

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10186 - L2 Version 2  
Chandra X-Ray Center

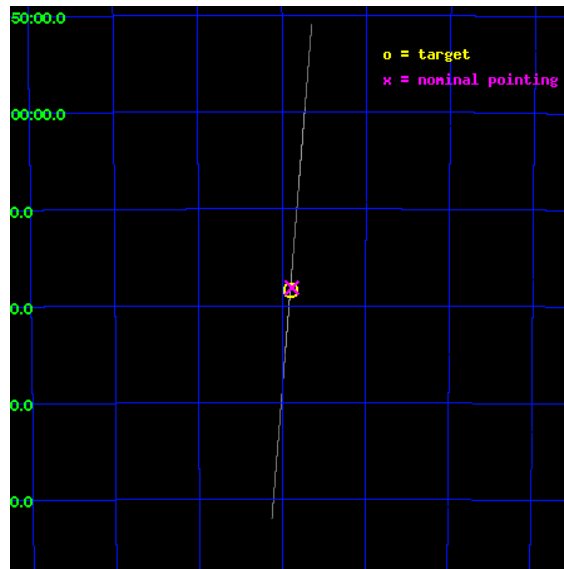
L2 Processing Date : May 30 2012

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# 1 Front

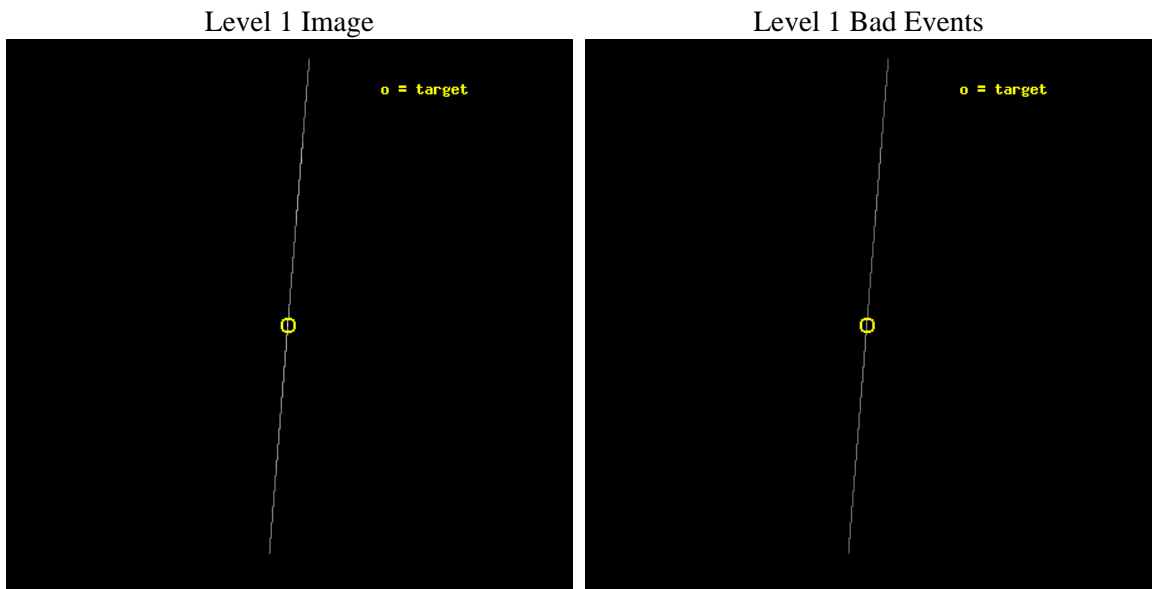
seq_num	501113	Sequence number
obs_id	10186	Observation id
title	Prompt Study of Burst-Selected Outbursts from AXPs	Proposal title
observer	Dr. Gianluca Israel	Principal investigator
object	1E1547.0-5408	Source name
ra_targ	237.725417	Observer's specified target RA [deg]
dec_targ	-54.306611	Observer's specified target Dec [deg]
ra_nom	237.72045006478	Nominal RA [deg]
dec_nom	-54.302680545381	Nominal Dec [deg]
roll_nom	94.623638651964	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12182.0	Sum of GTIs [s]
livetime	12134.4140625	Livetime [s]
ontime4	12182.0	Sum of GTIs [s]
ontime5	12182.0	Sum of GTIs [s]
ontime6	12182.0	Sum of GTIs [s]
ontime7	12182.0	Sum of GTIs [s]
ontime8	12182.0	Sum of GTIs [s]
ontime9	12182.0	Sum of GTIs [s]
l2events	308785	Number of level 2 events



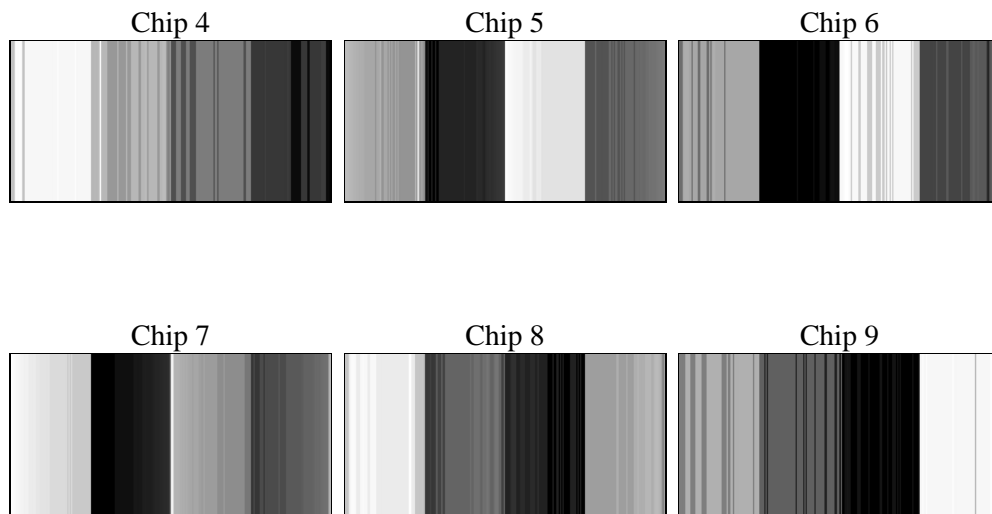
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	12182.0	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	12182.0	Sum of GTIs [s]
date	2012-05-30T06:01:26	Date and time of file creation	ontime5	12182.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12182.0	Sum of GTIs [s]
			ontime7	12182.0	Sum of GTIs [s]
			ontime8	12182.0	Sum of GTIs [s]
			ontime9	12182.0	Sum of GTIs [s]
			l1events	439077	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	29740	125906	31996	159632	61379	30424
rejected events	6371	15772	6841	18002	10040	7189
rejected %	21%	12%	21%	11%	16%	23%

