

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5266 - L2 Version 3  
Chandra X-Ray Center

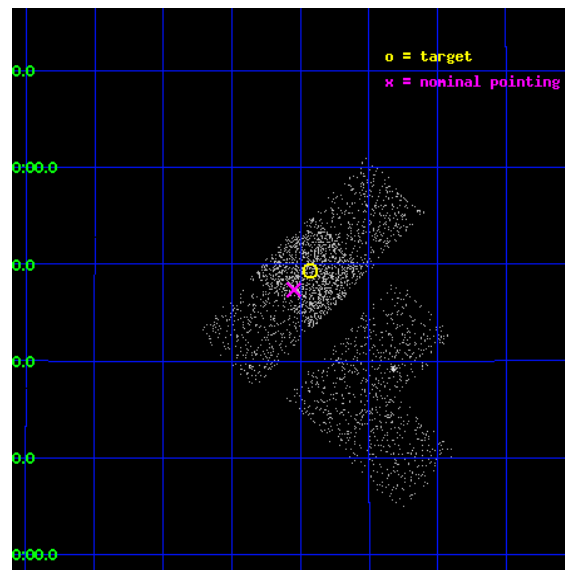
L2 Processing Date : Nov 8 2012

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# 1 Front

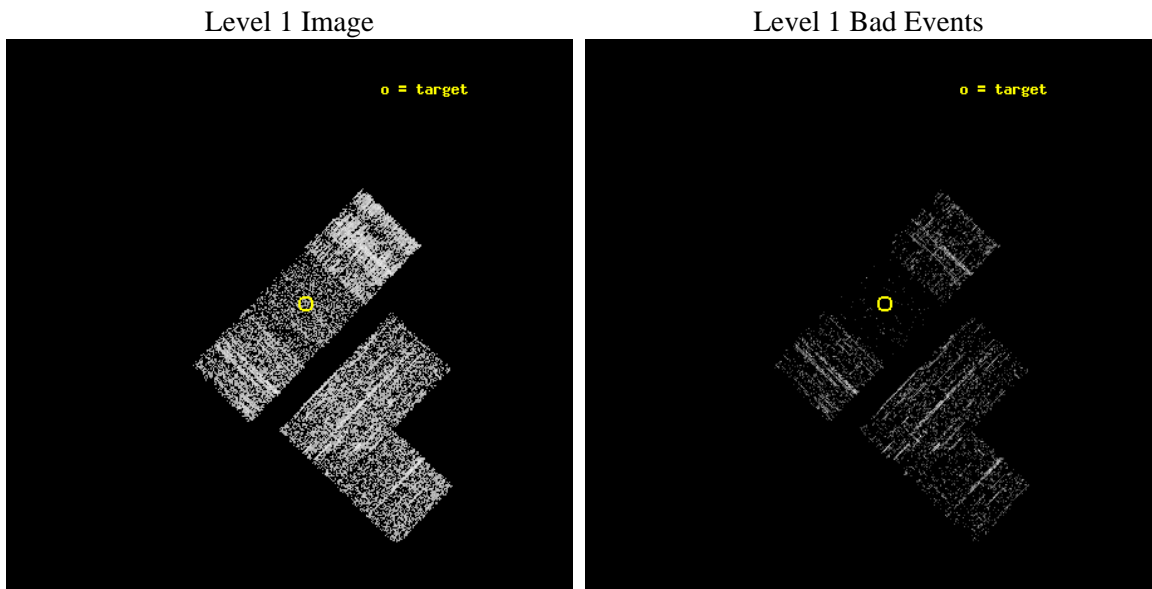
seq_num	100051	Sequence number
obs_id	5266	Observation id
title	High Resolution Imaging of the Source of Comet Encke's X-Rays Over One Nuclear Rotation	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	2P/Encke (2003)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.73185	Observer's specified target RA [deg]
dec_targ	16.82169	Observer's specified target Dec [deg]
ra_nom	287.76188007773	Nominal RA [deg]
dec_nom	16.789466836846	Nominal Dec [deg]
roll_nom	314.14793646963	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1471.9999945164	Sum of GTIs [s]
livetime	1453.3606442538	Livetime [s]
ontime0	1471.9999945164	Sum of GTIs [s]
ontime2	1471.9999945164	Sum of GTIs [s]
ontime3	1471.9999945164	Sum of GTIs [s]
ontime6	1471.9999945164	Sum of GTIs [s]
ontime7	1471.9999945164	Sum of GTIs [s]
ontime8	1471.9999945164	Sum of GTIs [s]
l2events	3172	Number of level 2 events



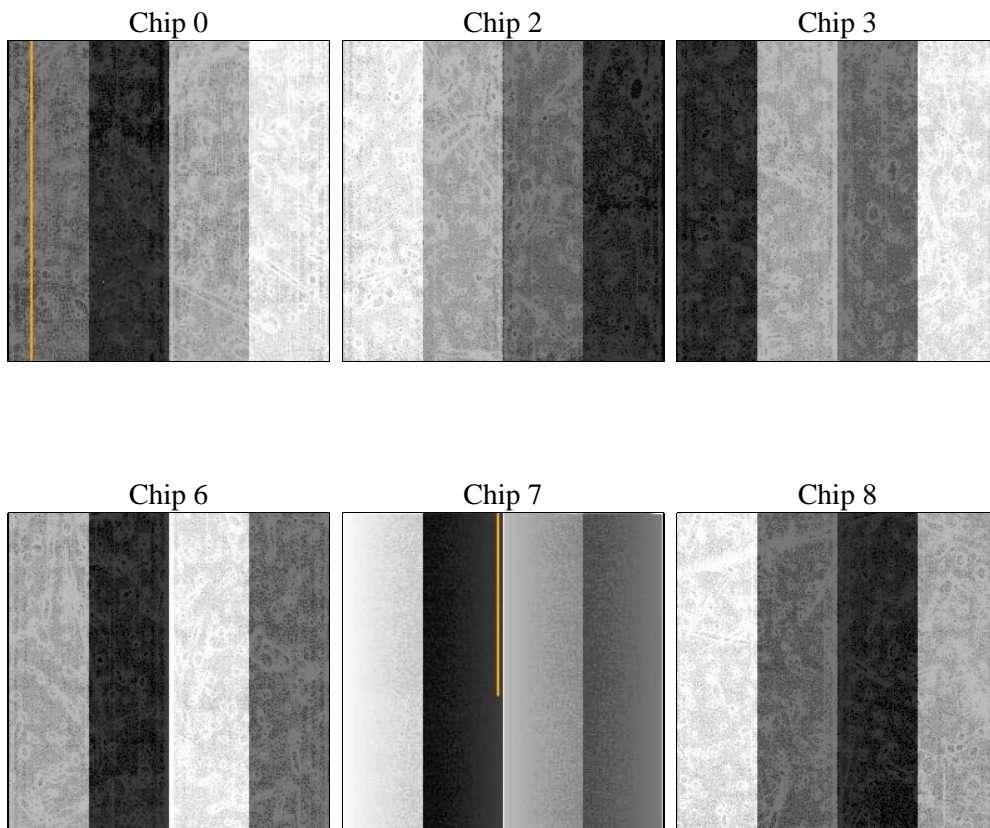
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1290.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1471.9999945164	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	1471.9999945164	Sum of GTIs [s]
date	2012-11-08T02:29:06	Date and time of file creation	ontime2	1471.9999945164	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	1471.9999945164	Sum of GTIs [s]
			ontime6	1471.9999945164	Sum of GTIs [s]
			ontime7	1471.9999945164	Sum of GTIs [s]
			ontime8	1471.9999945164	Sum of GTIs [s]
			l1events	39653	Number of level 1 events

