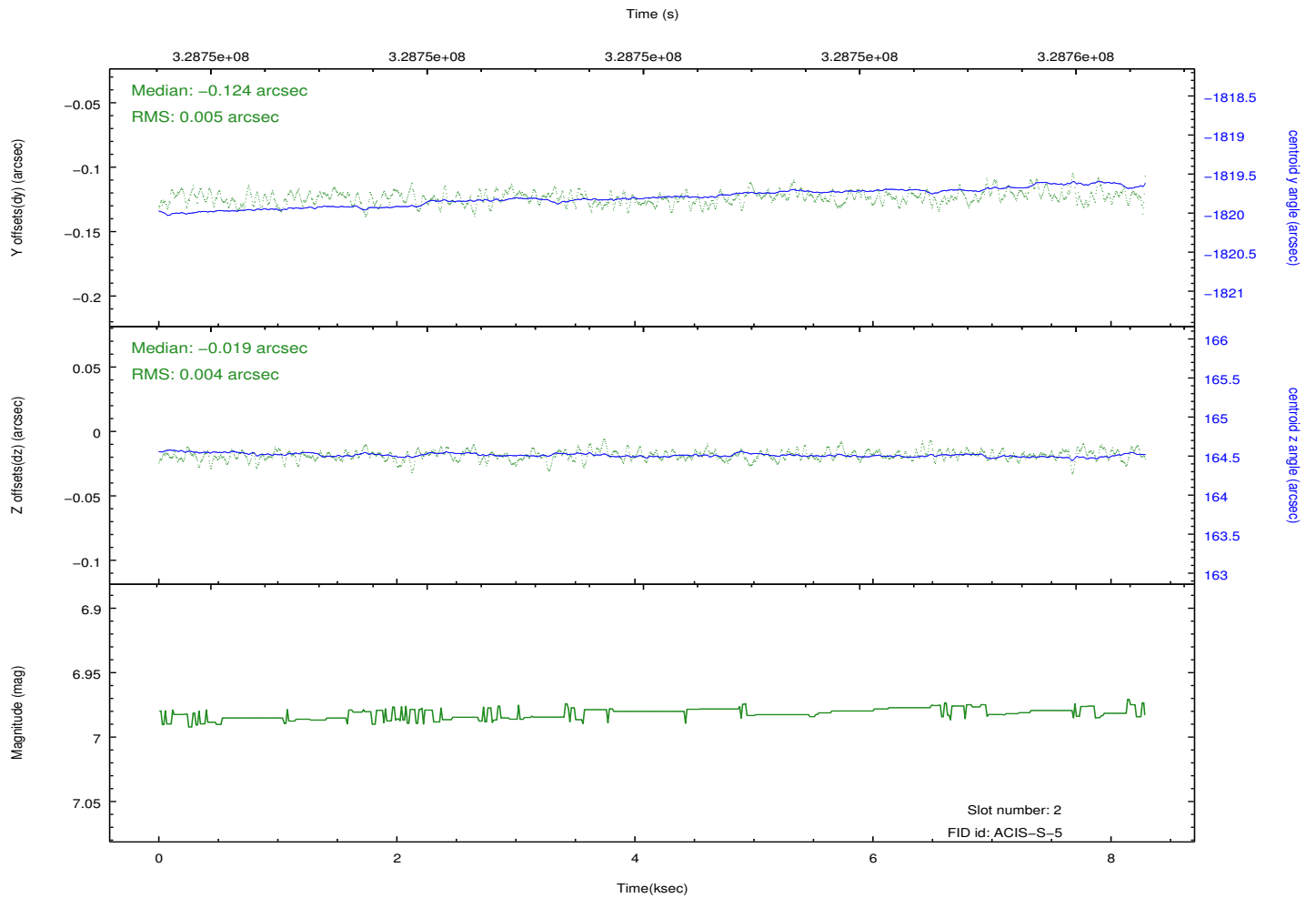
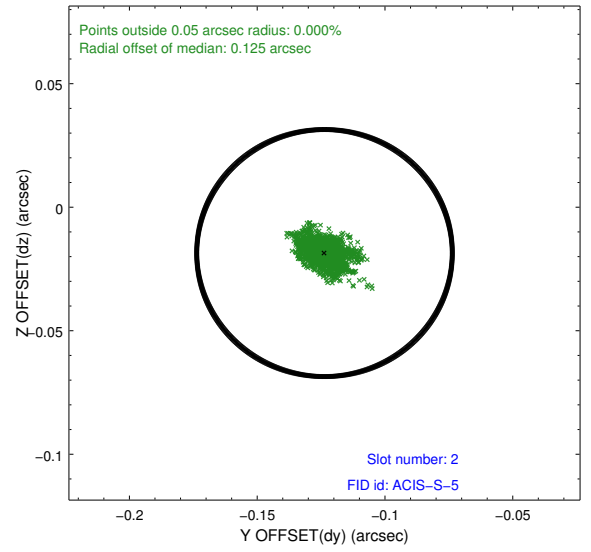
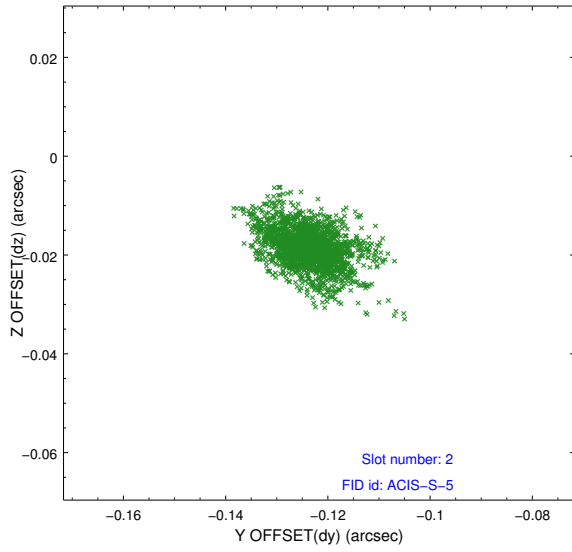
### 2.5.1 Slot 0



## 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)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.04760006

## A.2 Comments