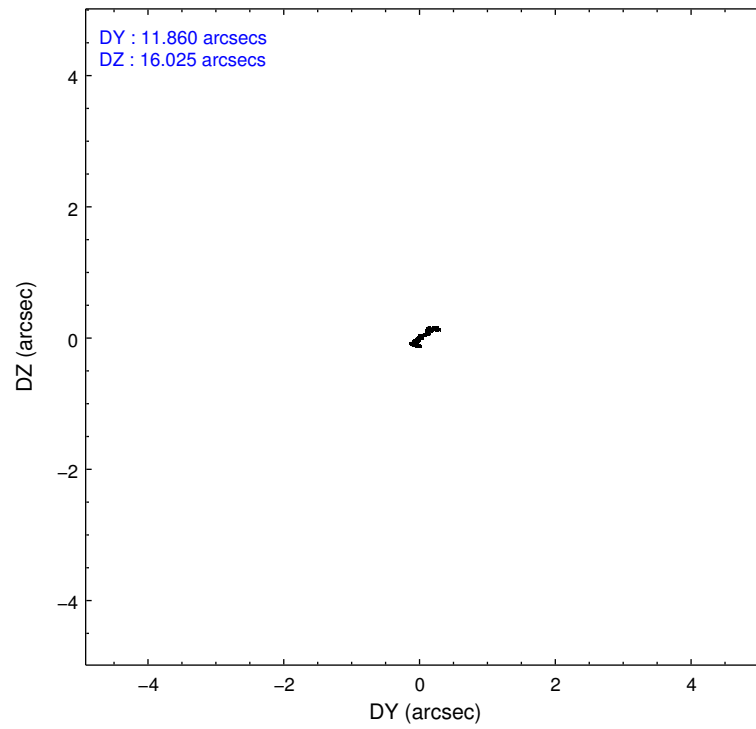
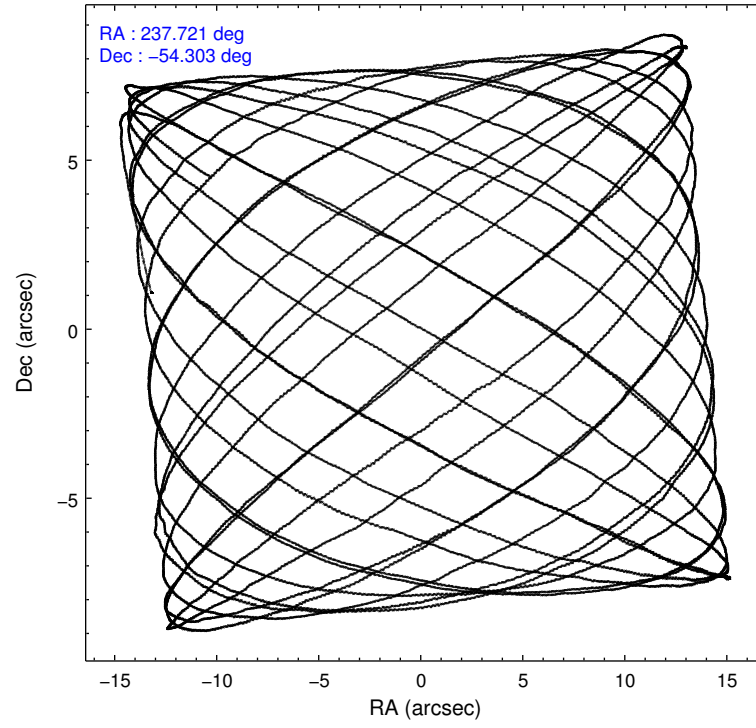
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3527	20381	3093	19420	10757	3376
	11%	16%	9%	12%	17%	11%
grade 1 events	155	217	110	297	221	122
	0%	0%	0%	0%	0%	0%
grade 2 events	9395	33933	11458	38819	17122	9156
	31%	26%	35%	24%	27%	30%
grade 3 events	3131	2381	2743	11880	5573	2600
	10%	1%	8%	7%	9%	8%
grade 4 events	3154	2194	2618	11907	5323	2787
	10%	1%	8%	7%	8%	9%
grade 5 events	5492	12178	5984	14769	8216	6343
	18%	9%	18%	9%	13%	20%
grade 6 events	4886	54622	5990	62540	14167	6040
	16%	43%	18%	39%	23%	19%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

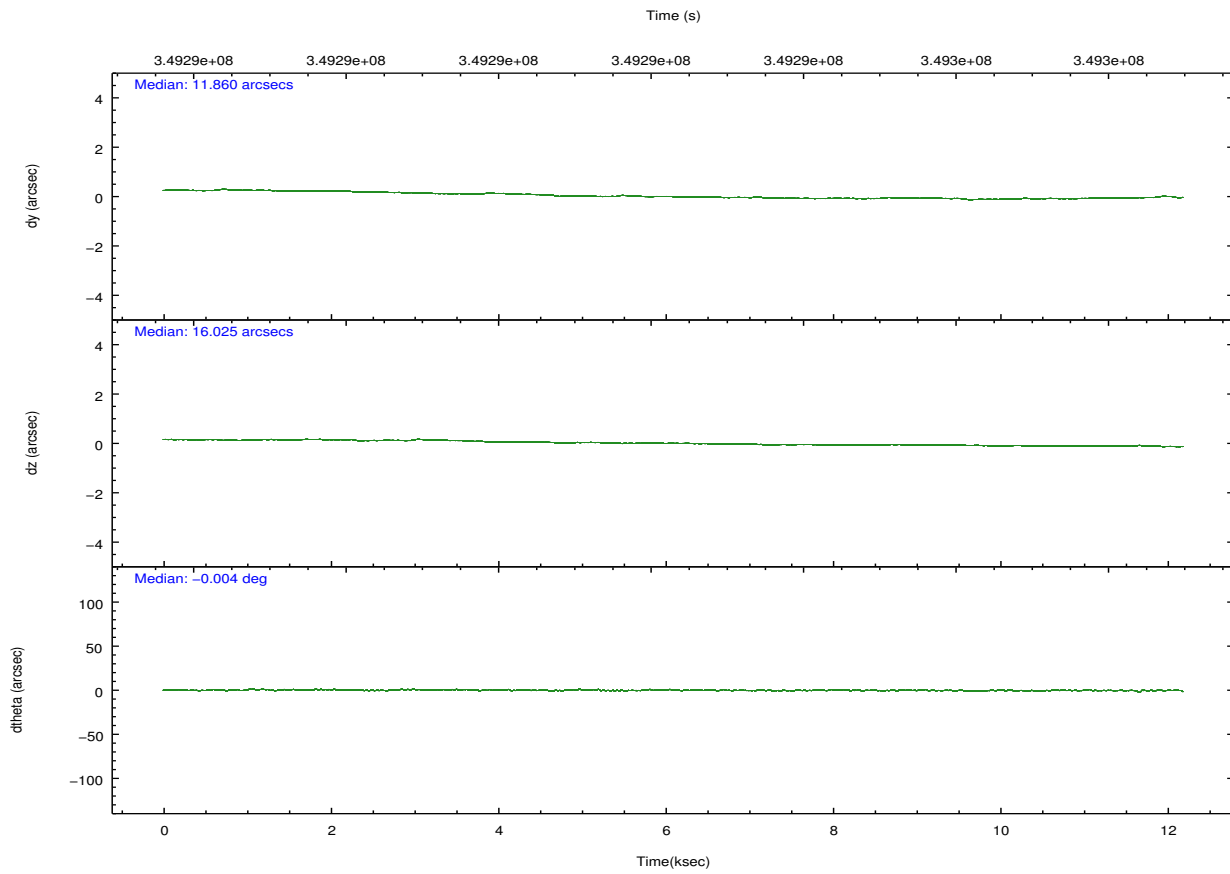
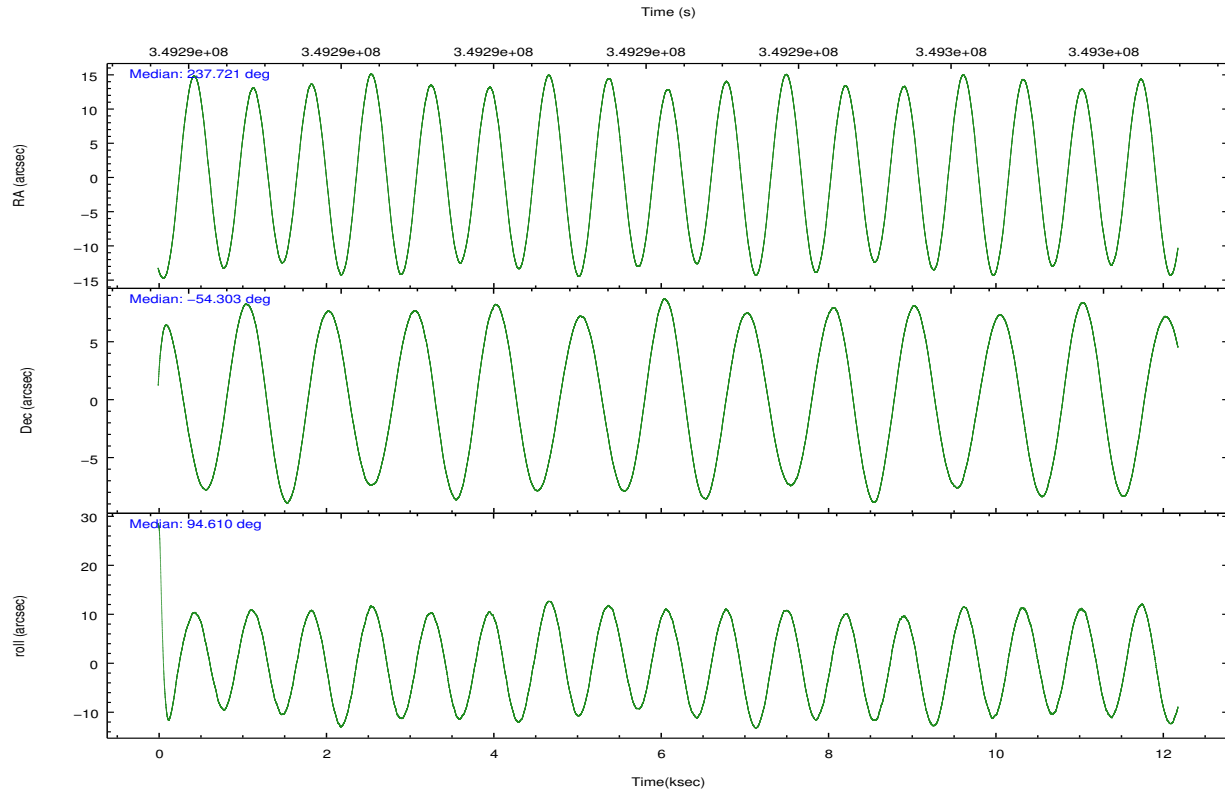