### 2.1.4 Events

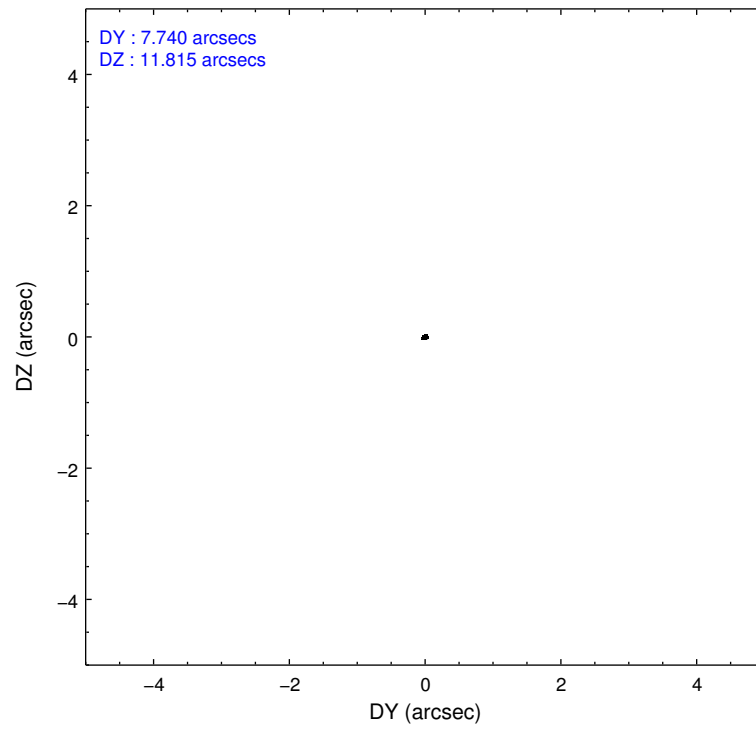
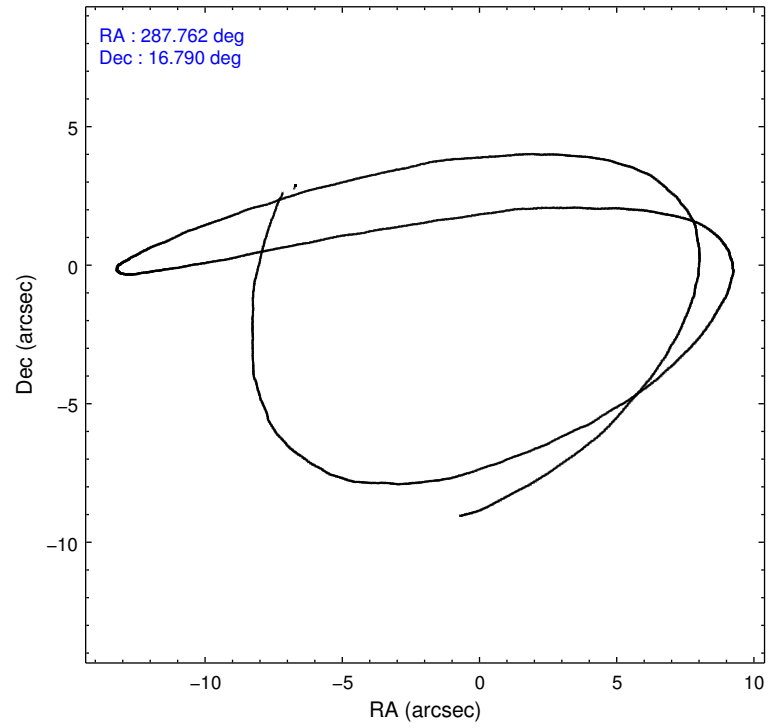
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5292	7495	5671	6930	2518	11747
rejected events	4822	6906	5302	6423	1010	7107
rejected %	91%	92%	93%	92%	40%	60%

