

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5256 - L2 Version 3  
Chandra X-Ray Center

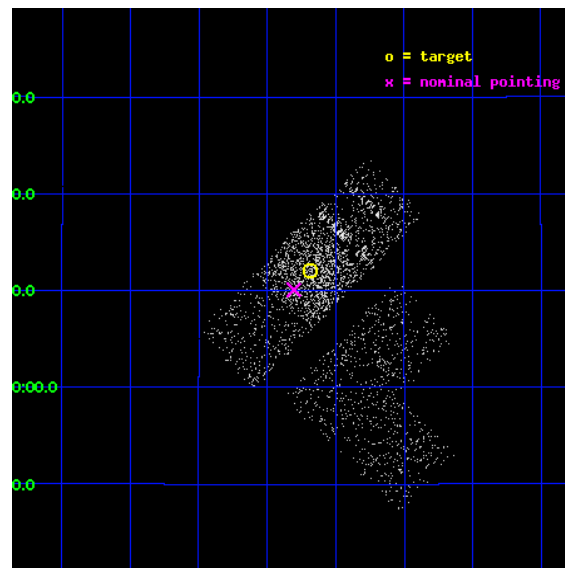
L2 Processing Date : Nov 7 2012

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# 1 Front

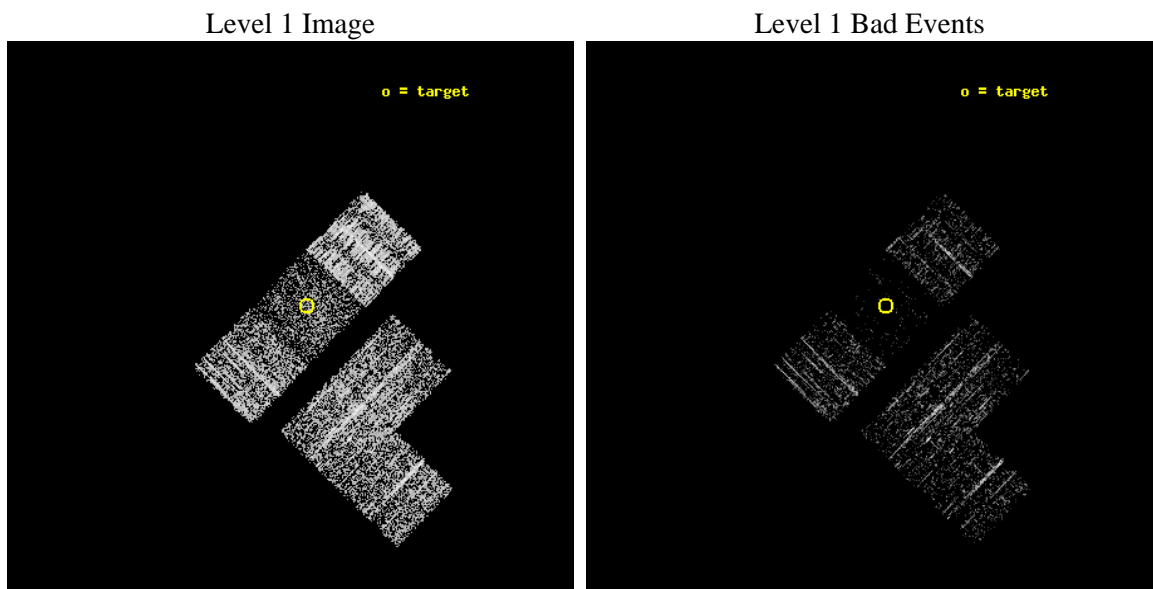
seq_num	100051	Sequence number
obs_id	5256	Observation id
title	High Resolution Imaging of the Source of Comet Encke's X-Rays Over One Nuclear Rotation	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	2P/Encke (2003)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.17115	Observer's specified target RA [deg]
dec_targ	17.20017	Observer's specified target Dec [deg]
ra_nom	288.20132670499	Nominal RA [deg]
dec_nom	17.168029672636	Nominal Dec [deg]
roll_nom	314.14777375291	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1475.1999945045	Sum of GTIs [s]
livetime	1456.5201239152	Livetime [s]
ontime0	1475.1999945045	Sum of GTIs [s]
ontime2	1475.1999945045	Sum of GTIs [s]
ontime3	1475.1999945045	Sum of GTIs [s]
ontime6	1475.1999945045	Sum of GTIs [s]
ontime7	1475.1999945045	Sum of GTIs [s]
ontime8	1475.1999945045	Sum of GTIs [s]
l2events	3341	Number of level 2 events



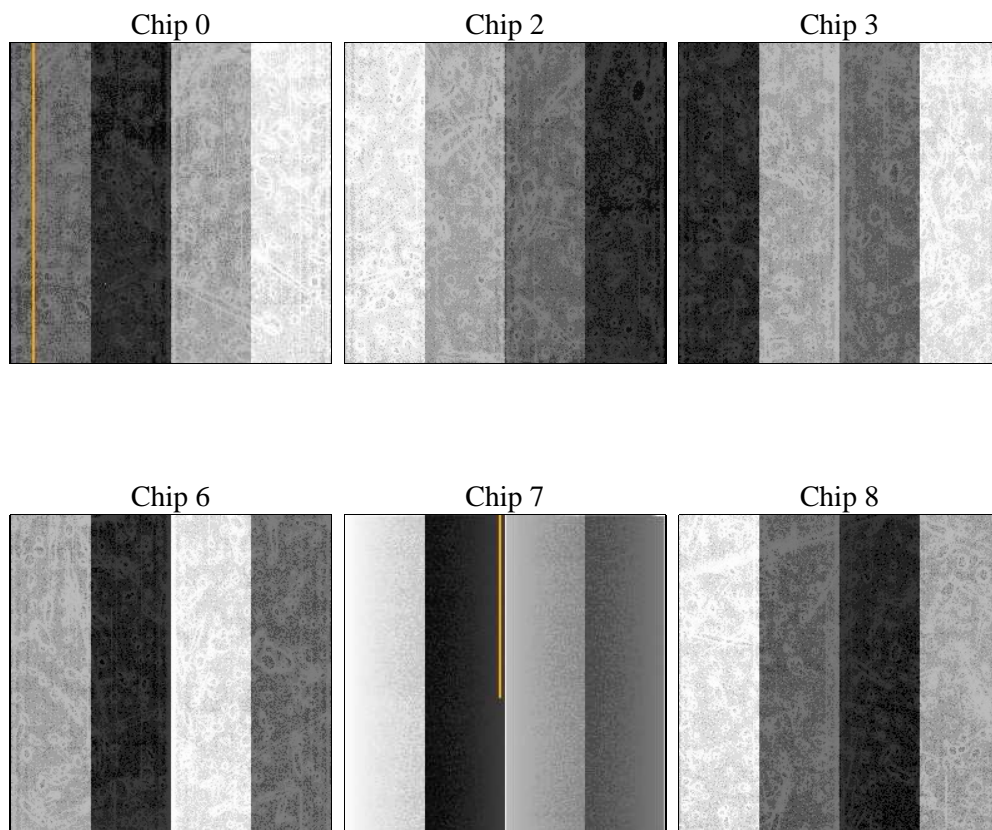
## 2 OBI

### 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	1475.1999945045	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	1475.1999945045	Sum of GTIs [s]
date	2012-11-08T02:13:03	Date and time of file creation	ontime2	1475.1999945045	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	1475.1999945045	Sum of GTIs [s]
			ontime6	1475.1999945045	Sum of GTIs [s]
			ontime7	1475.1999945045	Sum of GTIs [s]
			ontime8	1475.1999945045	Sum of GTIs [s]
			l1events	40889	Number of level 1 events