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	237.747654	237.7204500647844	Subarray requested	NONE	NONE
[deg] Pointing Dec	-54.324984	-54.30268054538143	Alternating exposures requested	N	N
[deg] Pointing Roll	94.489061	94.62363865196392	[s] Primary exposure time	0.000000	0
[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)	349286385.184000	349285663.06557			
Observation start date	2009-01-25T15:58:39	2009-01-25T15:47:43			
[s] Observation end time (MET)	349298385.184000	349298717.97872			
Observation end date	2009-01-25T19:18:39	2009-01-25T19:25:17			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



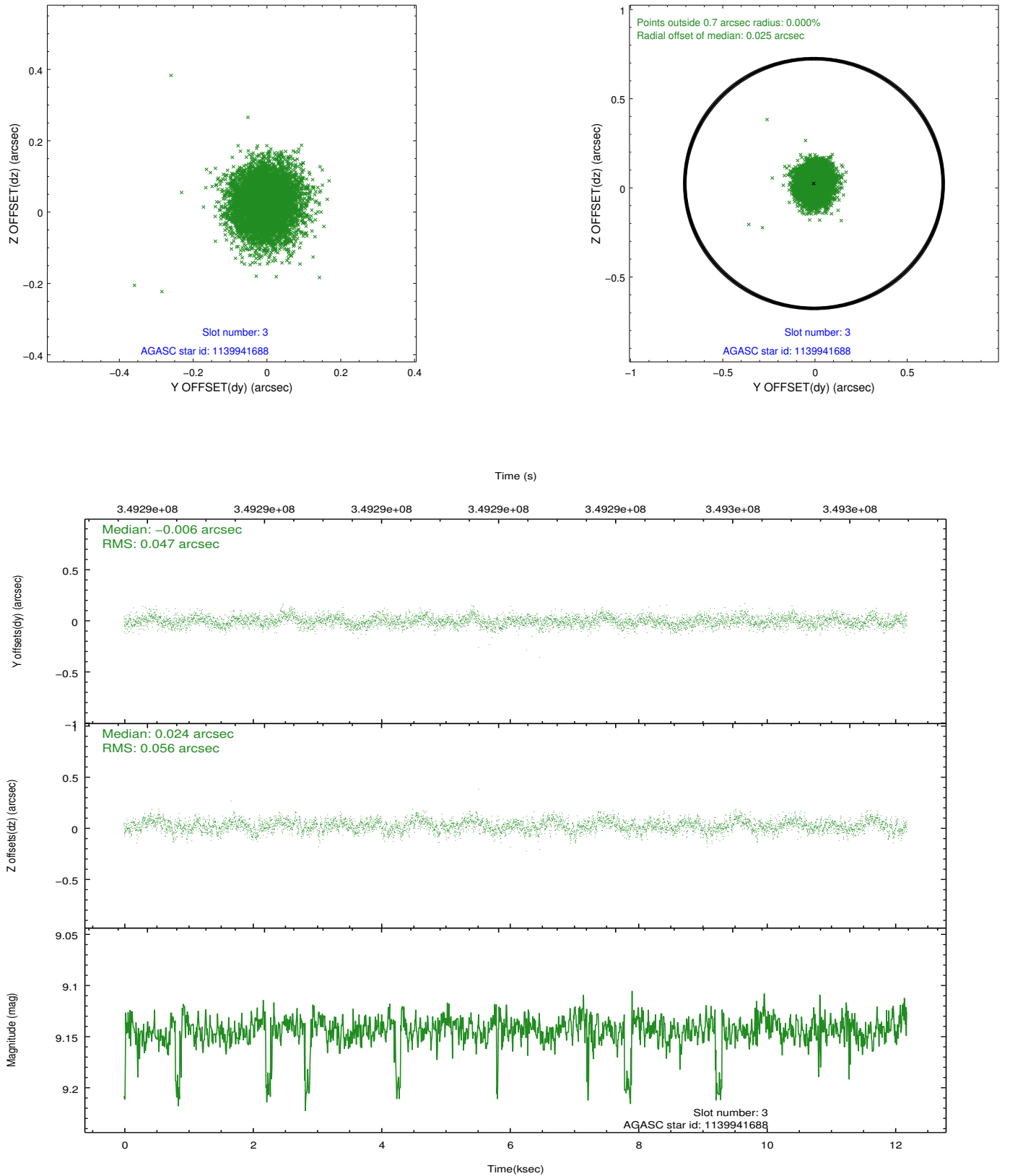


### Slot Statistics

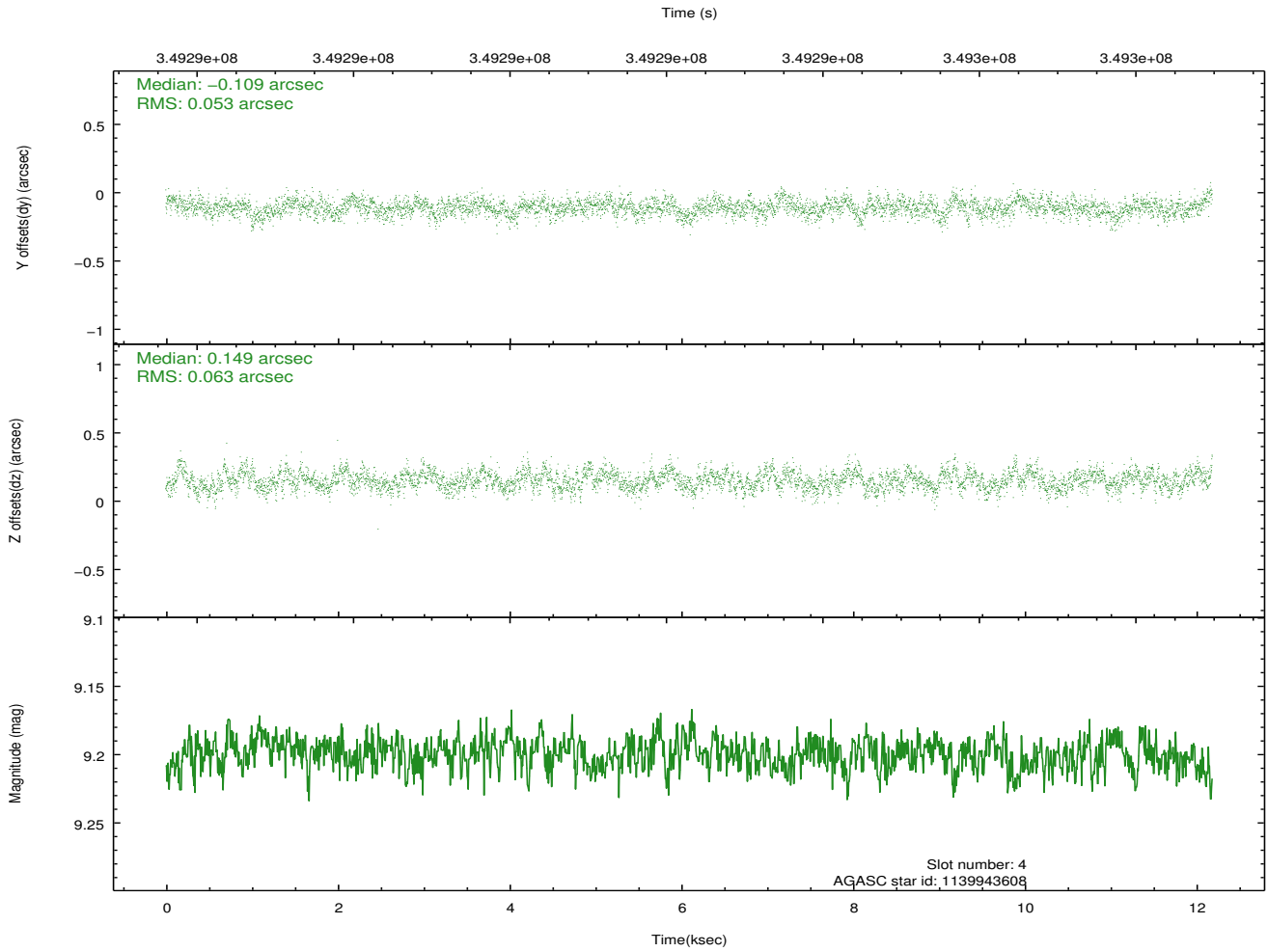
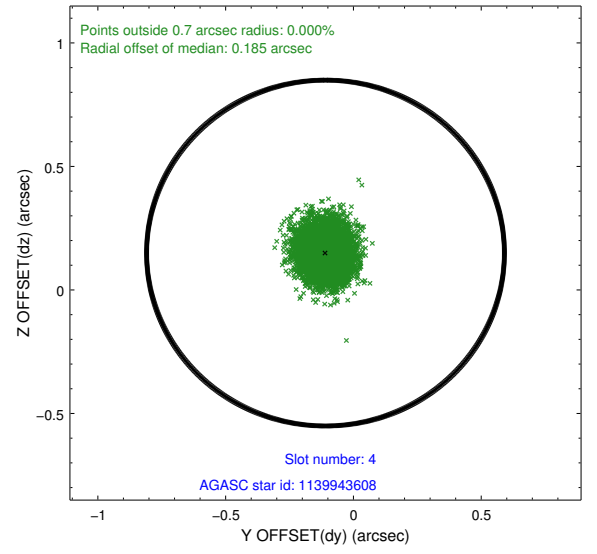
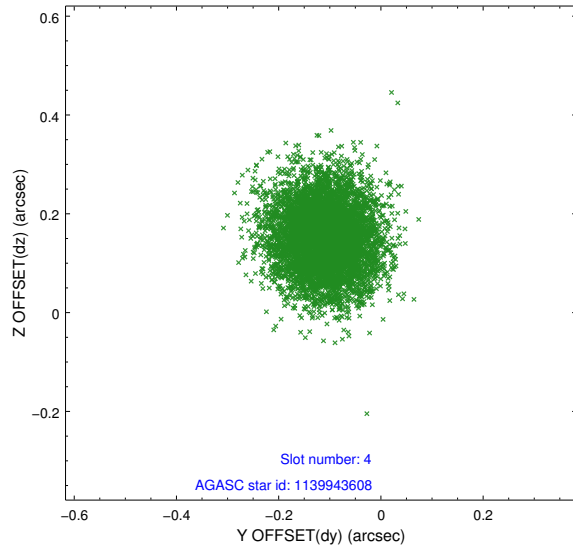
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	2973	-0.037	-0.016	0.008	0.014	0.000000	0.000000	-764.81	-1737.42
1	FID	ACIS-S-4	6.98	2973	0.115	0.022	0.006	0.011	0.000000	0.000000	2148.42	170.70
2	FID	ACIS-S-5	7.00	2973	-0.108	0.002	0.008	0.014	0.000000	0.000000	-1817.21	164.79
3	GUIDE	1139941688	9.14	5917	-0.006	0.024	0.077	0.125	238.371800	-54.158507	488.69	-1357.44
4	GUIDE	1139943608	9.20	5943	-0.109	0.149	0.088	0.141	238.761095	-54.002426	975.25	-2226.96
5	GUIDE	1139945912	9.15	5941	0.002	0.042	0.100	0.162	238.361289	-54.201826	335.99	-1322.40
6	GUIDE	1140458088	9.07	5942	0.094	-0.152	0.075	0.121	237.318795	-54.593632	-896.72	967.36
7	GUIDE	1140458608	8.43	5945	0.018	-0.068	0.061	0.099	237.337107	-54.507511	-590.53	907.34