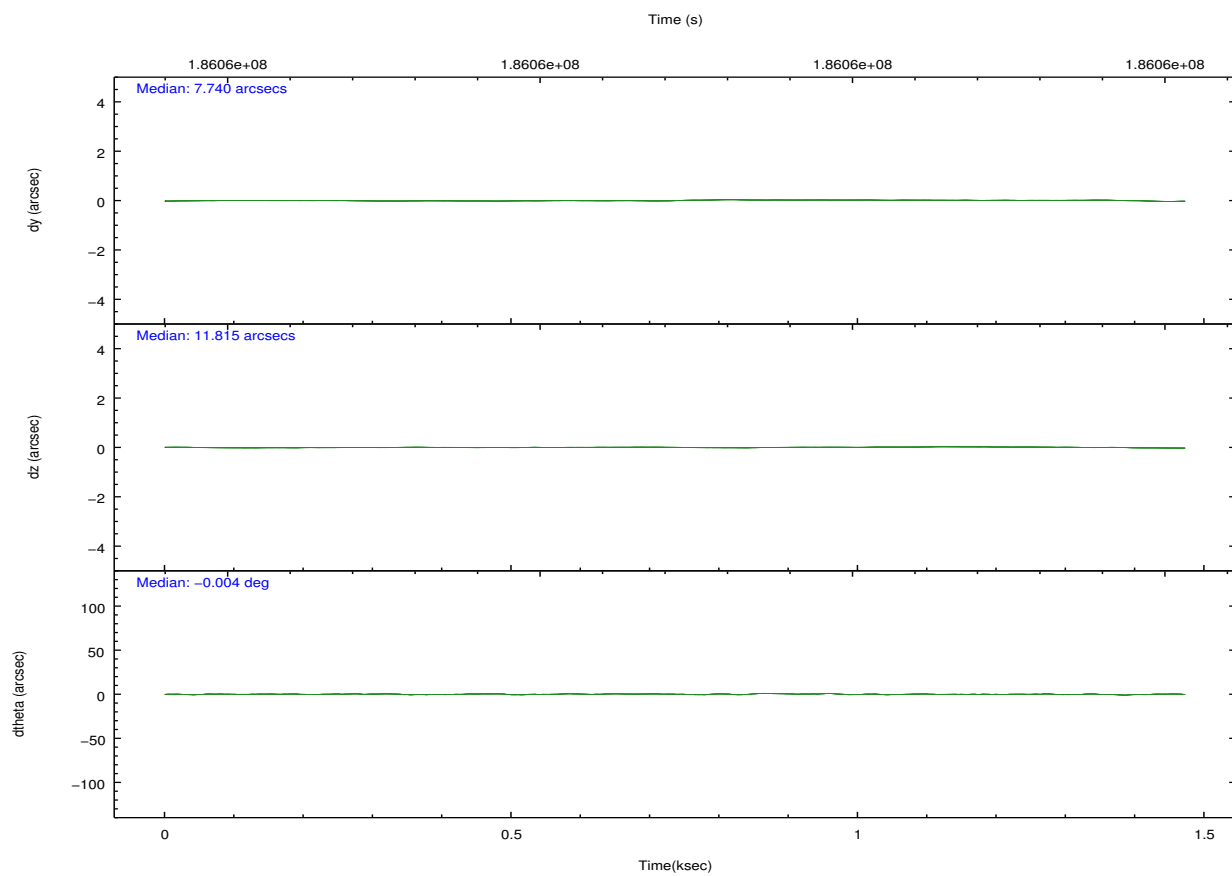
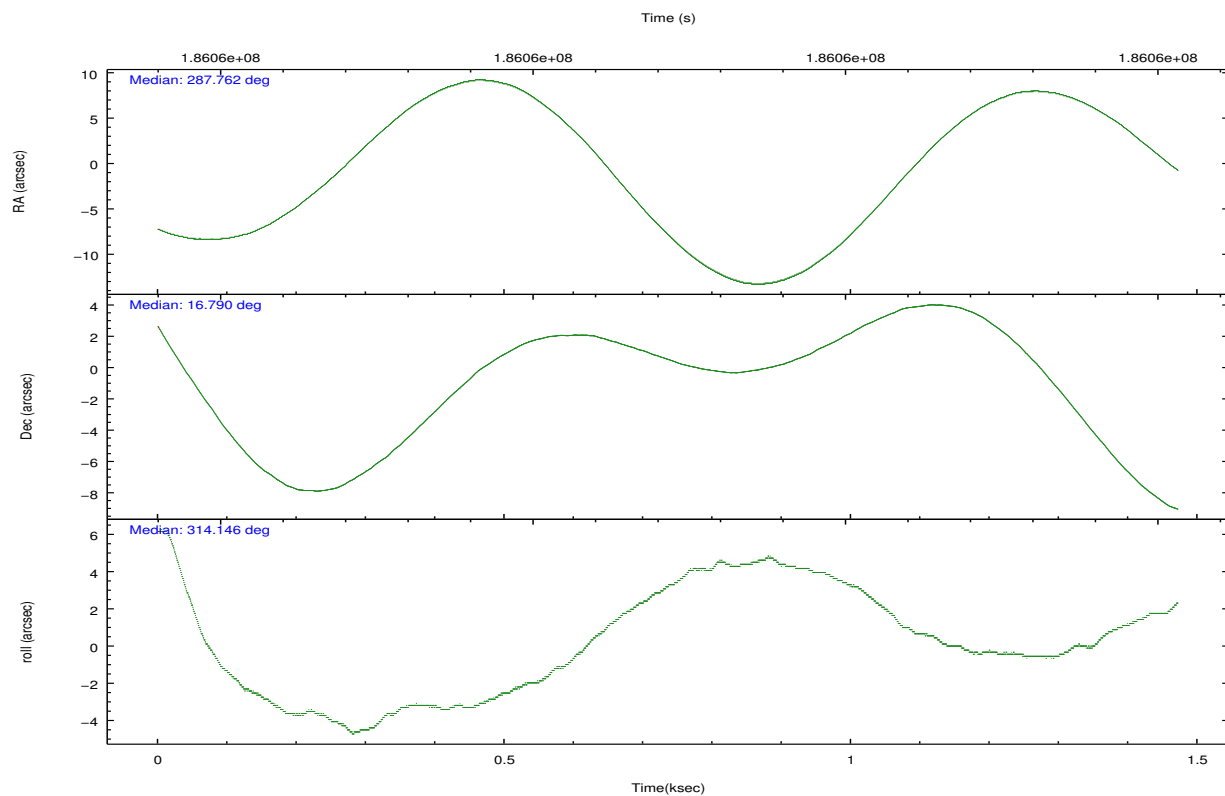
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	266	326	241	303	375	1802
	5%	4%	4%	4%	14%	15%
grade 1 events	2	2	2	2	6	17
	0%	0%	0%	0%	0%	0%
grade 2 events	165	176	86	156	489	956
	3%	2%	1%	2%	19%	8%
grade 3 events	56	60	43	56	206	945
	1%	0%	0%	0%	8%	8%
grade 4 events	48	80	45	48	185	897
	0%	1%	0%	0%	7%	7%
grade 5 events	64	61	59	57	190	164
	1%	0%	1%	0%	7%	1%
grade 6 events	43	87	45	62	584	1265
	0%	1%	0%	0%	23%	10%
grade 7 events	4648	6703	5150	6246	483	5701
	87%	89%	90%	90%	19%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-023678	ACIS-023678	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	287.734228	287.7618800777269	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.796777	16.78946683684603	Alternating exposures requested	N	N
[deg] Pointing Roll	313.999310	314.1479364696262	[s] Primary exposure time	0.000000	3.2
[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)	186060664.184000	186060287.6322			
Observation start date	2003-11-24T11:30:00	2003-11-24T11:24:47			
[s] Observation end time (MET)	186061954.184000	186062087.53228			
Observation end date	2003-11-24T11:51:30	2003-11-24T11:54:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect





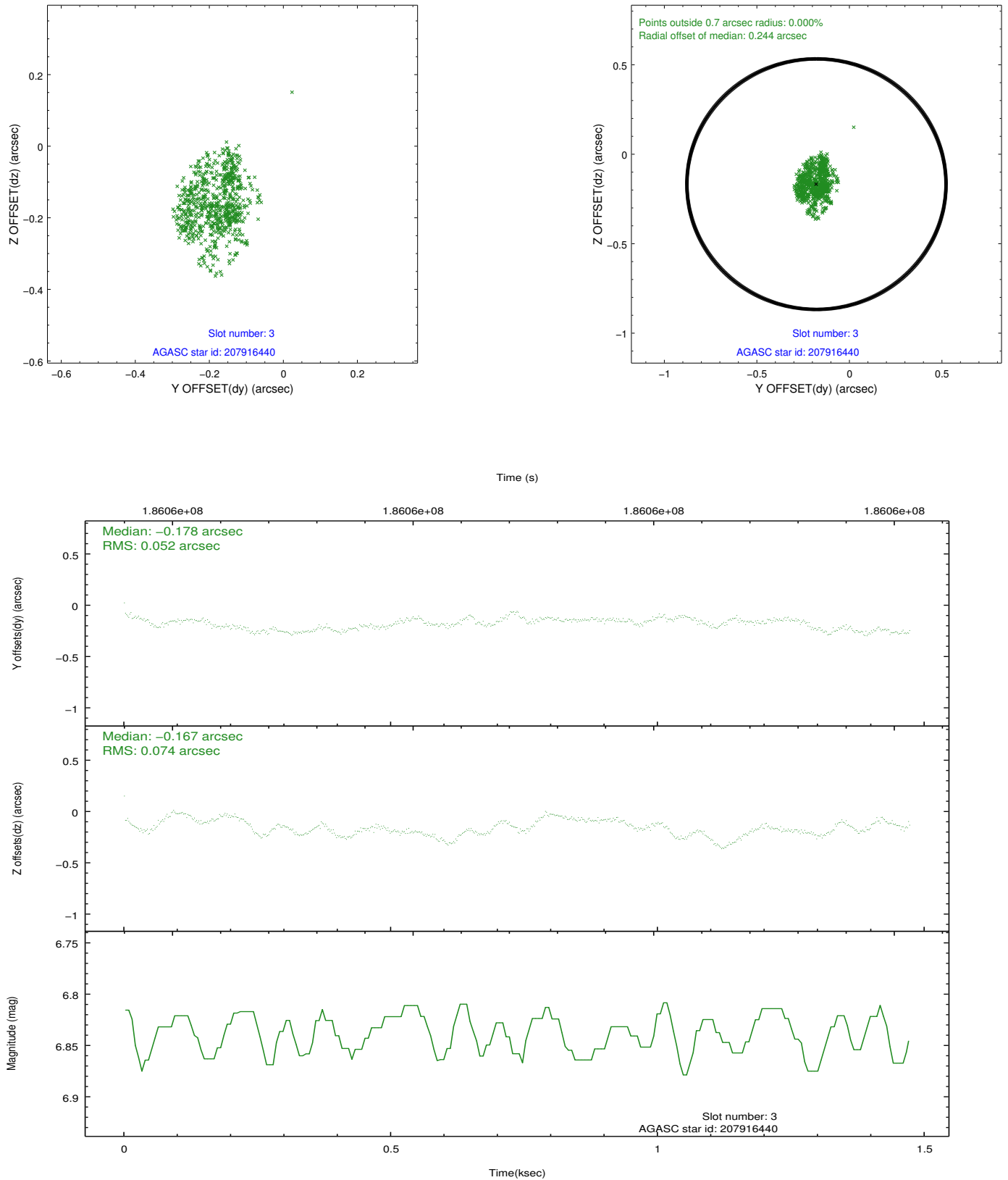
### Slot Statistics

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	360	-0.013	-0.012	0.007	0.013	0.000000	0.000000	-760.52	-1733.12
1	FID	ACIS-S-4	7.20	360	0.046	0.010	0.006	0.010	0.000000	0.000000	2150.77	170.74
2	FID	ACIS-S-5	7.23	359	-0.065	0.011	0.007	0.010	0.000000	0.000000	-1807.63	169.51
3	GUIDE	207916440	6.84	719	-0.178	-0.167	0.098	0.149	287.167522	16.851310	-1500.23	-1266.58
4	GUIDE	208416976	8.33	719	-0.149	0.061	0.100	0.144	287.326965	17.073967	-1695.33	-315.77
5	GUIDE	208421840	9.21	719	0.104	0.084	0.080	0.136	287.570311	16.918850	-711.43	-100.80
6	GUIDE	209596088	9.37	719	0.207	0.092	0.094	0.149	288.150718	16.305149	2270.19	-192.95
7	GUIDE	209585448	7.93	718	0.013	-0.068	0.062	0.098	288.114724	16.850123	774.97	1077.09

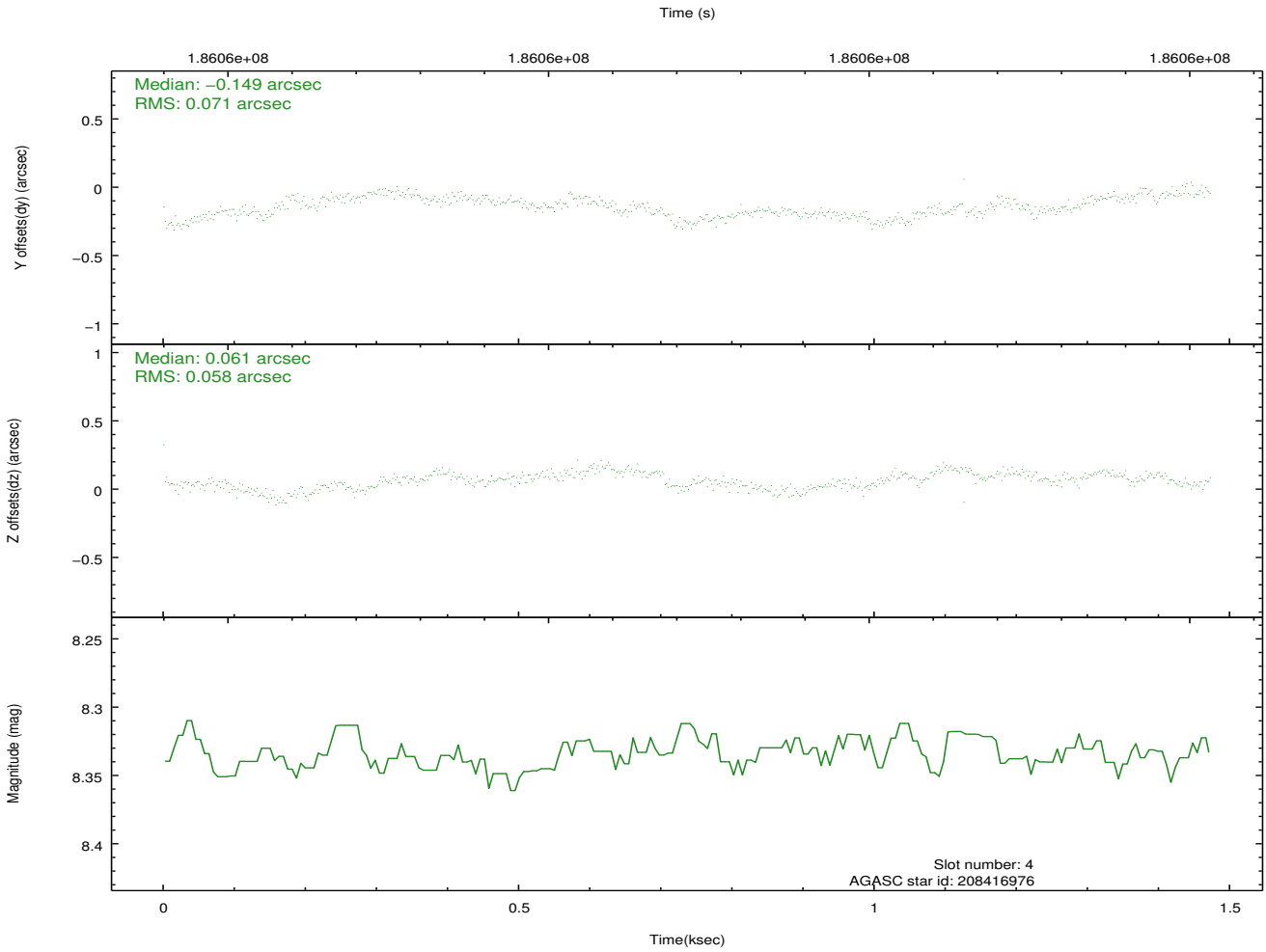
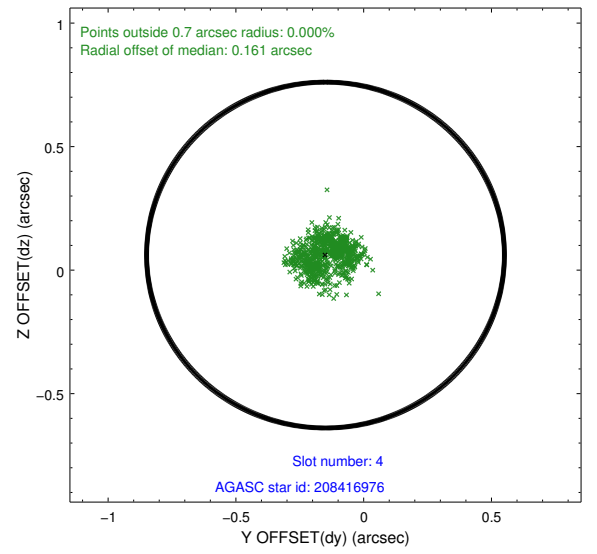
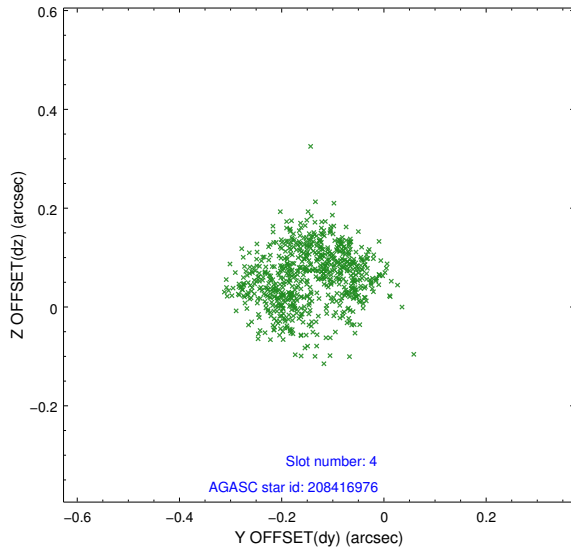