### 2.1.4 Events

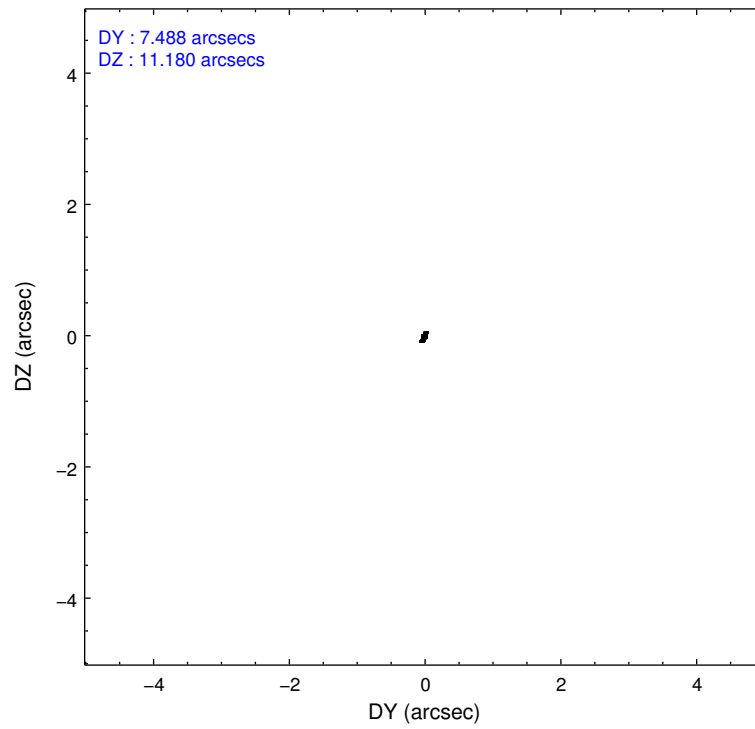
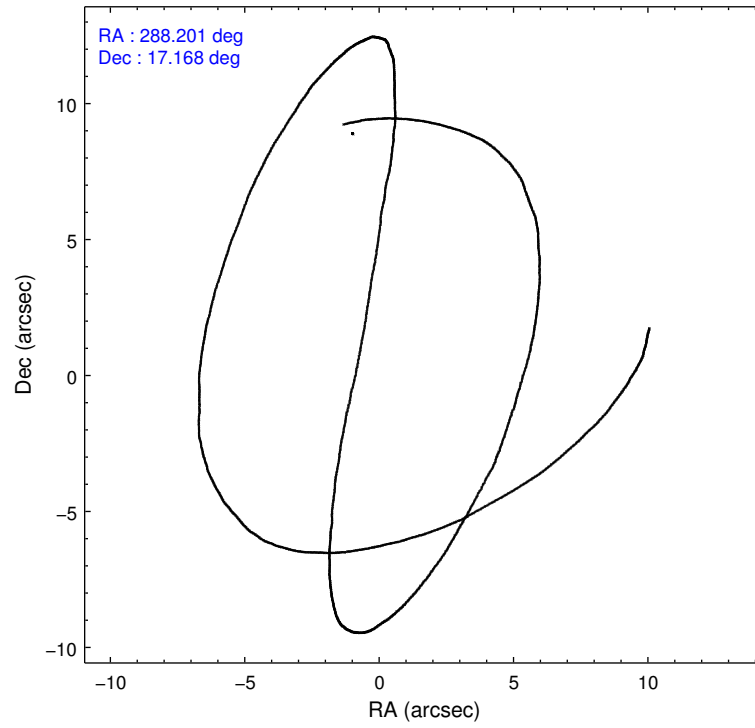
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5645	7247	6307	6937	2392	12361
rejected events	5146	6685	5952	6429	966	7021
rejected %	91%	92%	94%	92%	40%	56%