## 2.4 Star Slots

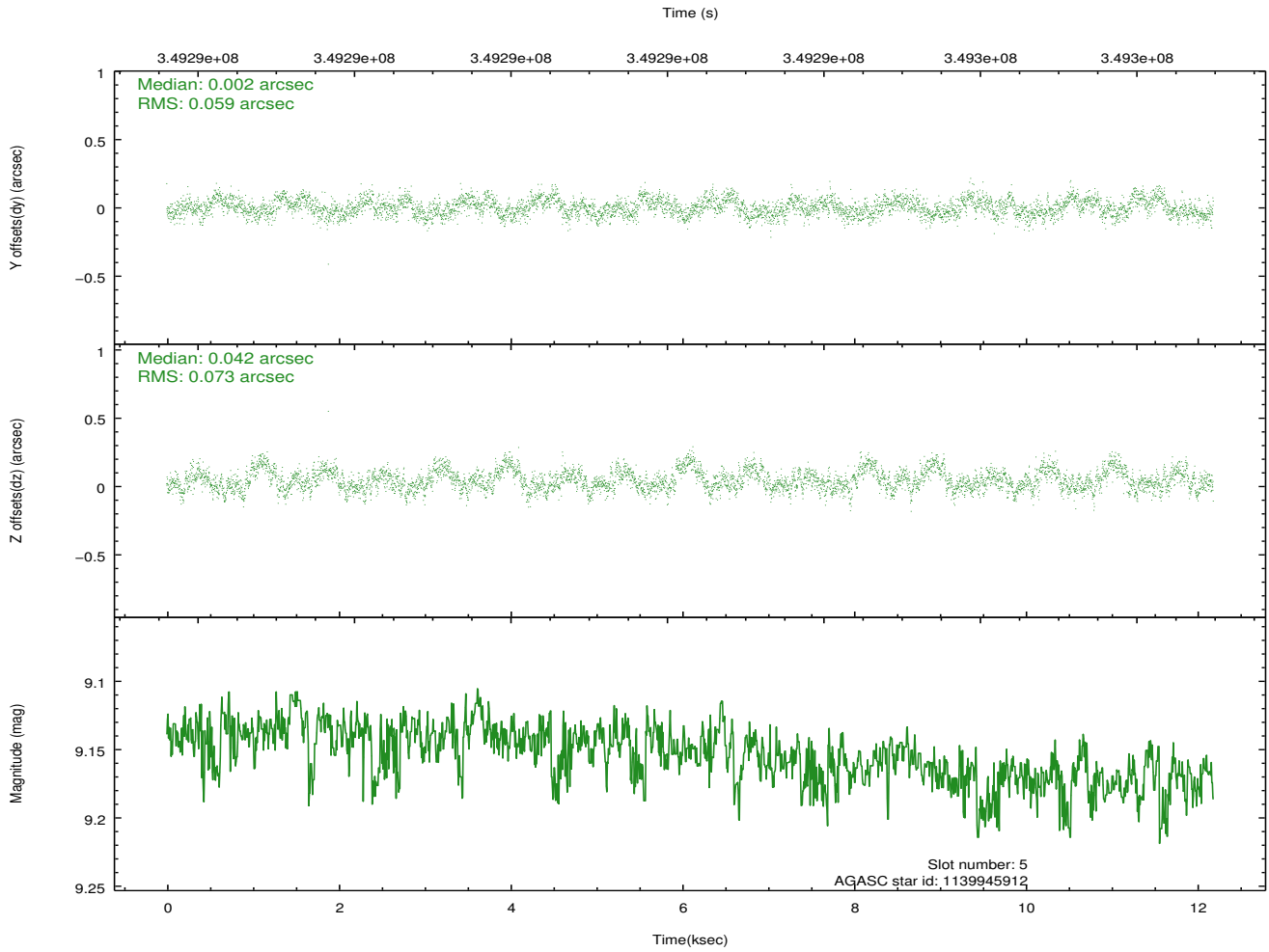
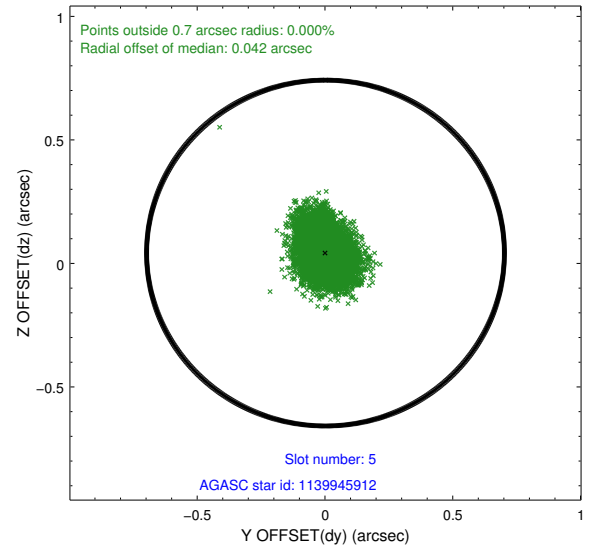
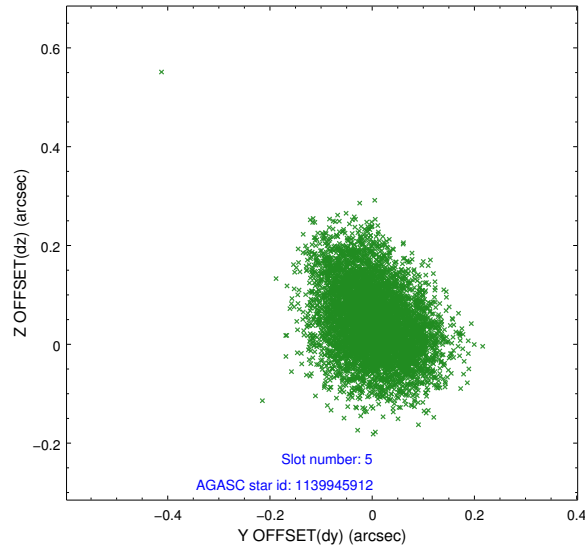
### 2.4.1 Slot 3



