

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5704 - L2 Version 3  
Chandra X-Ray Center

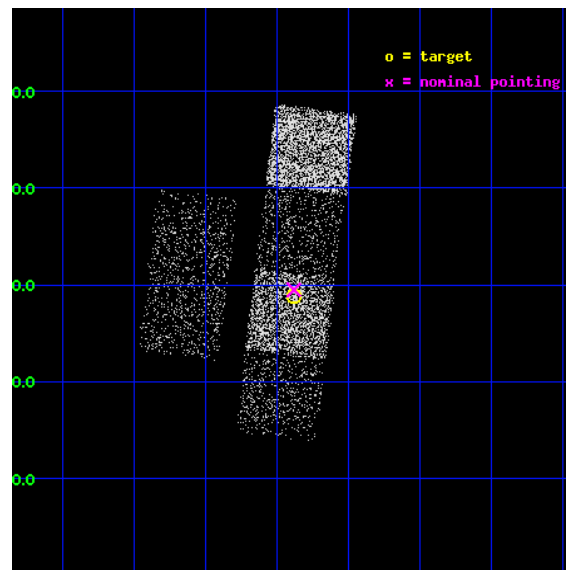
L2 Processing Date : Dec 21 2012

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# 1 Front

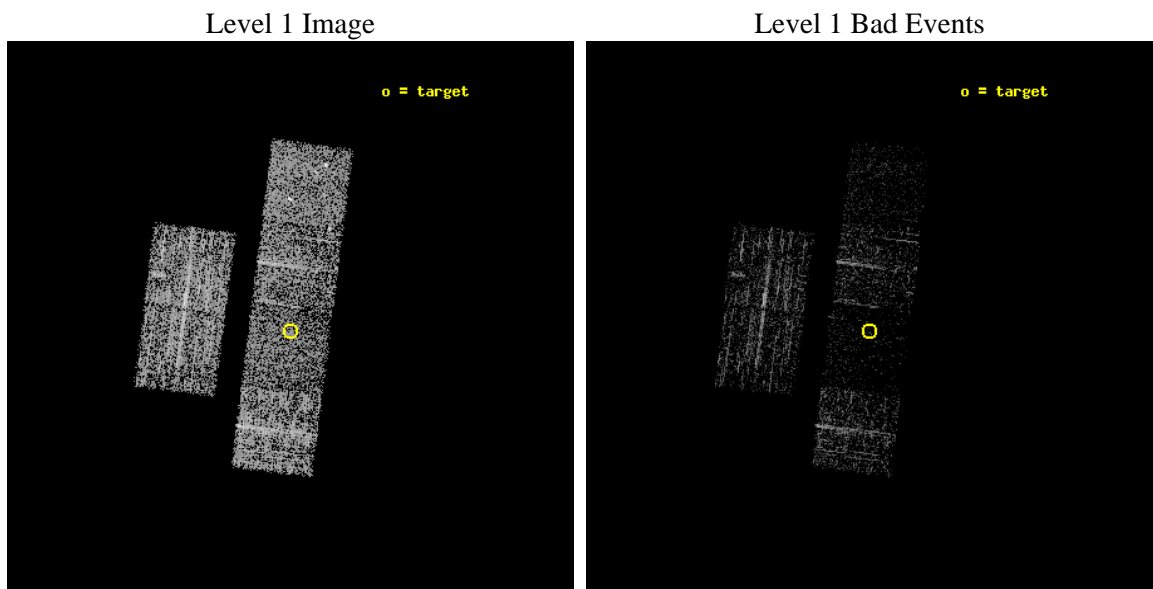
seq_num	701126	Sequence number
obs_id	5704	Observation id
title	A Uniform Chandra Survey of the Brightest and Most Extreme SDSS BALQSOs	Proposal title
observer	Dr. Scott Anderson	Principal investigator
object	SDSS J143752.76+042854.5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	219.47	Observer's specified target RA [deg]
dec_targ	4.481806	Observer's specified target Dec [deg]
ra_nom	219.47021164128	Nominal RA [deg]
dec_nom	4.4915342475759	Nominal Dec [deg]
roll_nom	97.158508824853	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1545.5999942422	Sum of GTIs [s]
livetime	1526.0286764665	Livetime [s]
ontime2	1545.5999942422	Sum of GTIs [s]
ontime3	1545.5999942422	Sum of GTIs [s]
ontime5	1545.5999942422	Sum of GTIs [s]
ontime6	1545.5999942422	Sum of GTIs [s]
ontime7	1545.5999942422	Sum of GTIs [s]
ontime8	1545.5999942422	Sum of GTIs [s]
l2events	8494	Number of level 2 events