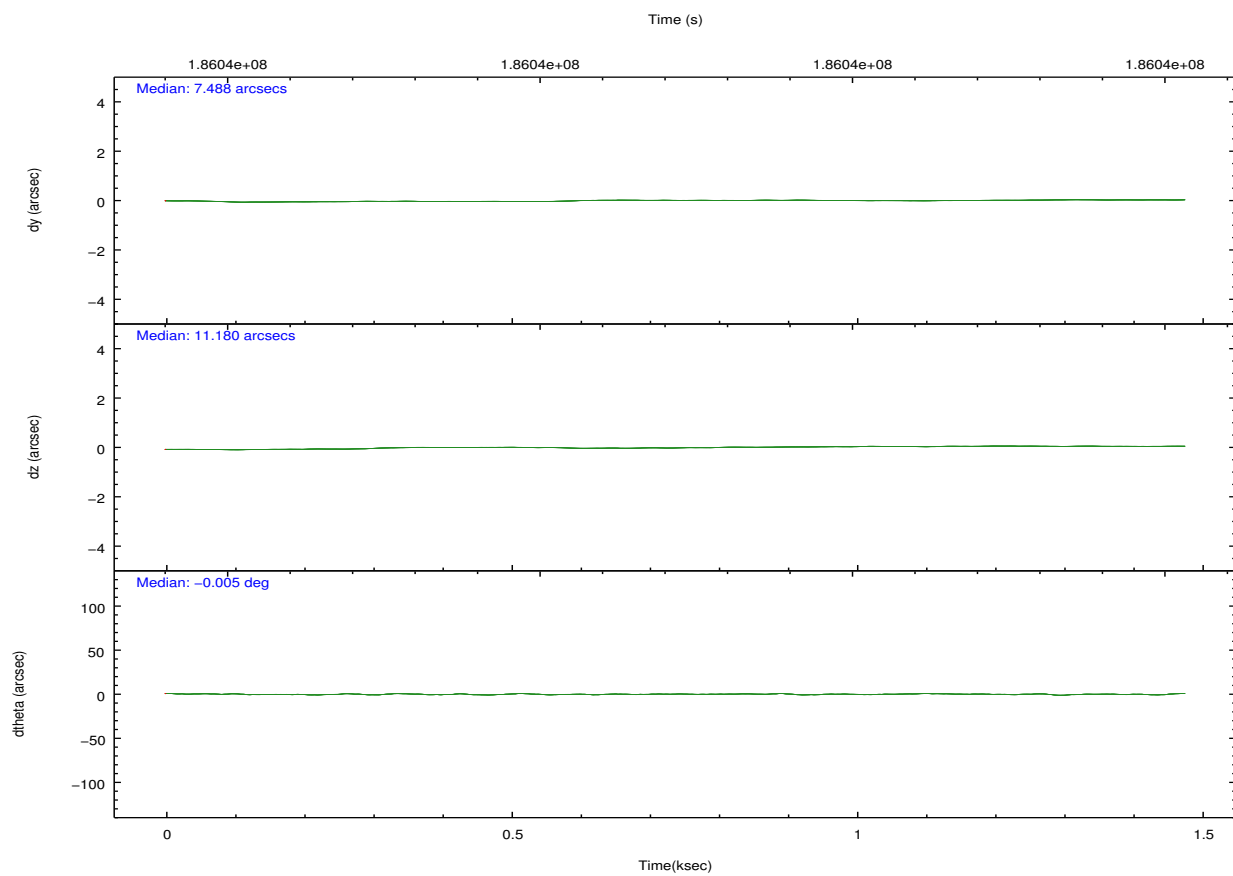
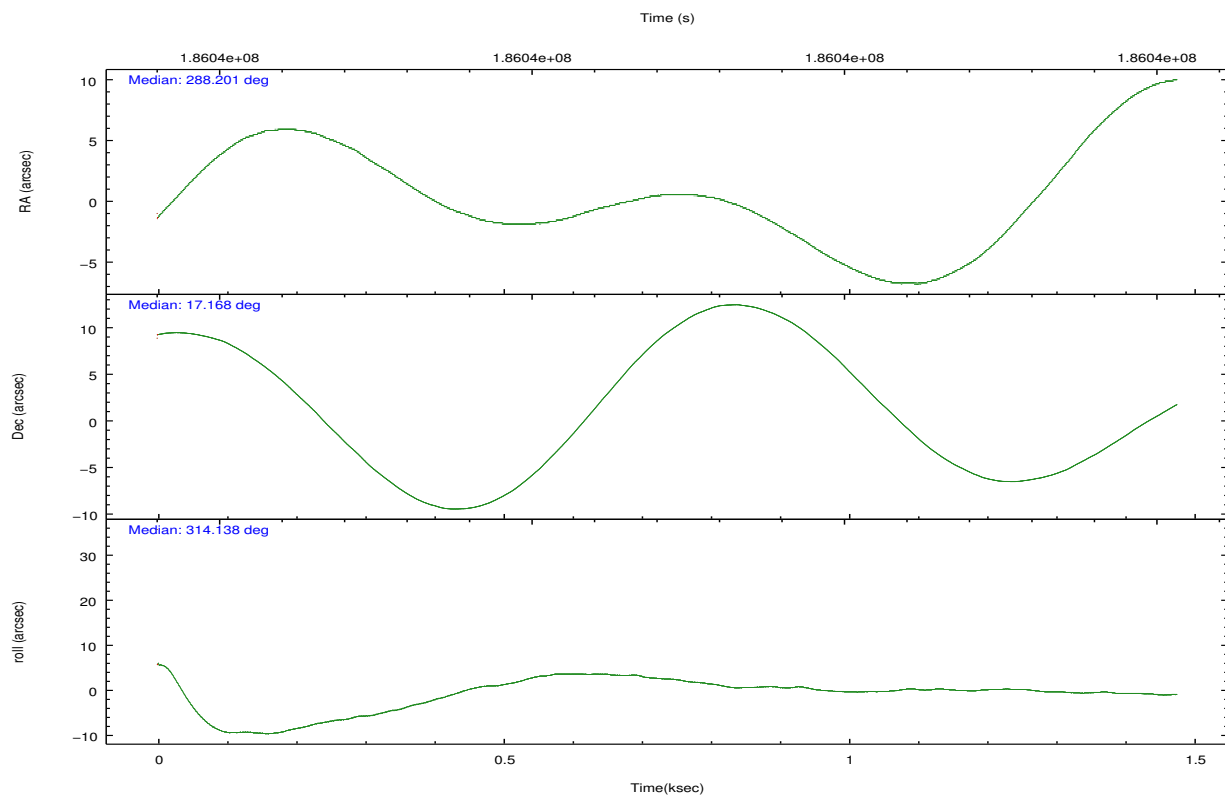
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	241	332	209	307	452	2026
	4%	4%	3%	4%	18%	16%
grade 1 events	4	2	2	1	4	12
	0%	0%	0%	0%	0%	0%
grade 2 events	176	201	76	145	505	943
	3%	2%	1%	2%	21%	7%
grade 3 events	60	42	43	65	171	1144
	1%	0%	0%	0%	7%	9%
grade 4 events	50	62	42	53	173	1008
	0%	0%	0%	0%	7%	8%
grade 5 events	53	49	55	54	159	169
	0%	0%	0%	0%	6%	1%
grade 6 events	70	69	53	47	416	1449
	1%	0%	0%	0%	17%	11%
grade 7 events	4991	6490	5827	6265	512	5610
	88%	89%	92%	90%	21%	45%

## 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	288.173532	288.2013267049913	Subarray requested	NONE	NONE
[deg] Pointing Dec	17.175262	17.16802967263623	Alternating exposures requested	N	N
[deg] Pointing Roll	313.999292	314.1477737529122	[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)	186042664.184000	186042288.63142			
Observation start date	2003-11-24T06:30:00	2003-11-24T06:24:48			
[s] Observation end time (MET)	186043954.184000	186044088.5315			
Observation end date	2003-11-24T06:51:30	2003-11-24T06:54:48			
Read mode	TIMED	TIMED			