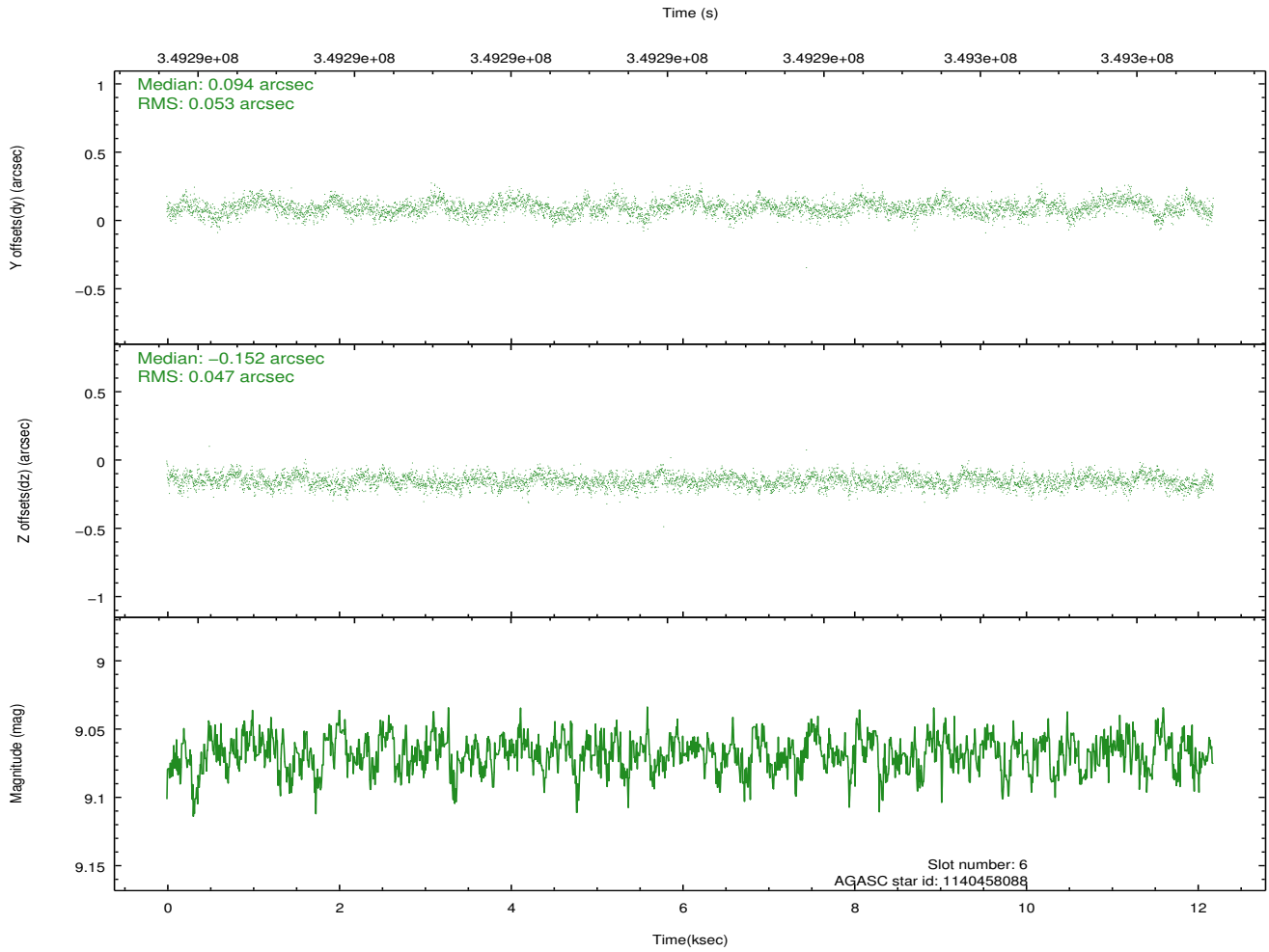
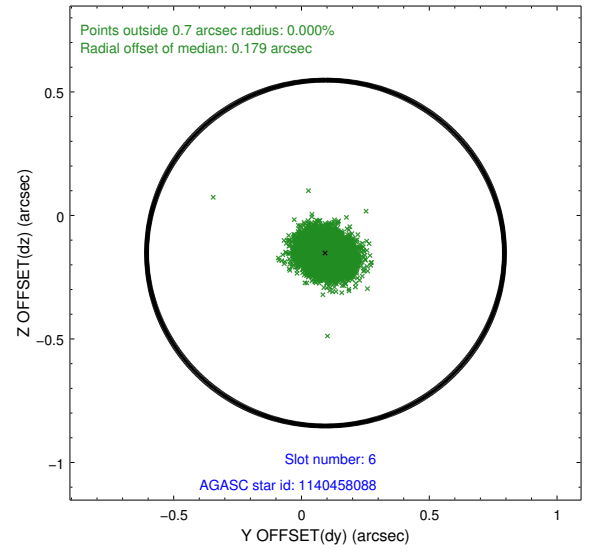
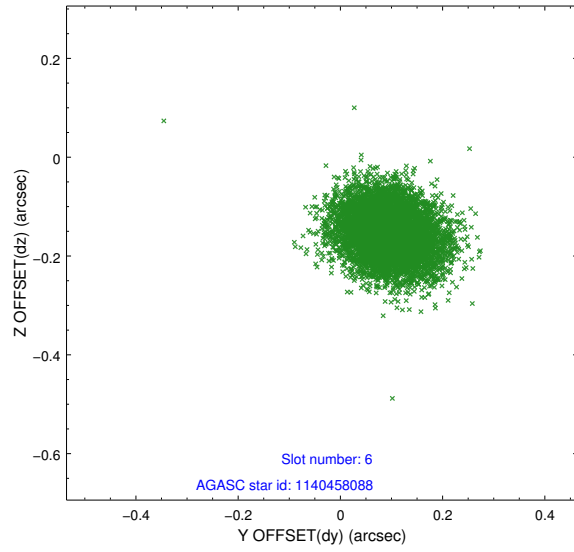
## 2.4.2 Slot 4