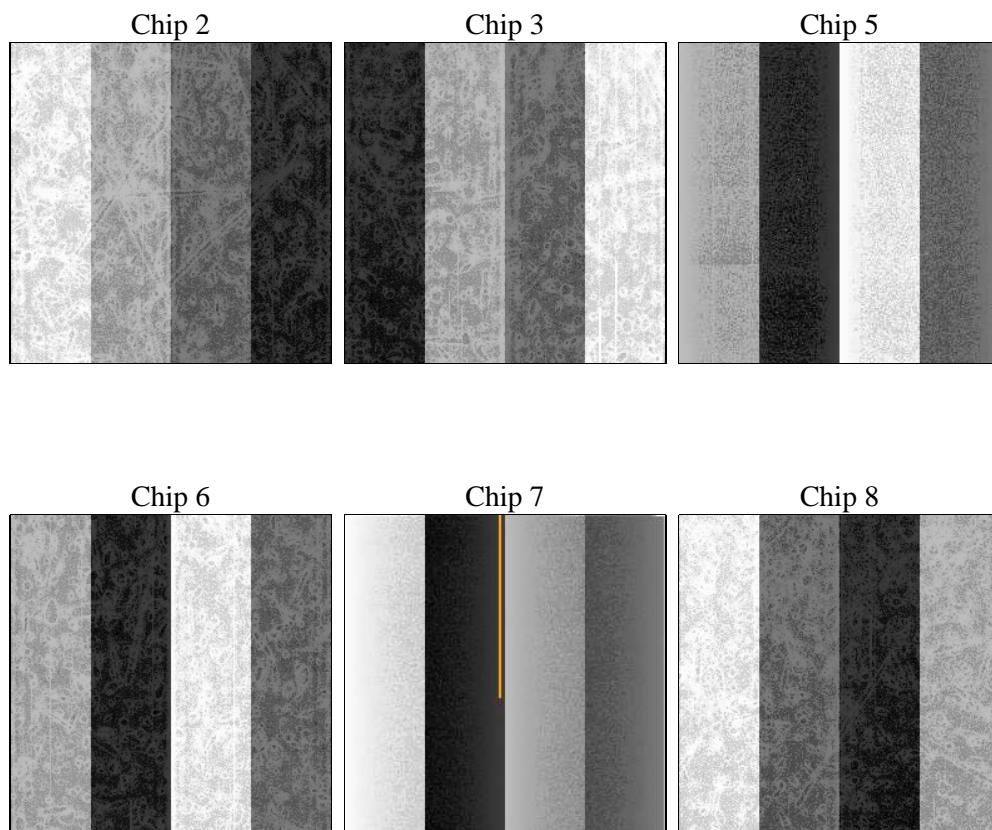
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	1545.5999942422	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	1545.5999942422	Sum of GTIs [s]
date	2012-12-20T20:28:09	Date and time of file creation	ontime3	1545.5999942422	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1545.5999942422	Sum of GTIs [s]
			ontime6	1545.5999942422	Sum of GTIs [s]
			ontime7	1545.5999942422	Sum of GTIs [s]
			ontime8	1545.5999942422	Sum of GTIs [s]
			l1events	46273	Number of level 1 events

### 2.1.4 Events

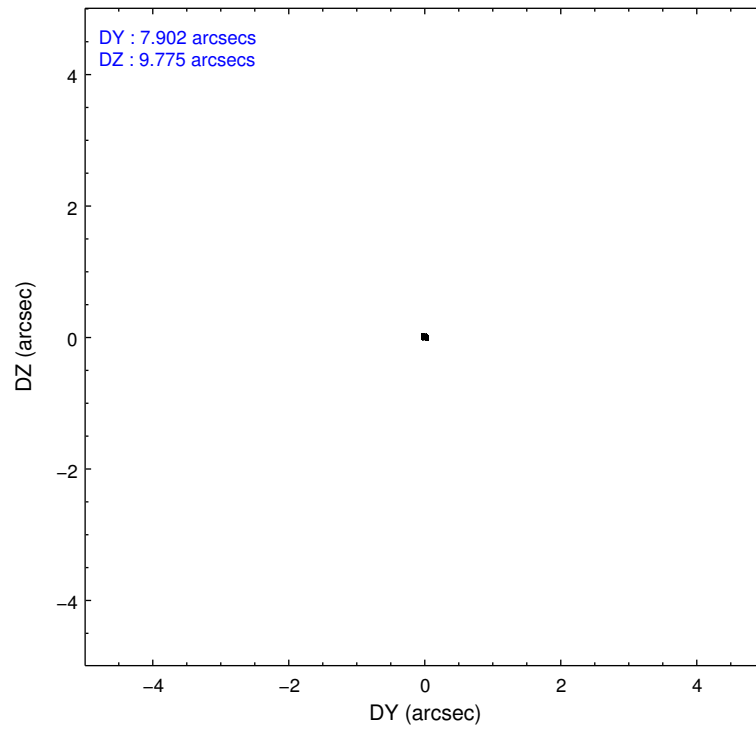
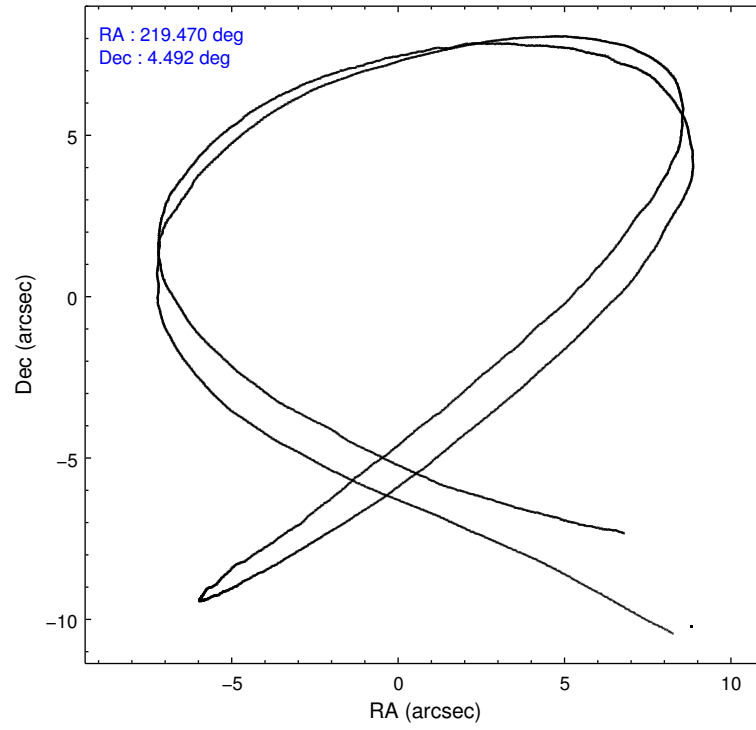
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	9617	7911	7496	7005	4602	9642
rejected events	8931	7269	2785	6308	1982	7597
rejected %	92%	91%	37%	90%	43%	78%