## 2.3 Aspect



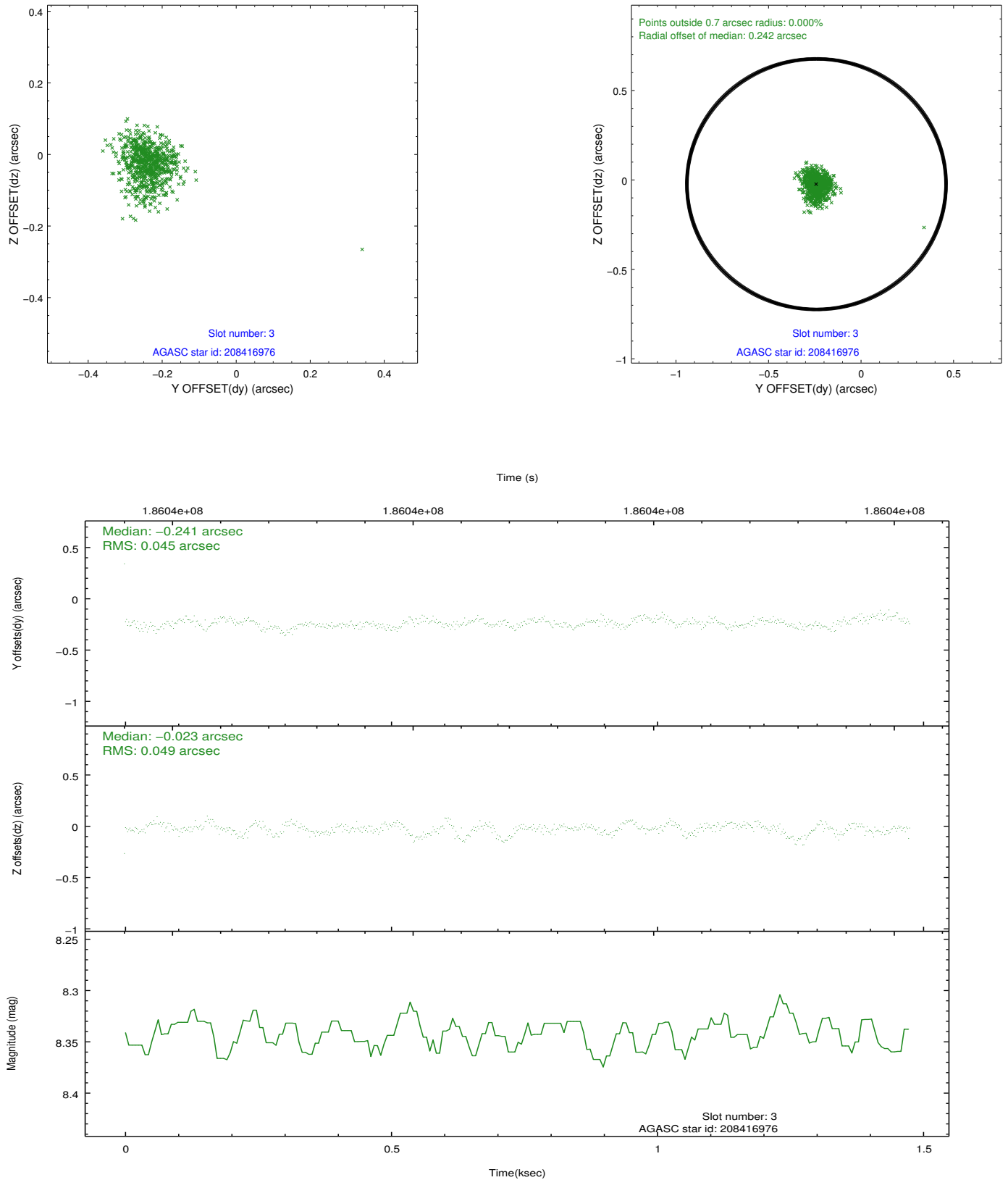


### Slot Statistics

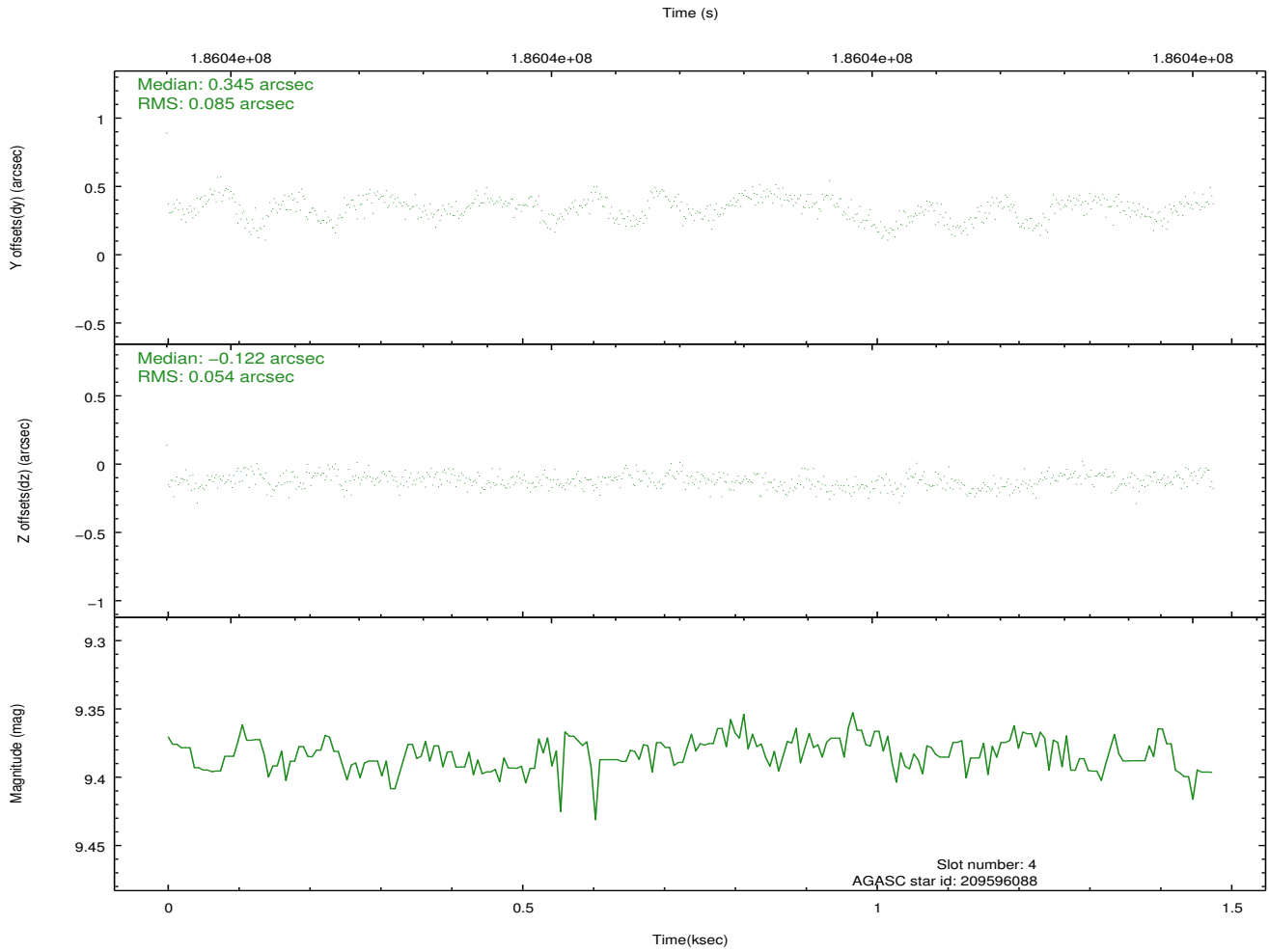
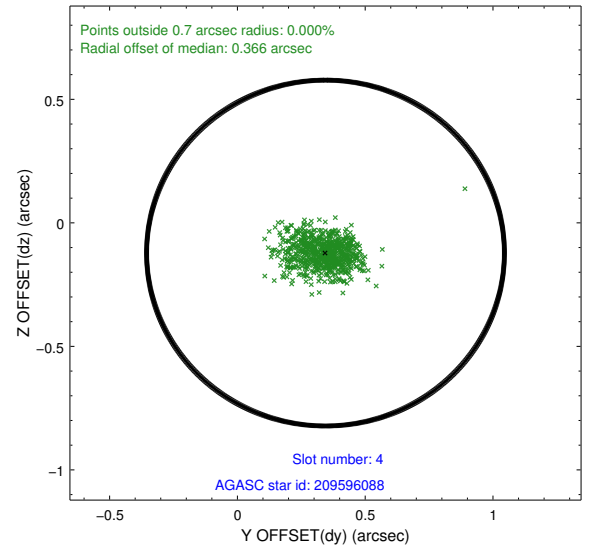
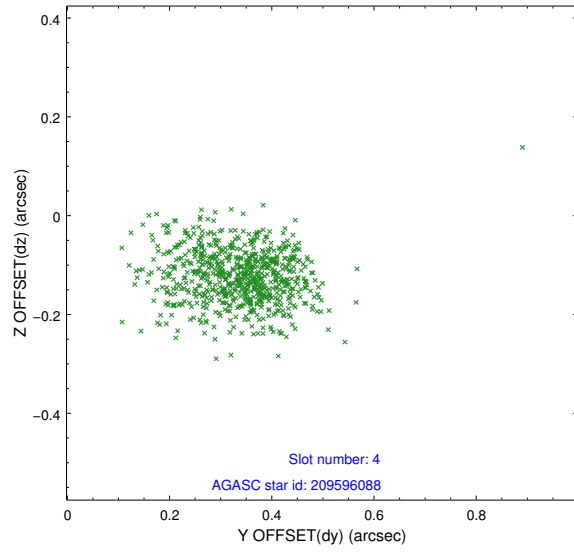
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	360	-0.034	-0.023	0.006	0.011	0.000000	0.000000	-760.26	-1732.49
1	FID	ACIS-S-4	7.20	361	0.051	0.005	0.006	0.011	0.000000	0.000000	2151.05	171.42
2	FID	ACIS-S-6	7.34	361	-0.044	0.027	0.006	0.011	0.000000	0.000000	407.44	813.91
3	GUIDE	208416976	8.34	721	-0.241	-0.023	0.068	0.108	287.326965	17.073967	-1766.57	-2345.19
4	GUIDE	209596088	9.38	721	0.345	-0.122	0.103	0.176	288.150718	16.305149	2196.12	-2235.66
5	GUIDE	210119616	7.68	717	-0.158	0.101	0.068	0.117	288.118619	18.001946	-2269.74	1928.88
6	GUIDE	210120944	8.41	721	-0.007	0.101	0.068	0.118	288.245736	17.506735	-690.29	1010.00
7	GUIDE	209585448	7.95	720	0.062	-0.047	0.061	0.095	288.114724	16.850123	700.67	-957.46