### 2.4.3 Slot 5

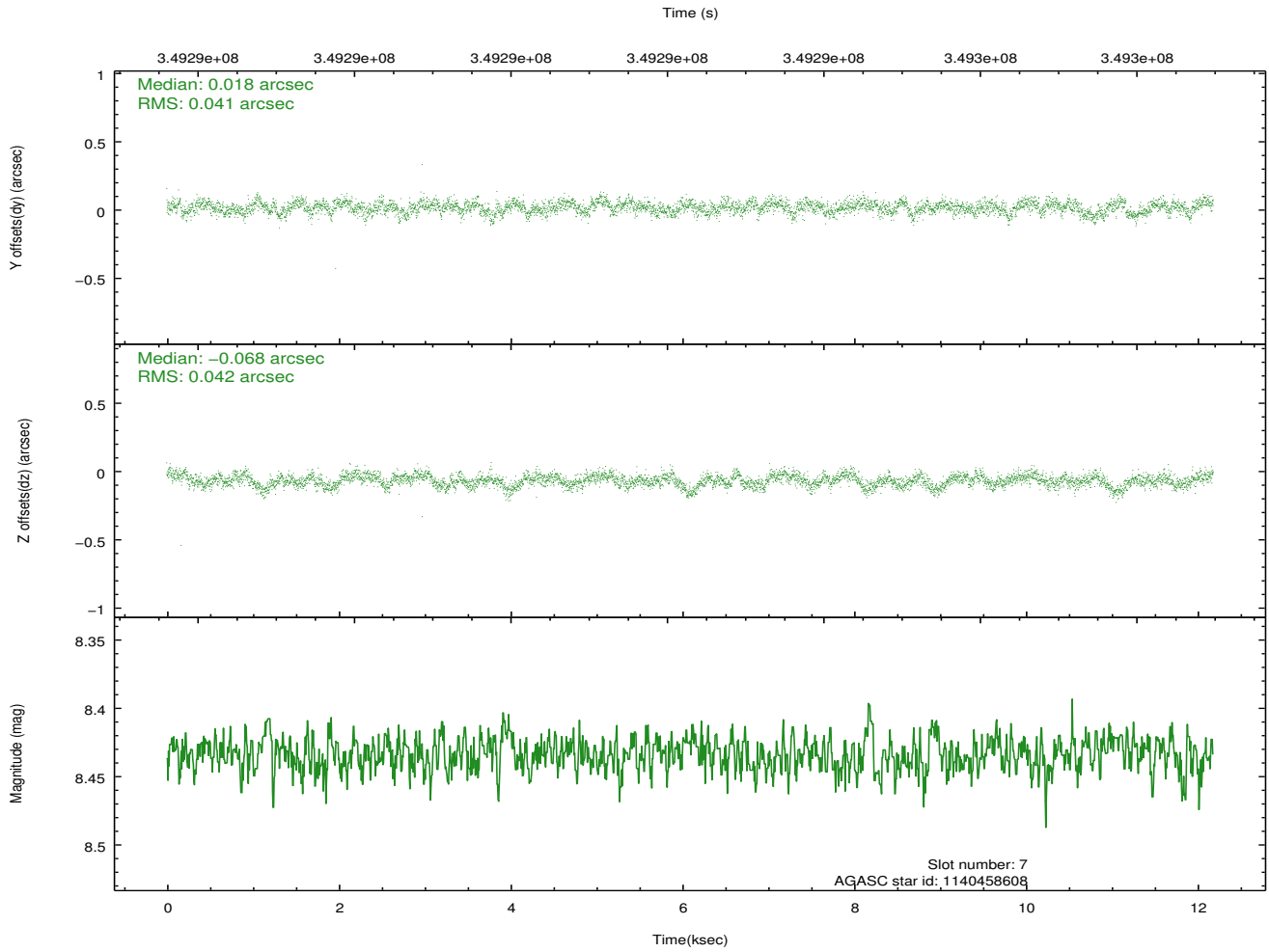
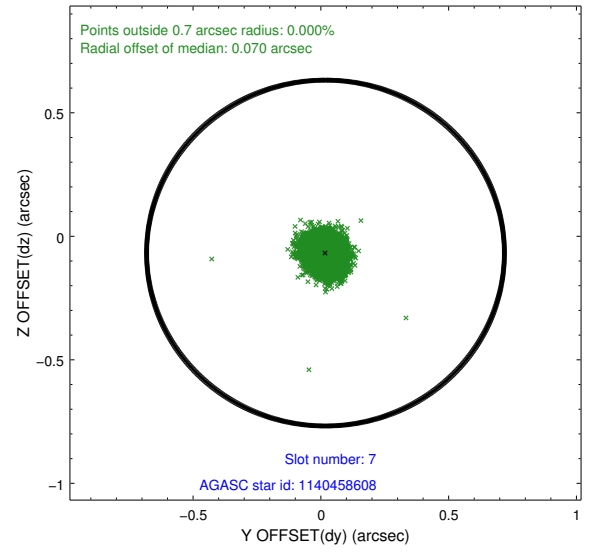
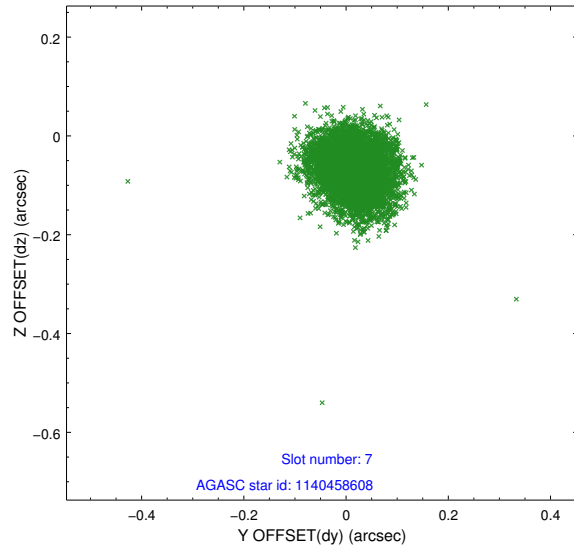