## 2.4 Star Slots

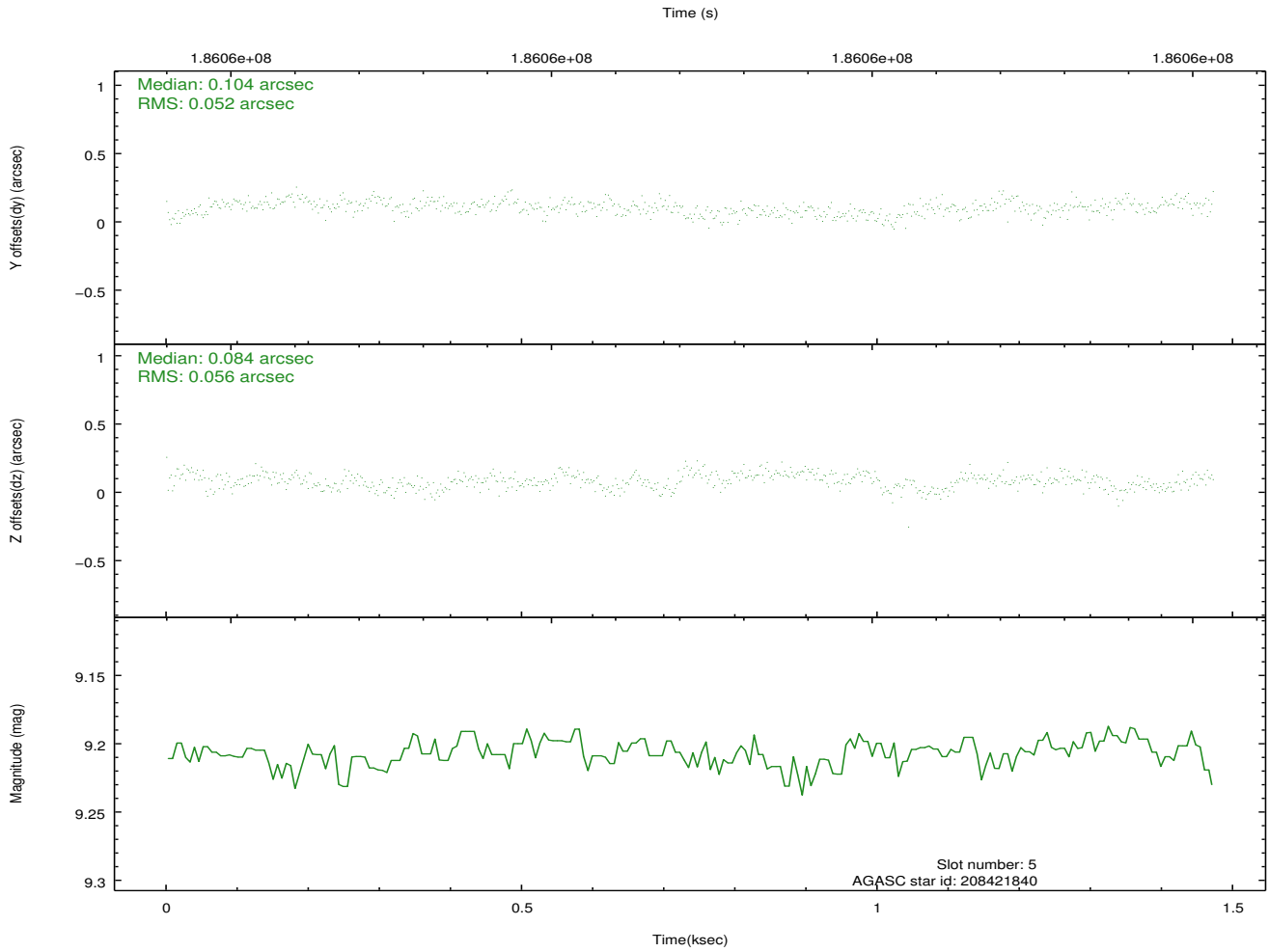
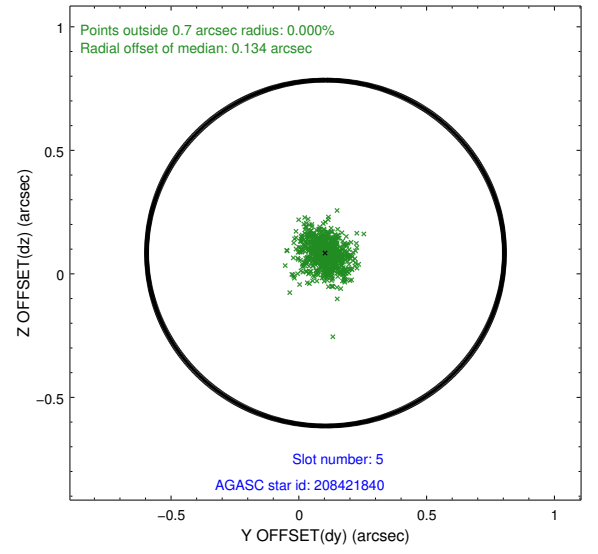
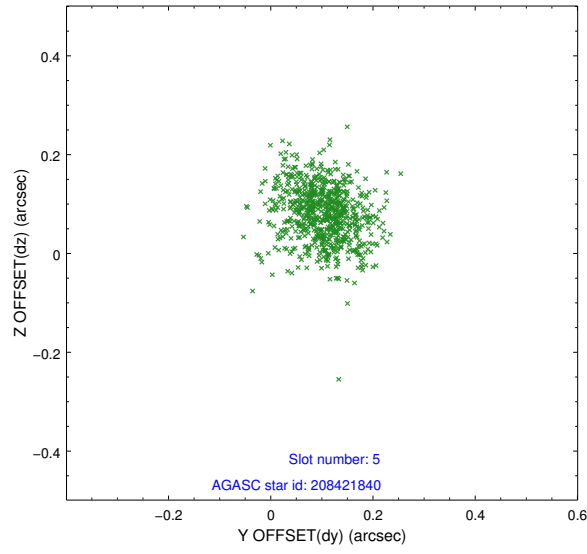
### 2.4.1 Slot 3