## 2.4 Star Slots

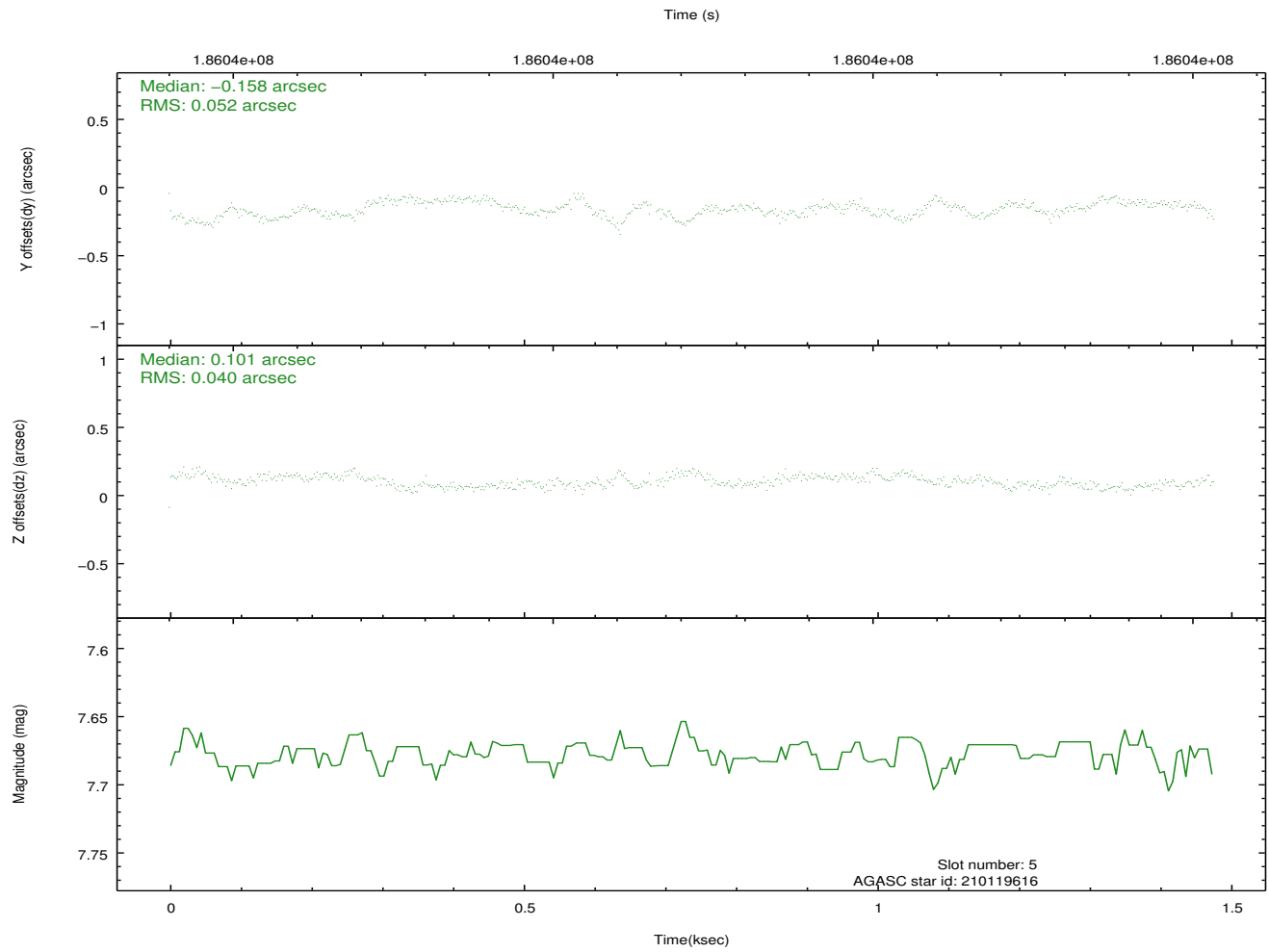
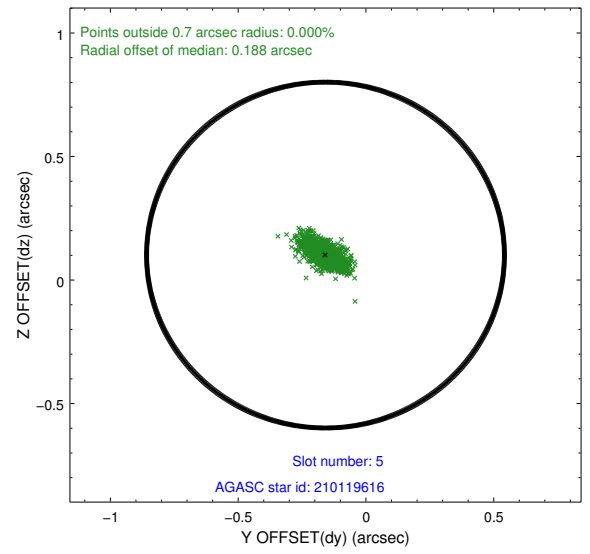
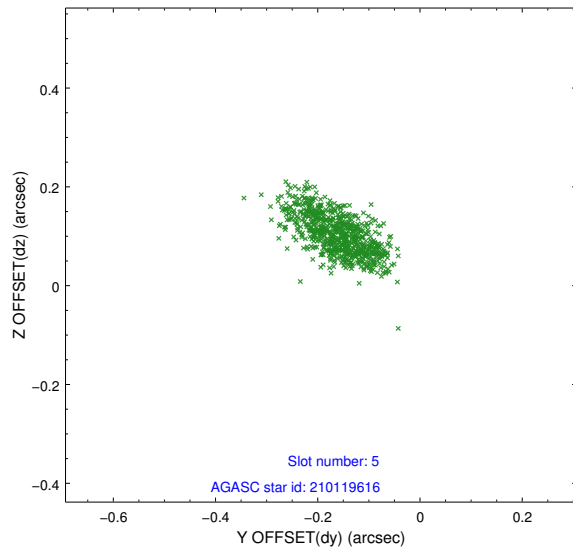
### 2.4.1 Slot 3