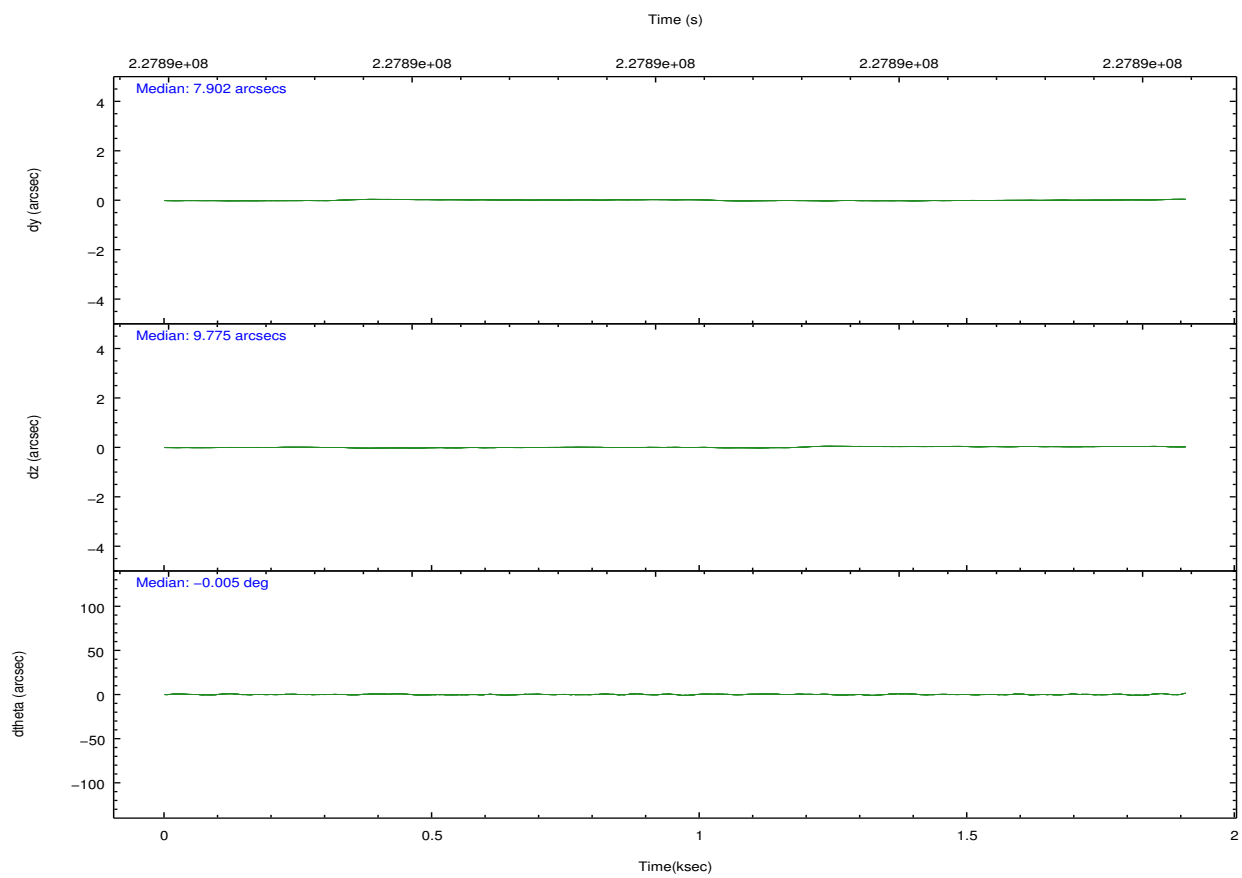
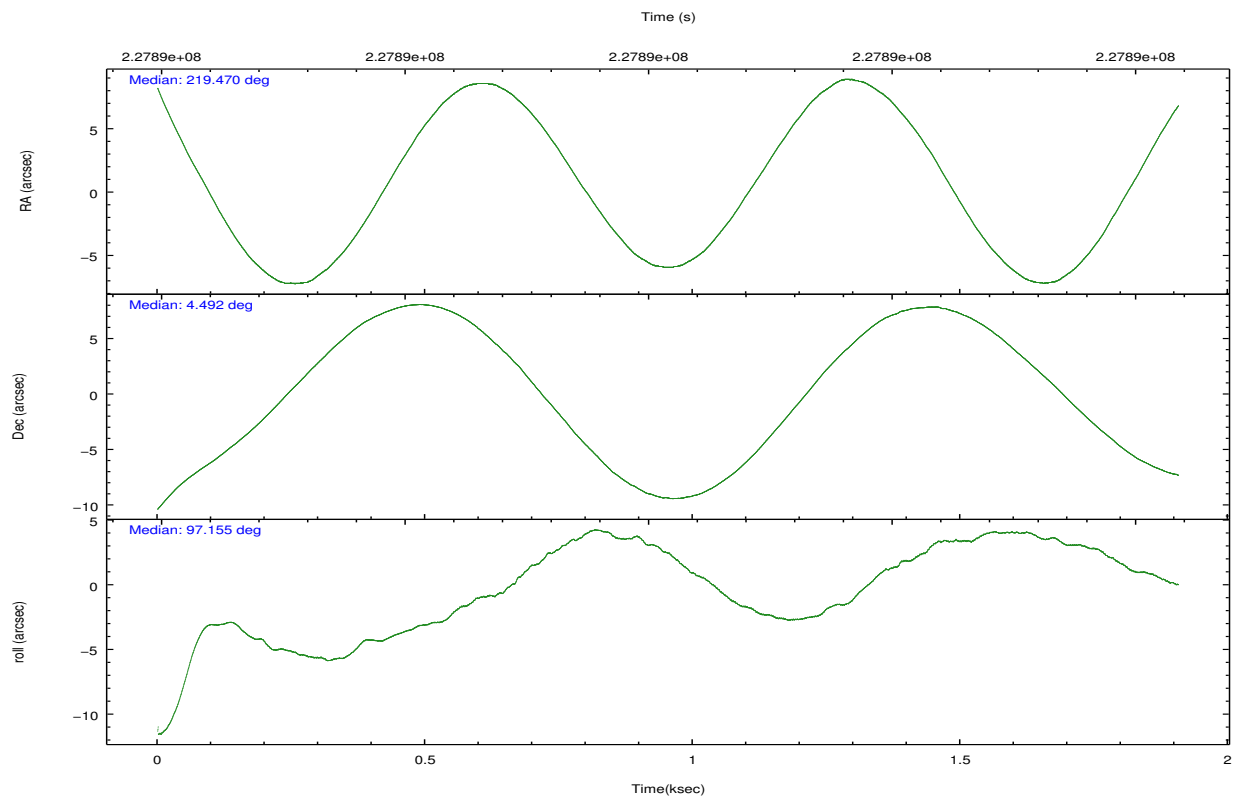
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	277	271	1013	291	355	597
	2%	3%	13%	4%	7%	6%
grade 1 events	0	3	46	4	10	4
	0%	0%	0%	0%	0%	0%
grade 2 events	171	124	1465	143	663	502
	1%	1%	19%	2%	14%	5%
grade 3 events	81	74	231	82	242	262
	0%	0%	3%	1%	5%	2%
grade 4 events	62	75	225	81	283	211
	0%	0%	3%	1%	6%	2%
grade 5 events	120	146	610	152	480	252
	1%	1%	8%	2%	10%	2%
grade 6 events	96	102	1801	103	1093	503
	0%	1%	24%	1%	23%	5%
grade 7 events	8810	7116	2105	6149	1476	7311
	91%	89%	28%	87%	32%	75%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	219.487294	219.4702116412824	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.469988	4.491534247575909	Alternating exposures requested	N	N
[deg] Pointing Roll	97.000549	97.15850882485336	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	227891496.184000	227890379.077			
Observation start date	2005-03-22T15:10:32	2005-03-22T14:52:59			
[s] Observation end time (MET)	227892996.184000	227893529.92714			
Observation end date	2005-03-22T15:35:32	2005-03-22T15:45:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect





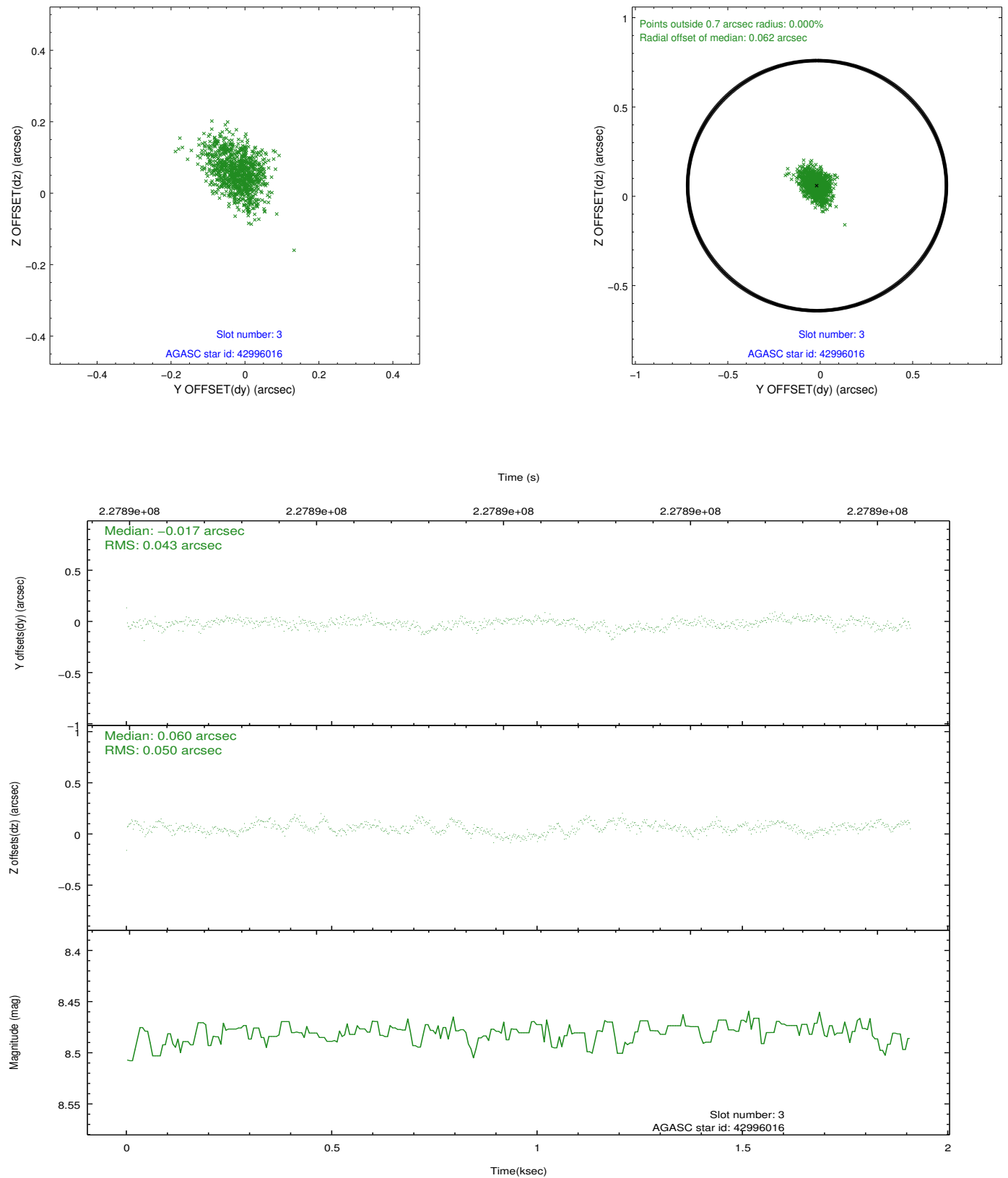
### Slot Statistics

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	466	-0.033	-0.028	0.007	0.010	0.000000	0.000000	-760.67	-1730.96
1	FID	ACIS-S-4	7.21	466	0.103	0.024	0.004	0.009	0.000000	0.000000	2151.14	174.08
2	FID	ACIS-S-5	7.24	466	-0.100	0.013	0.007	0.012	0.000000	0.000000	-1809.20	171.57
3	GUIDE	42996016	8.48	932	-0.017	0.060	0.069	0.114	219.603215	4.854192	1321.89	-582.14
4	GUIDE	43000784	9.80	932	0.043	0.081	0.179	0.389	219.989925	4.620386	319.73	-1857.18
5	GUIDE	43387248	9.11	930	-0.010	-0.047	0.090	0.146	218.877208	5.050430	2341.40	1913.98
6	GUIDE	42994240	8.22	932	-0.212	-0.180	0.095	0.153	219.305733	4.467762	73.62	648.86
7	GUIDE	43006240	9.33	929	0.205	0.057	0.095	0.151	219.423959	3.924387	-1921.64	464.91