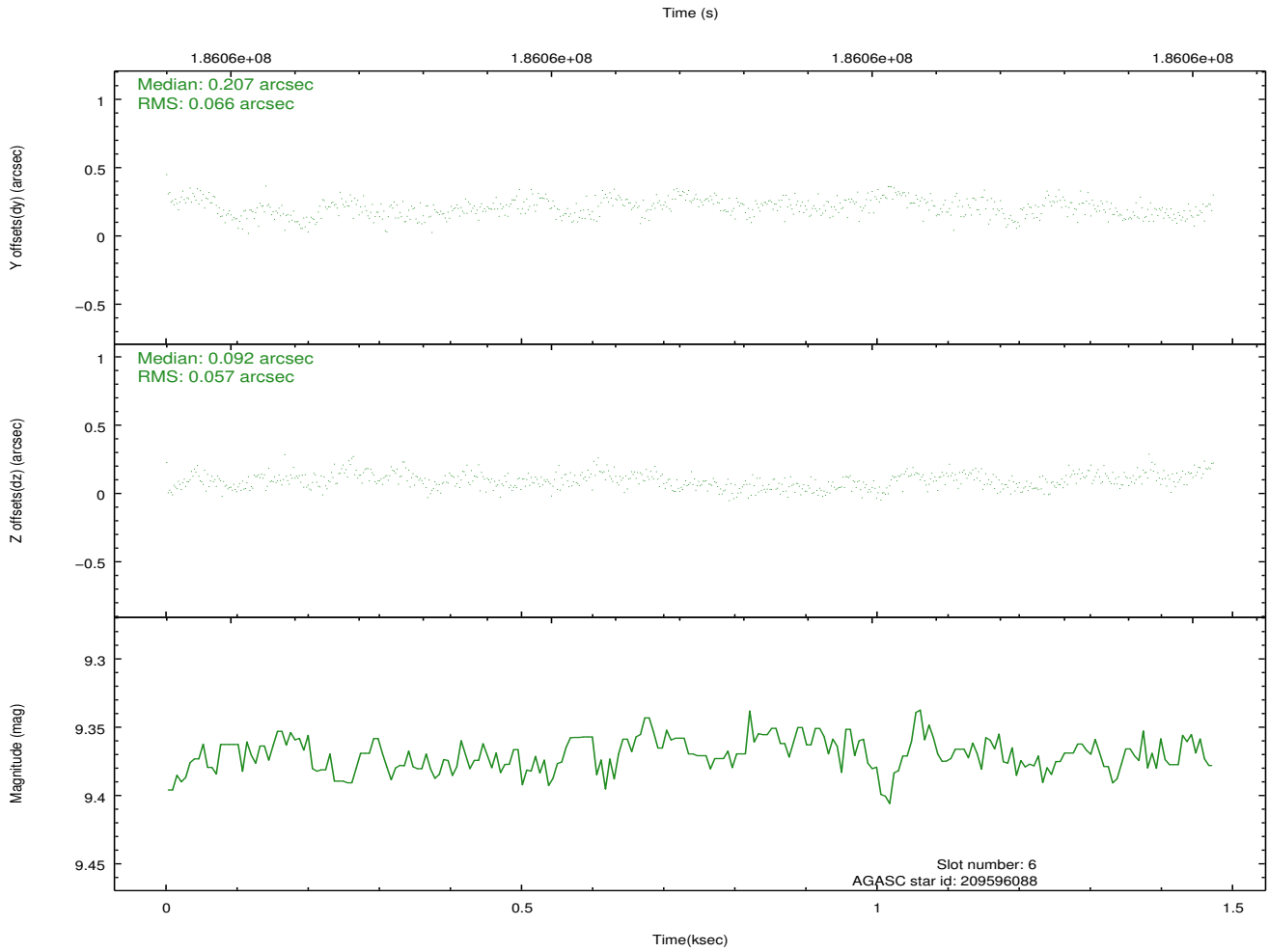
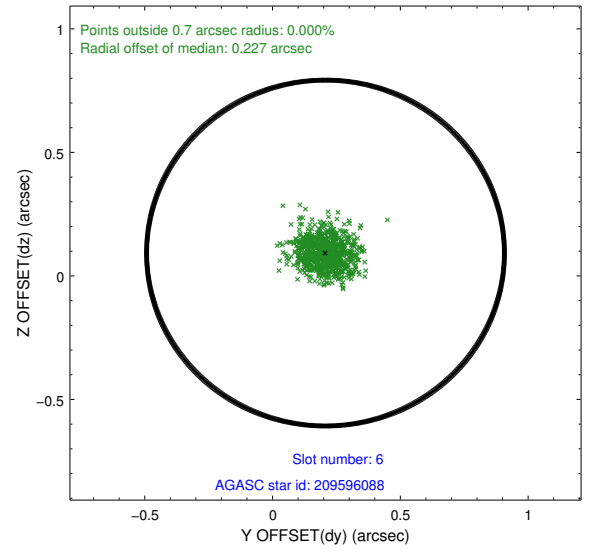
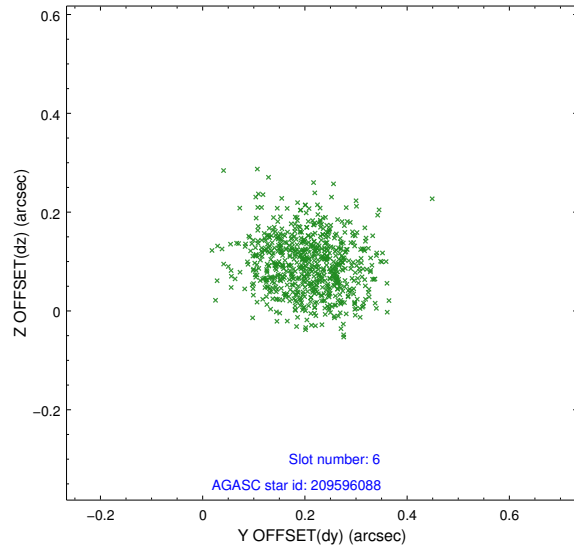
## 2.4.2 Slot 4