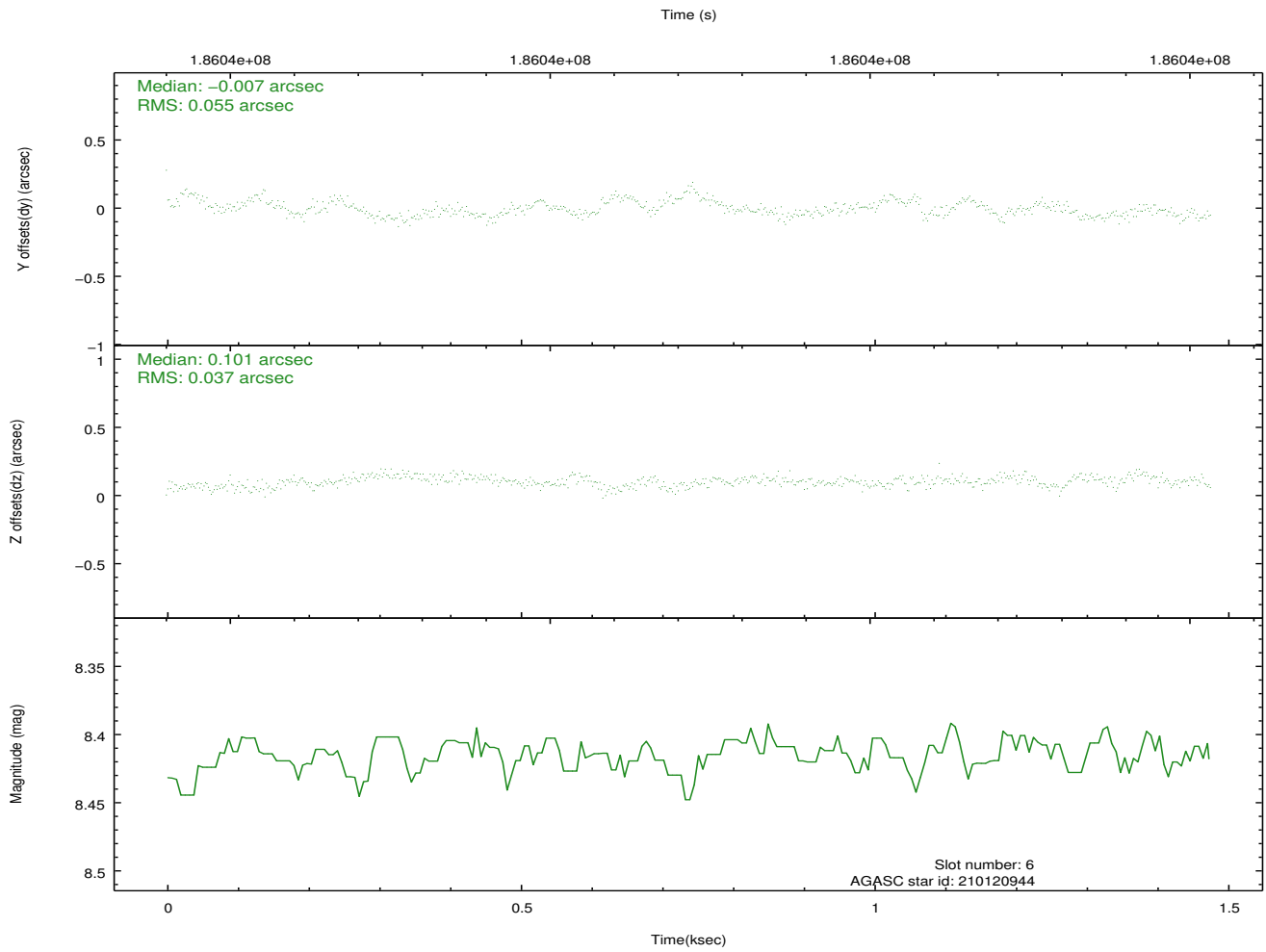
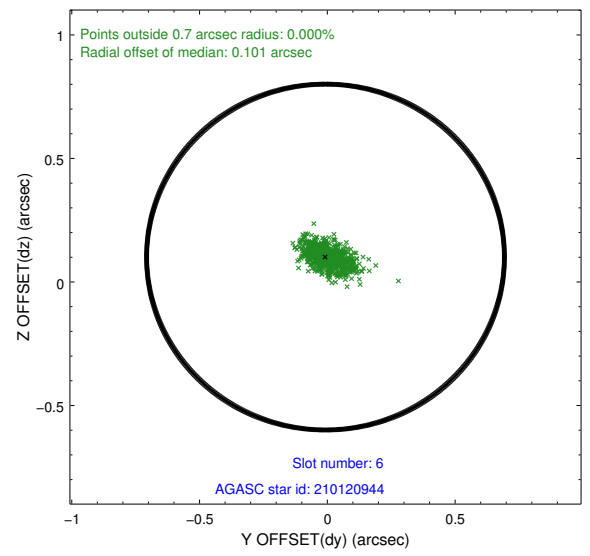
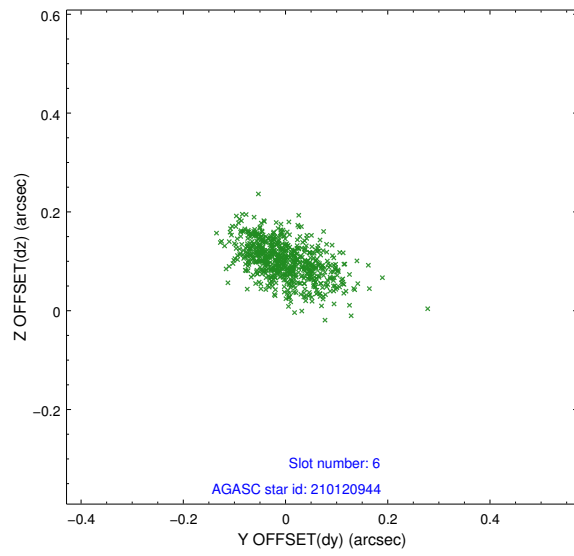
## 2.4.2 Slot 4