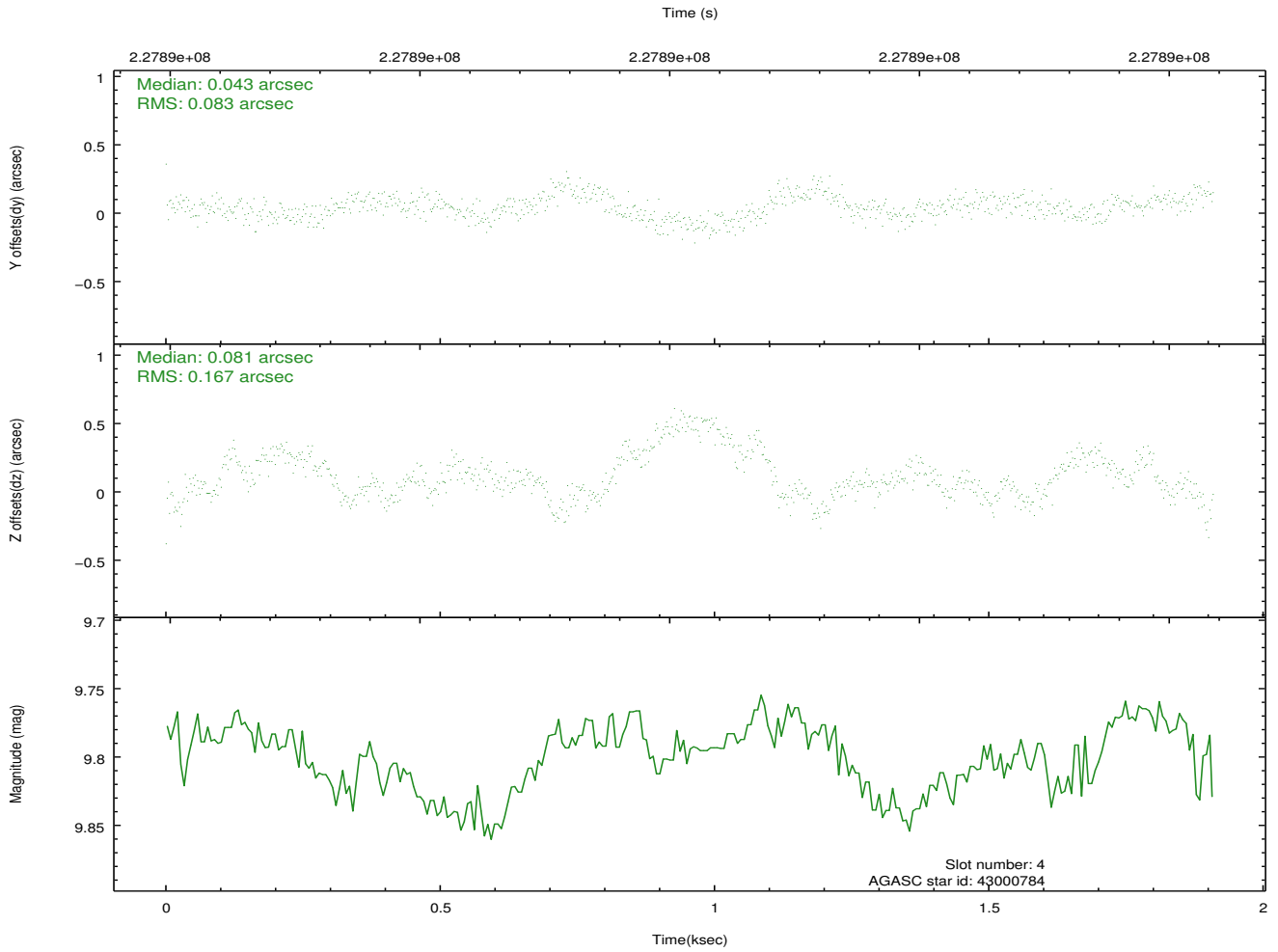
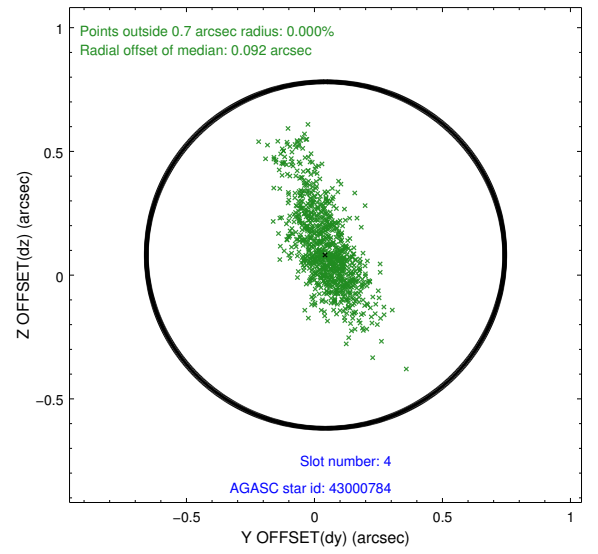
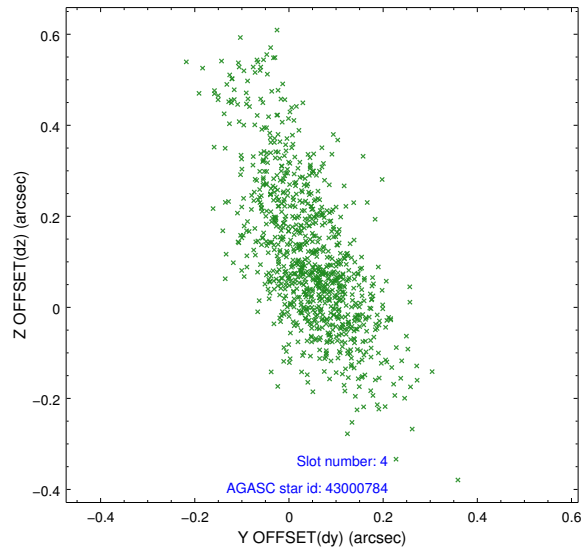