## 2.4.4 Slot 6



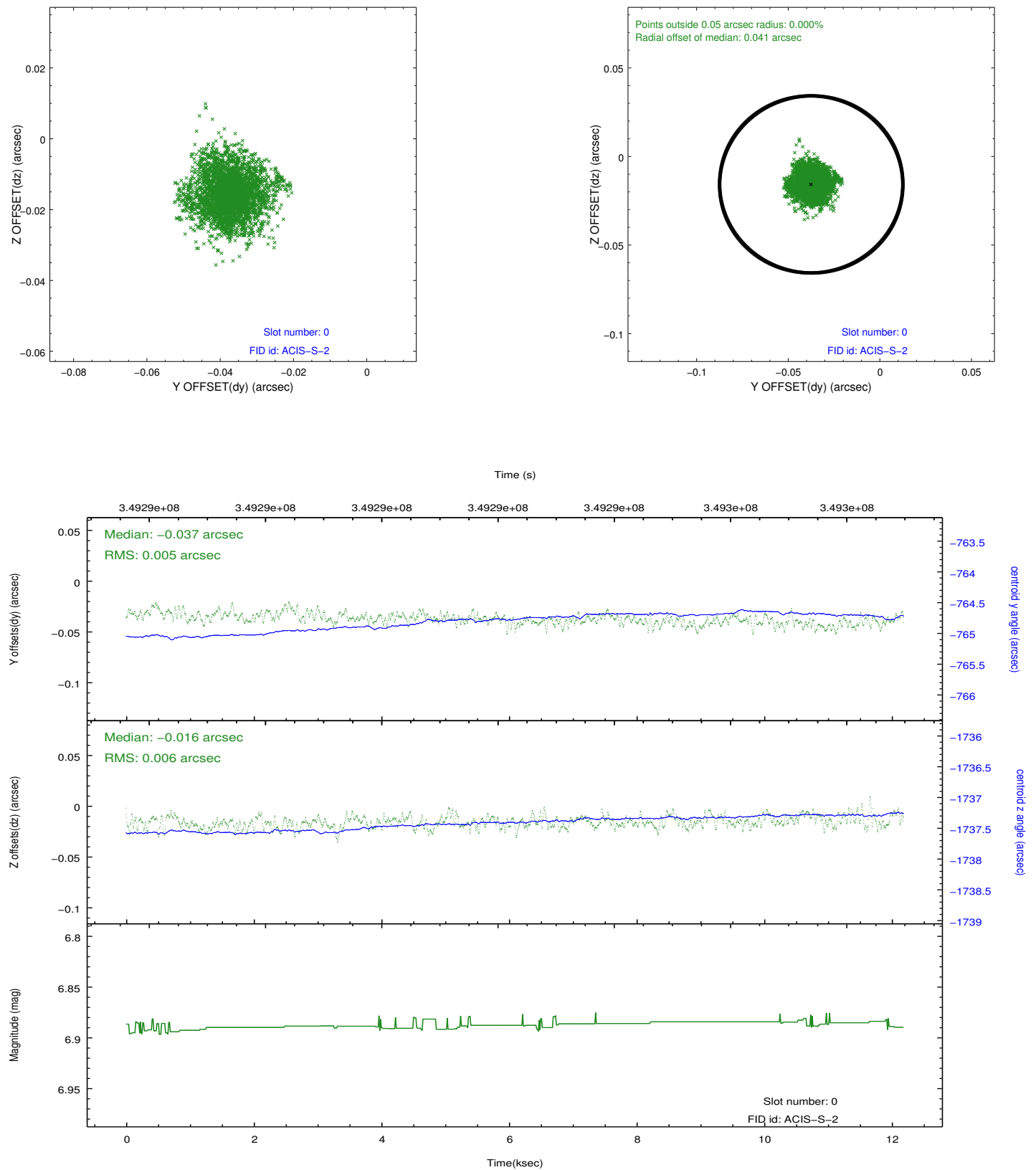


## 2.4.5 Slot 7

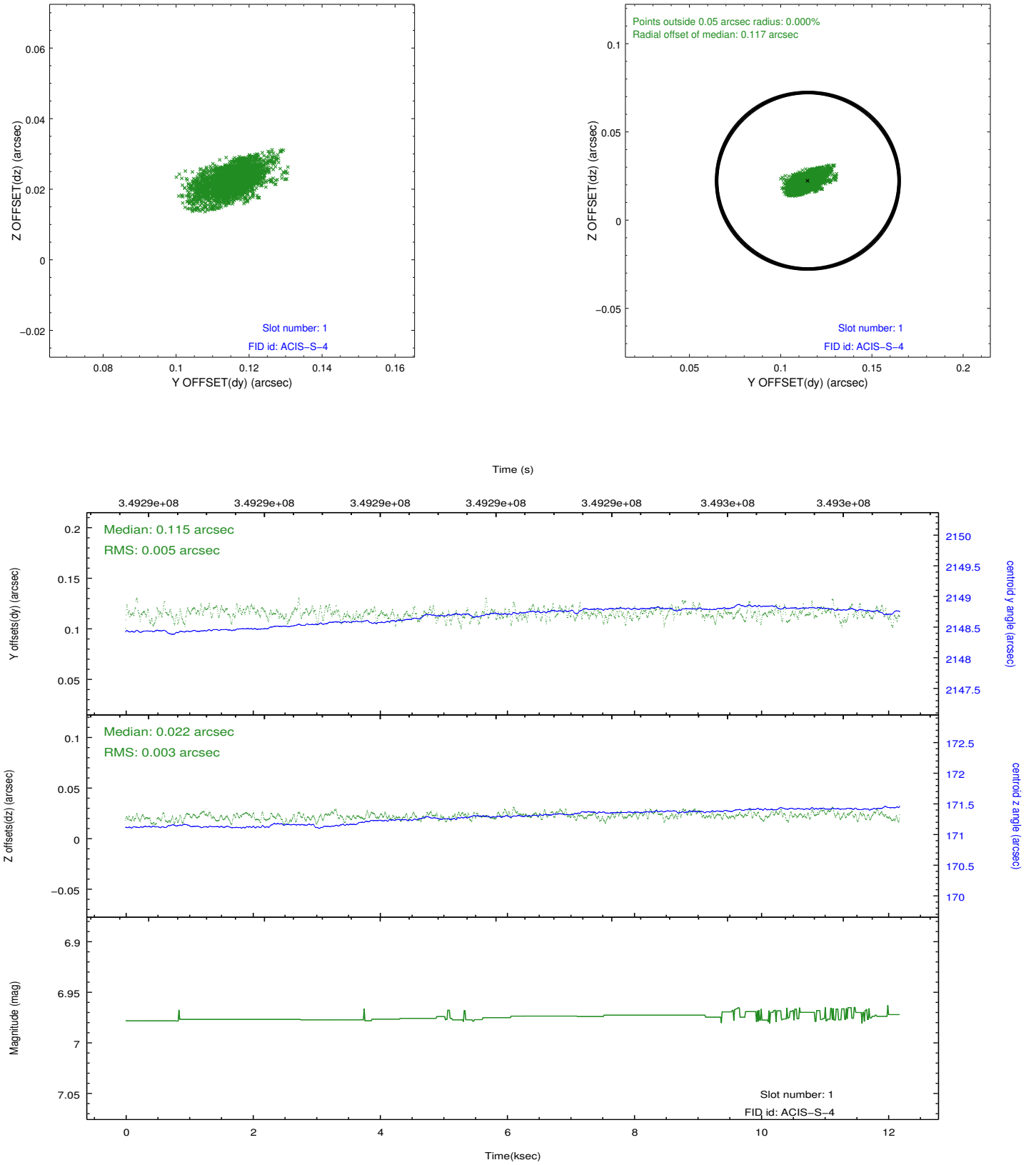