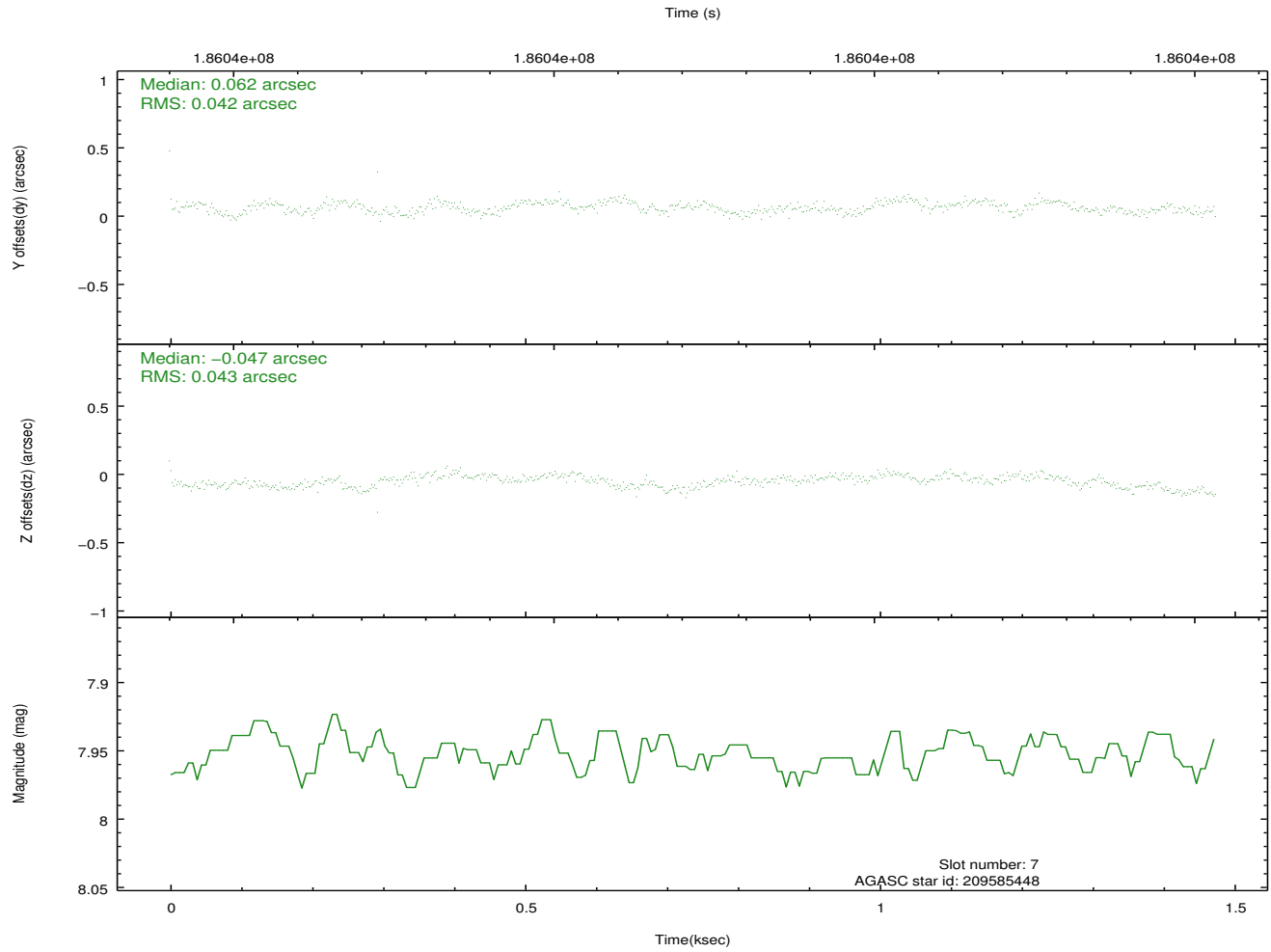
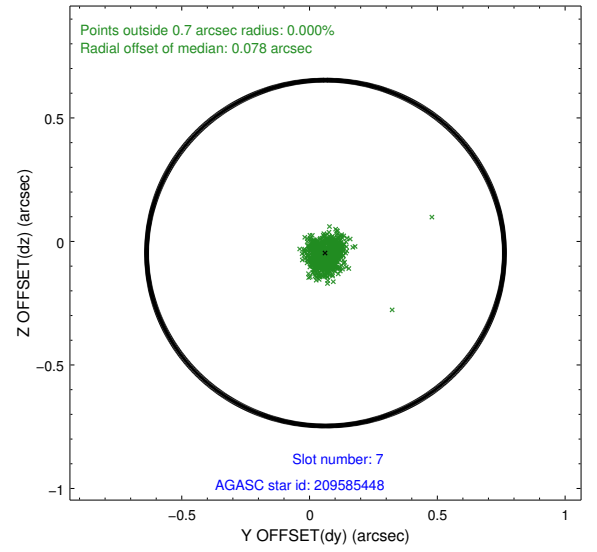
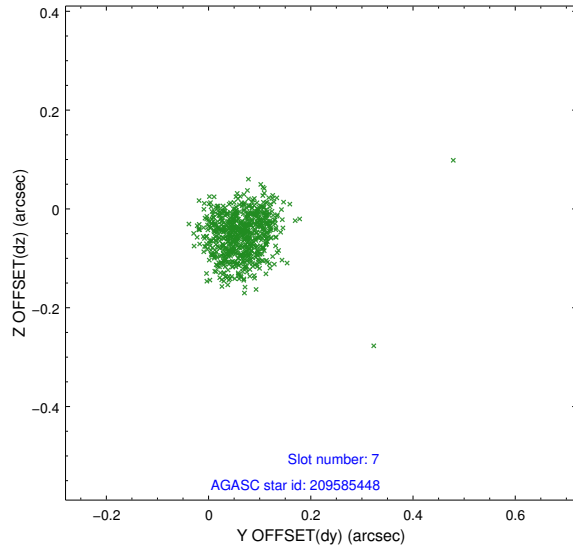
### 2.4.3 Slot 5