## 2.4 Star Slots

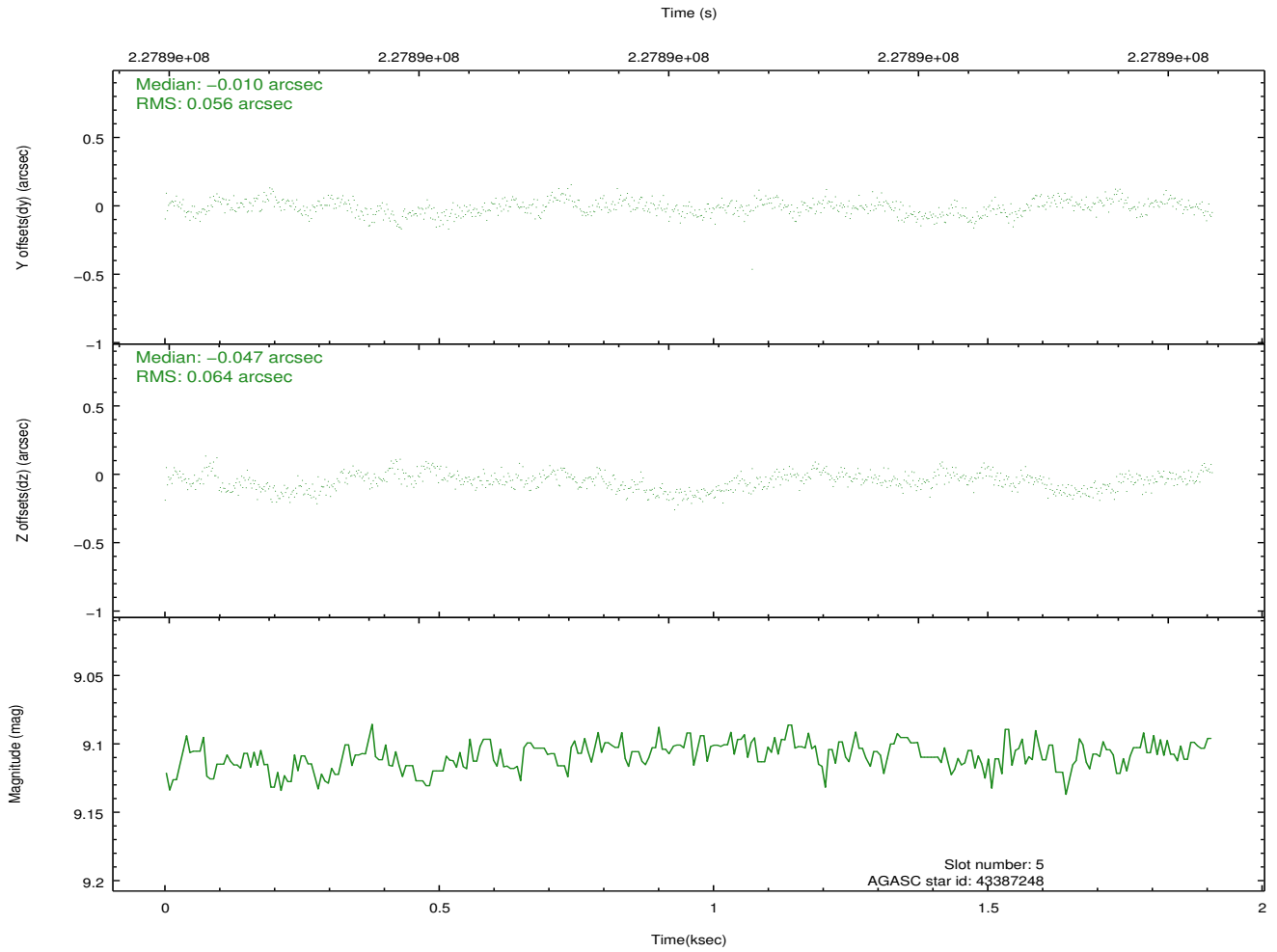
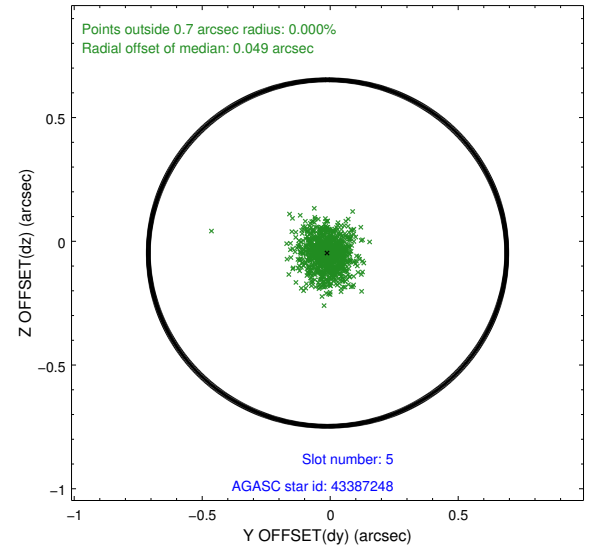
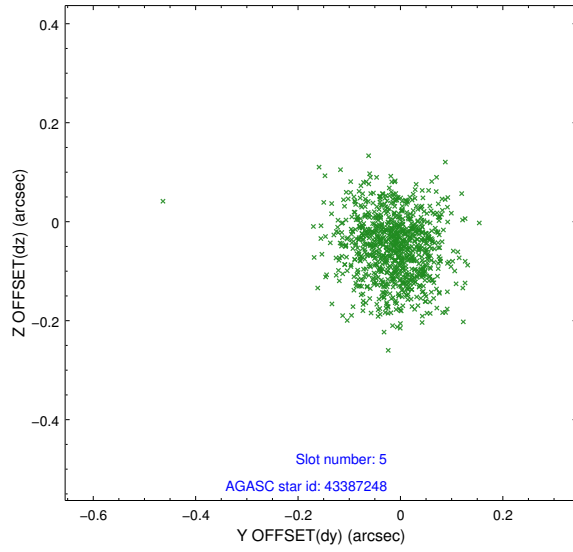
### 2.4.1 Slot 3