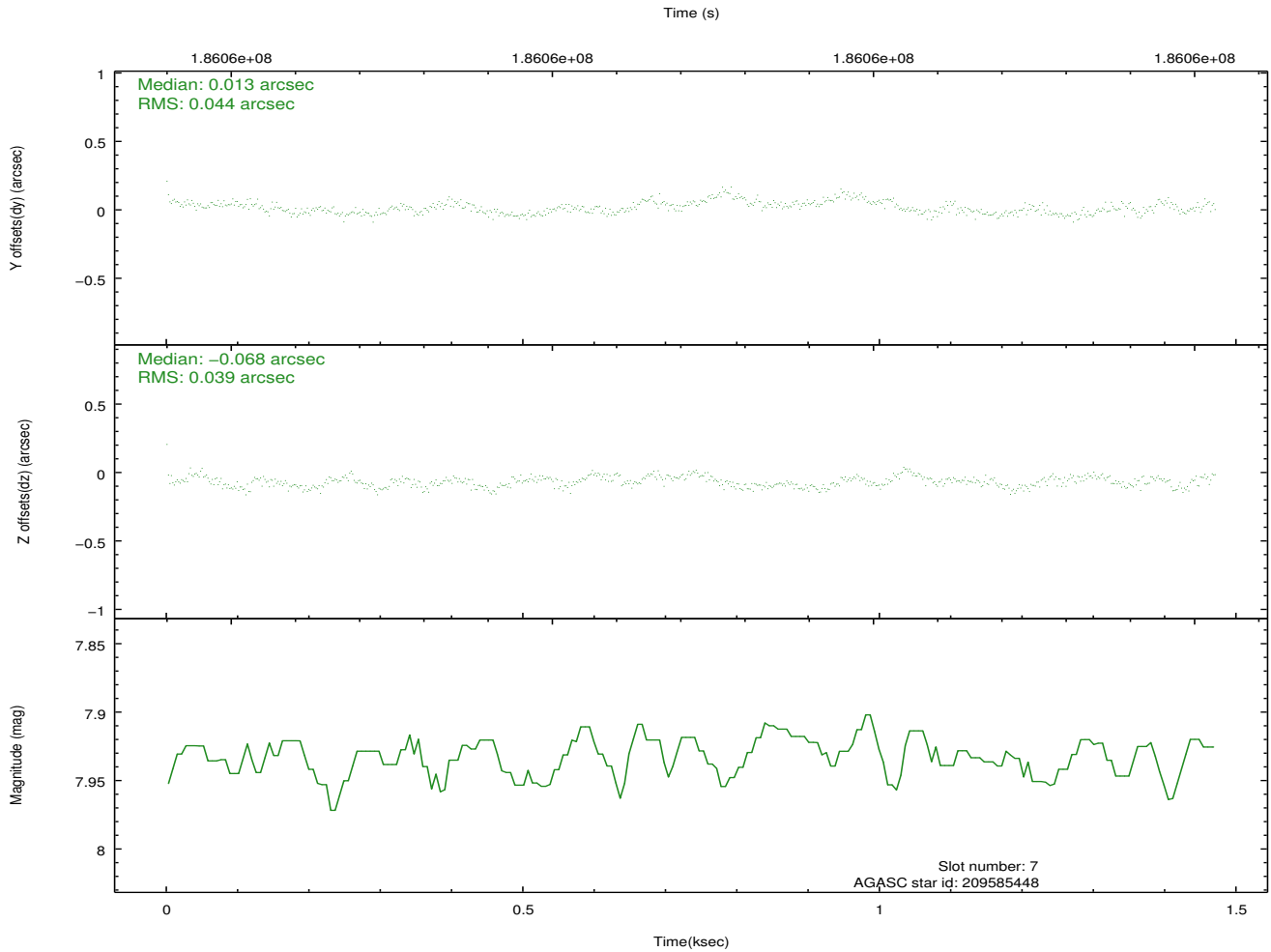
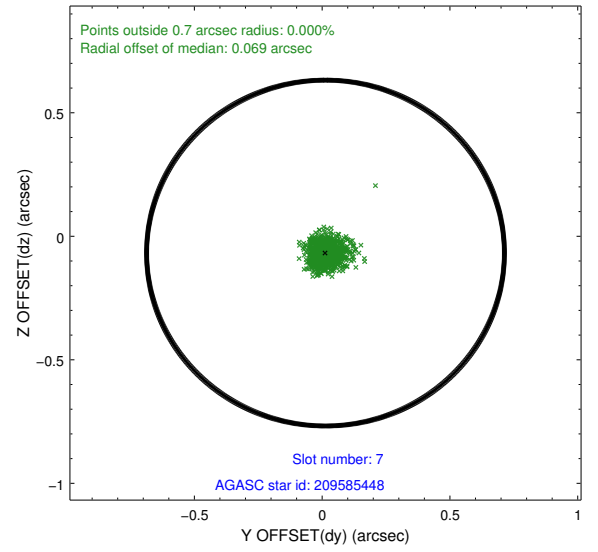
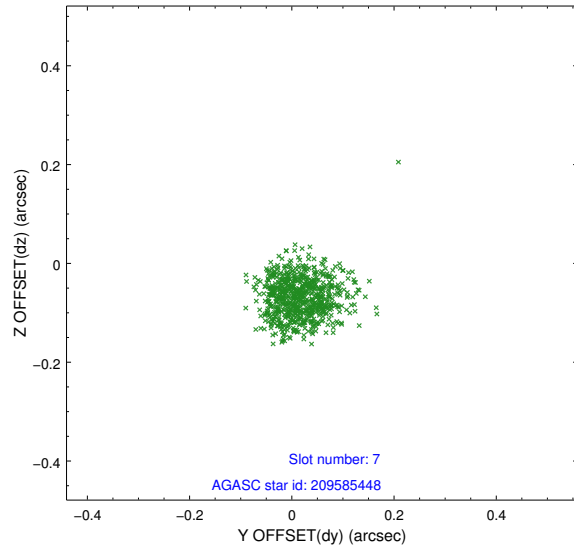
### 2.4.3 Slot 5