## 2.4.4 Slot 6

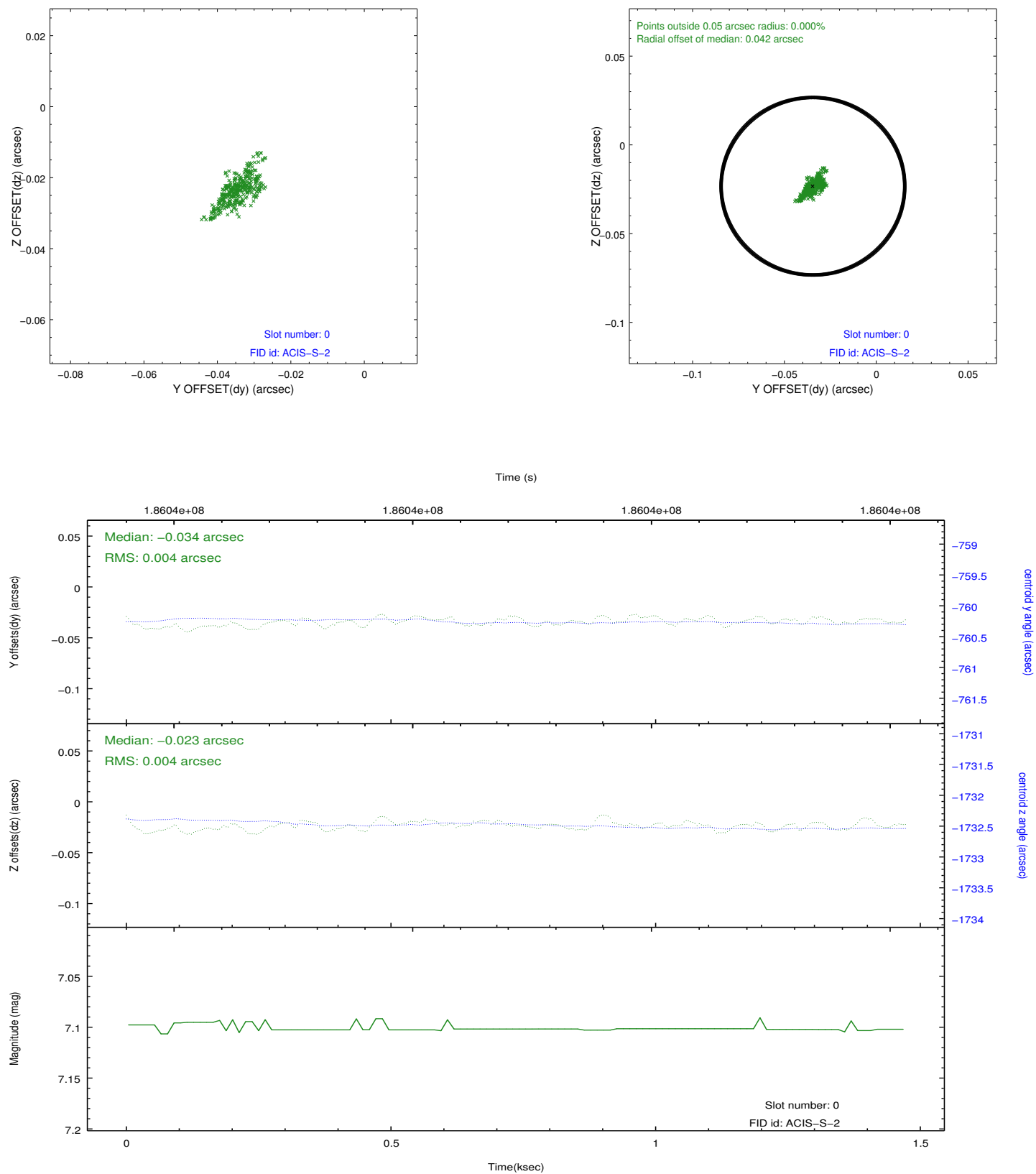


## 2.4.5 Slot 7

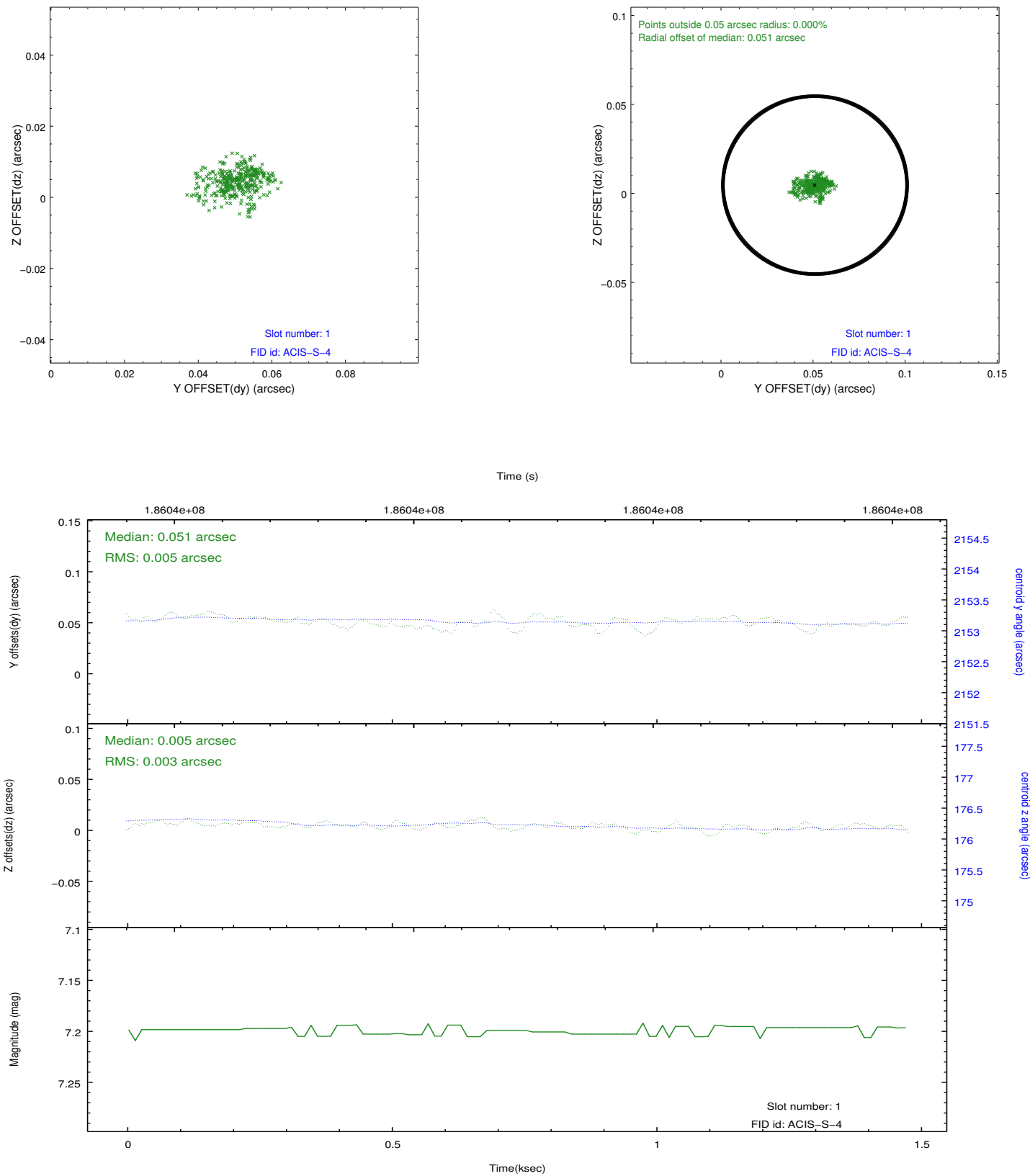


## 2.5 FID Slots

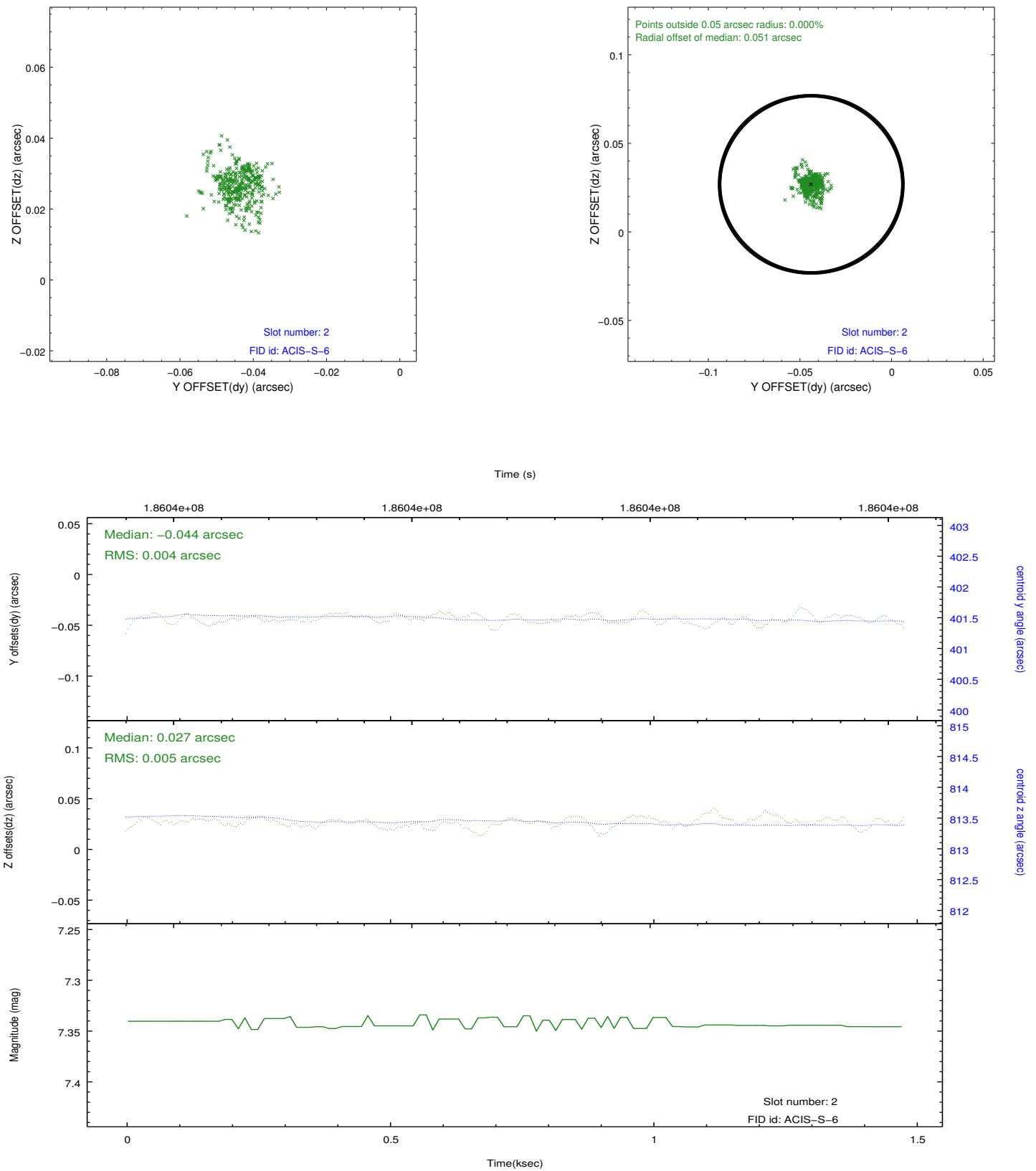
### 2.5.1 Slot 0



## 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)	2012.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.475

## 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.