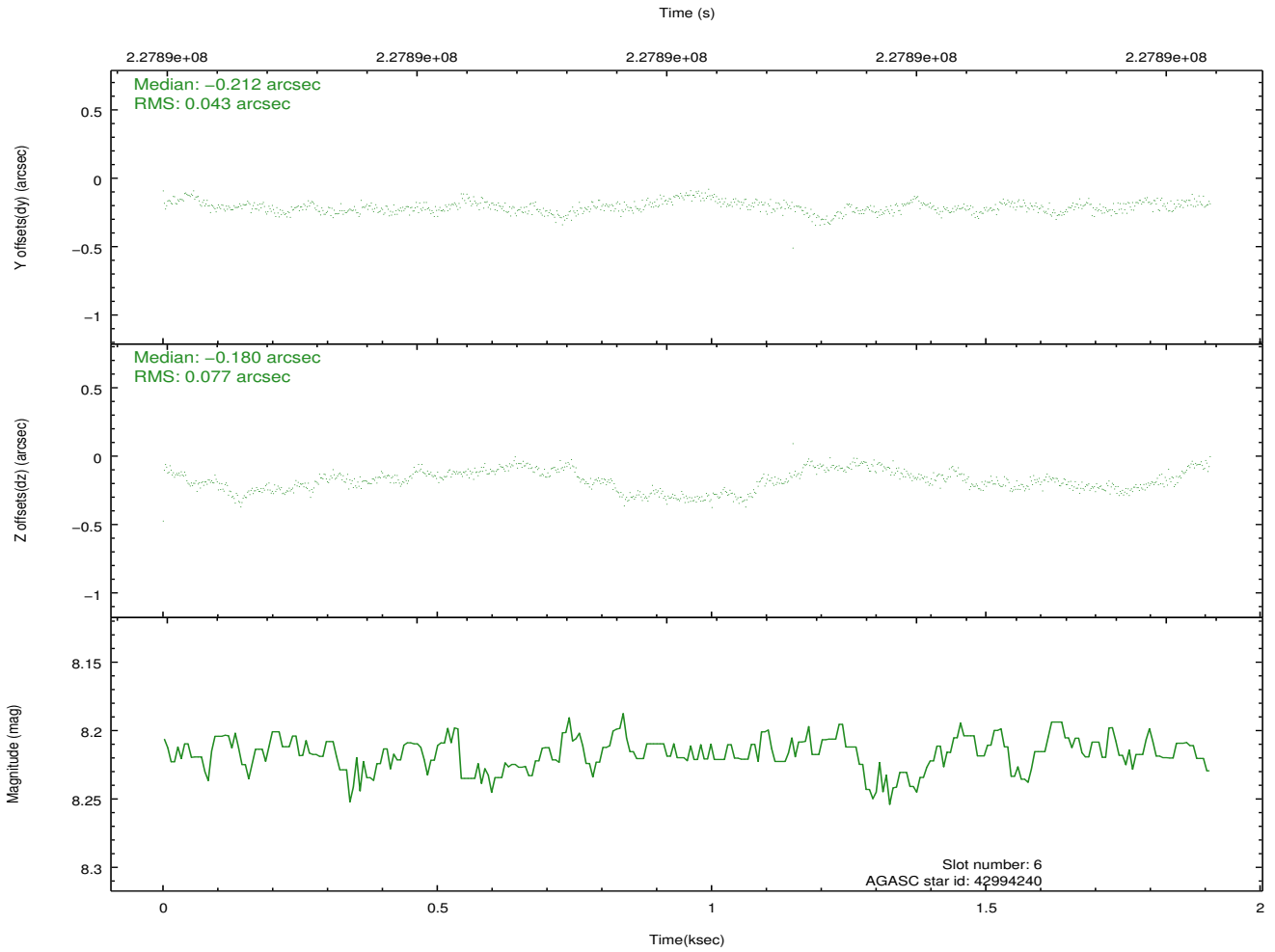
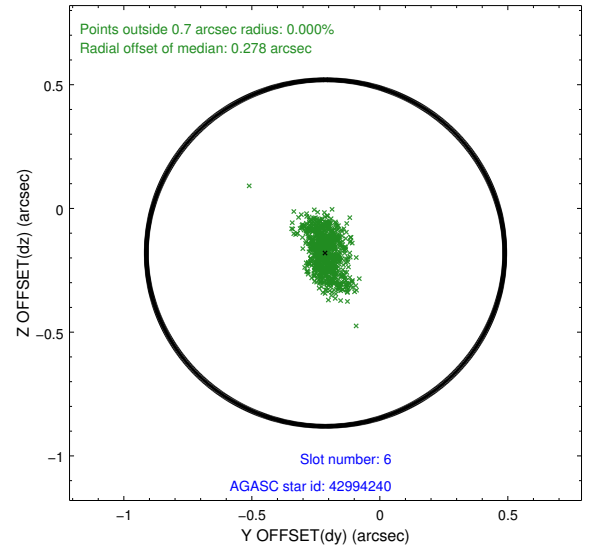
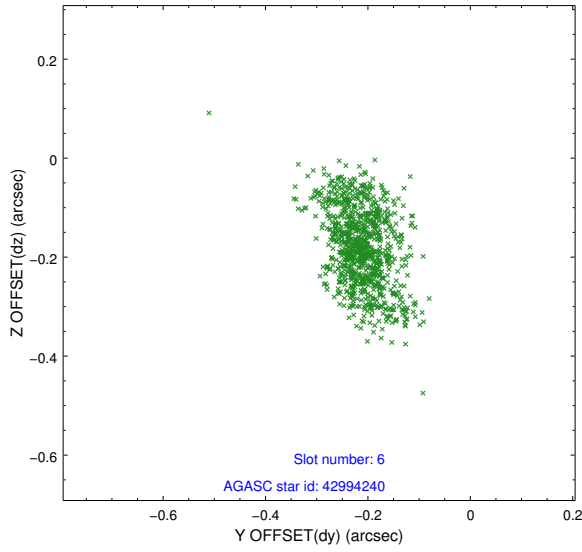
## 2.4.2 Slot 4