## 2.5 FID Slots

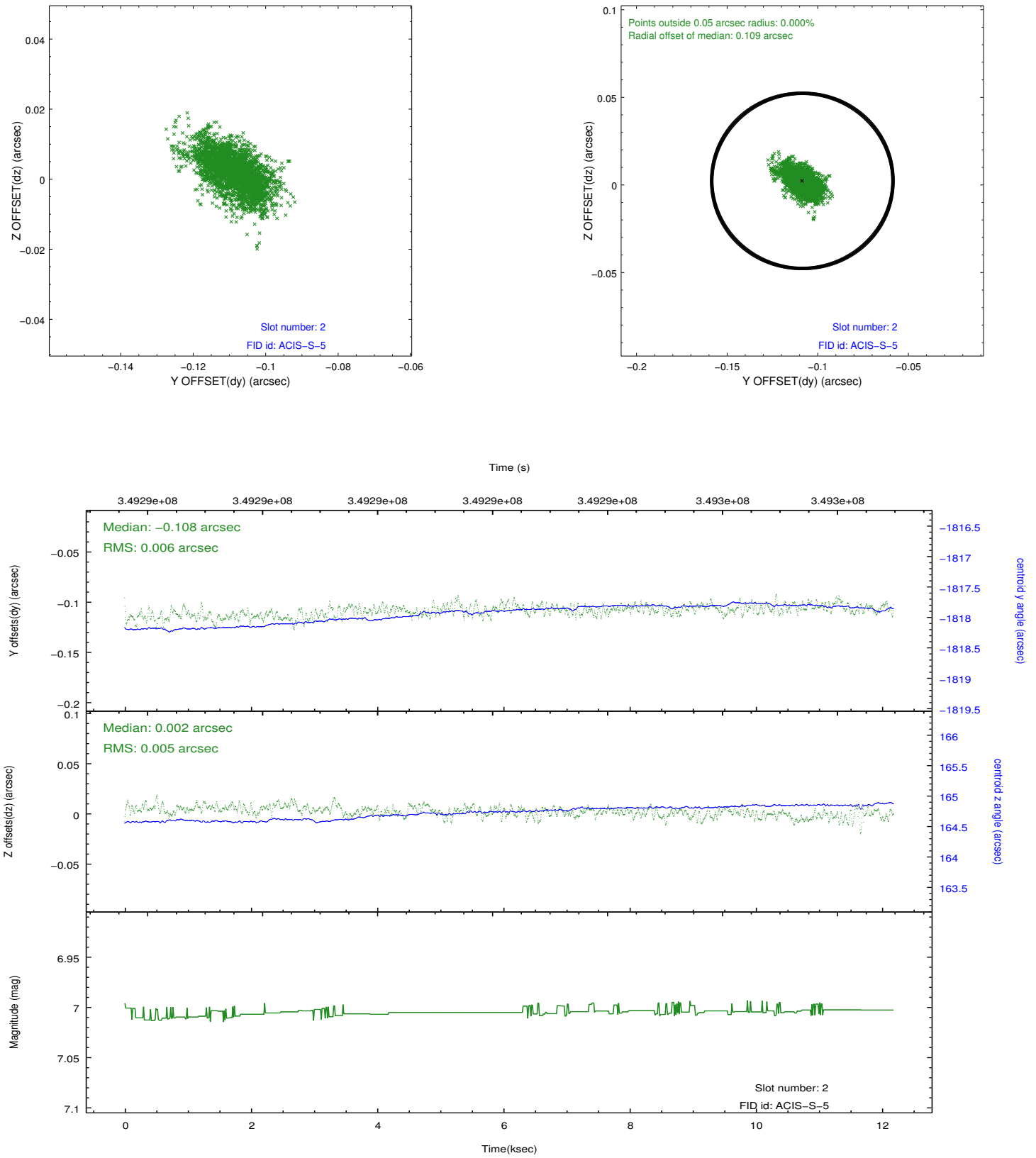
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.182

### A.2 Comments