## 2.4.4 Slot 6

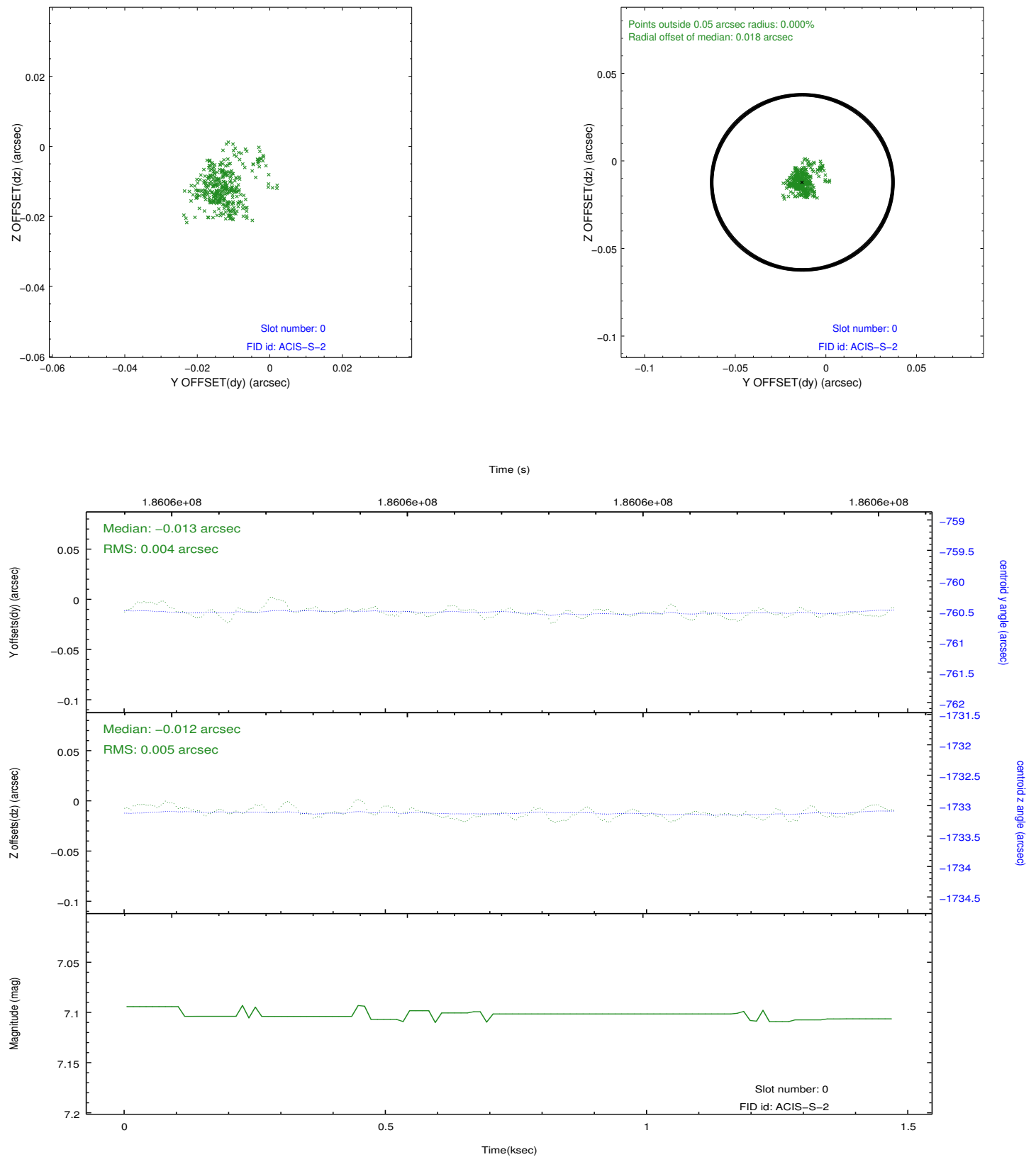


## 2.4.5 Slot 7

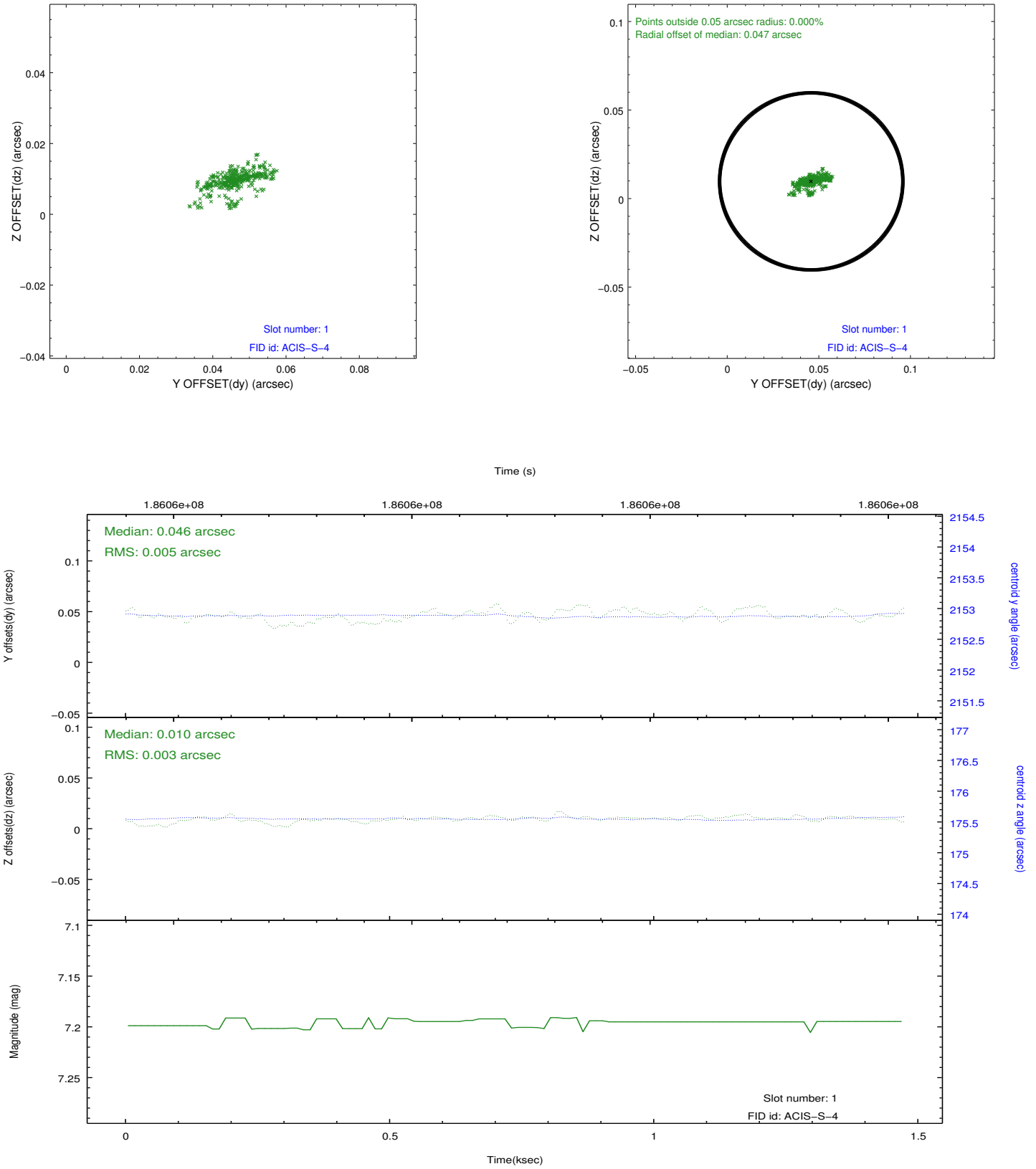


## 2.5 FID Slots

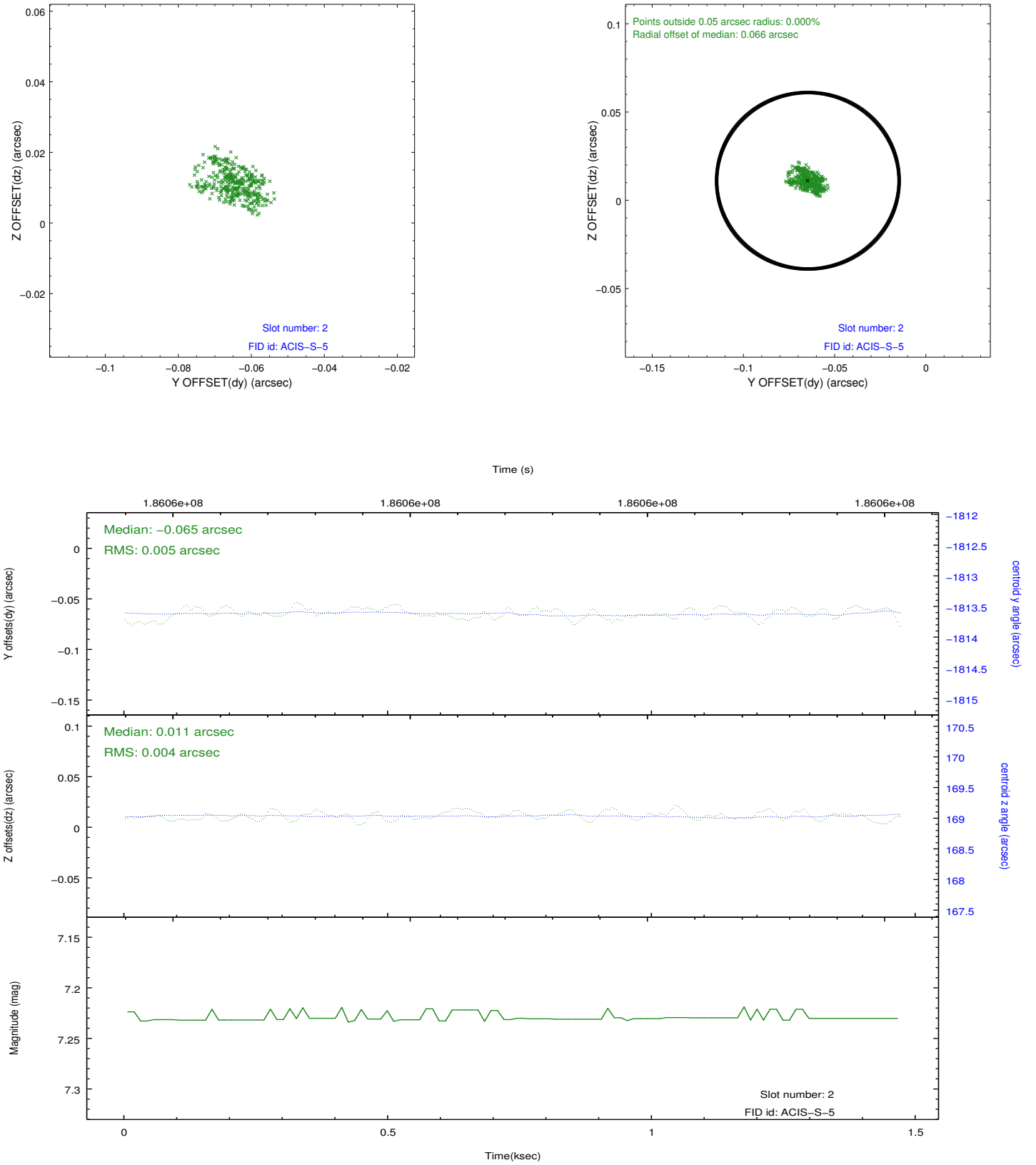
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.471

## A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.