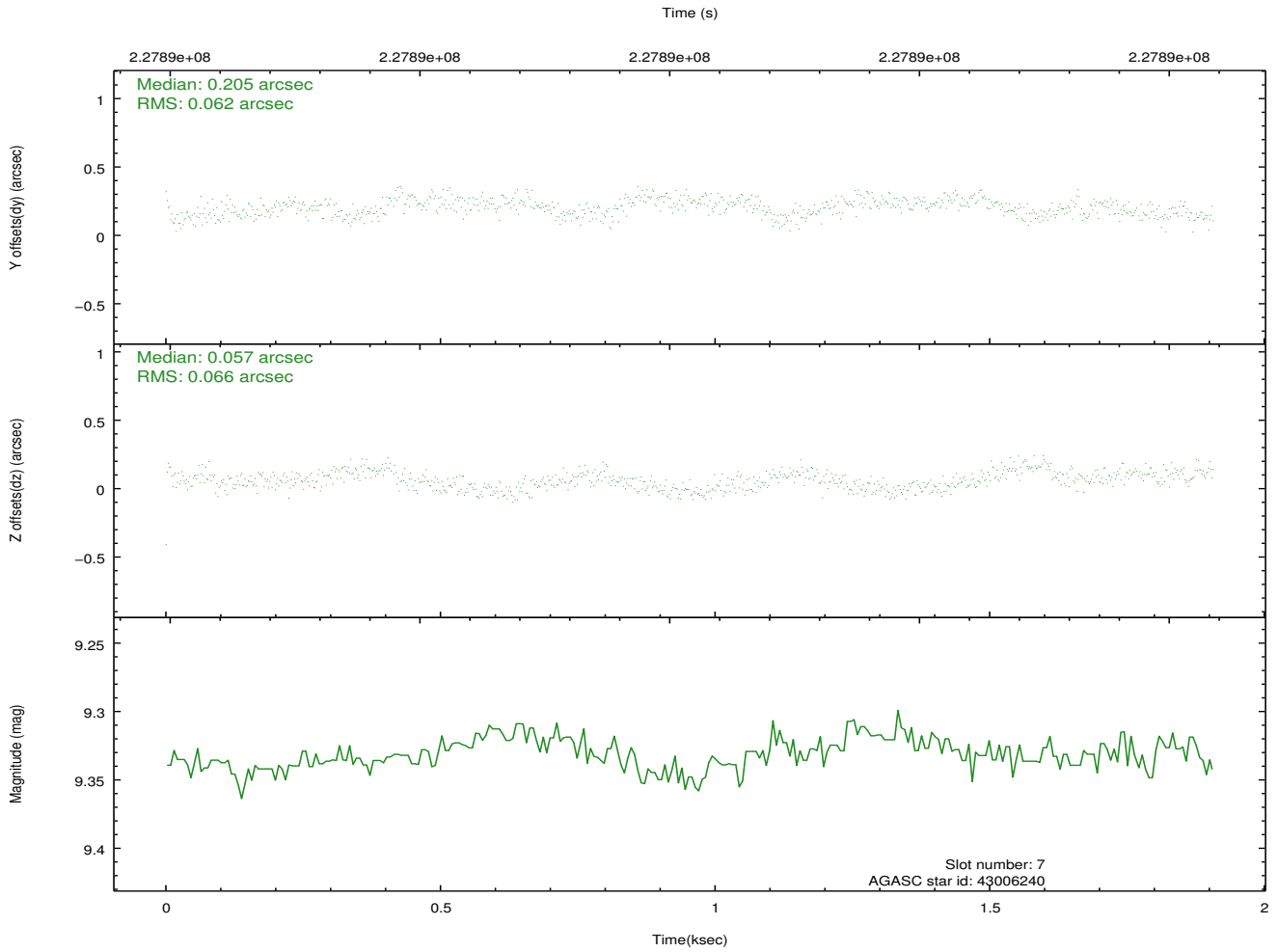
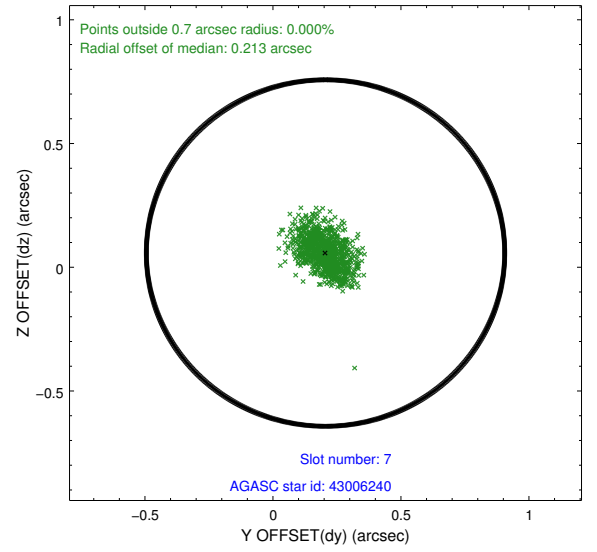
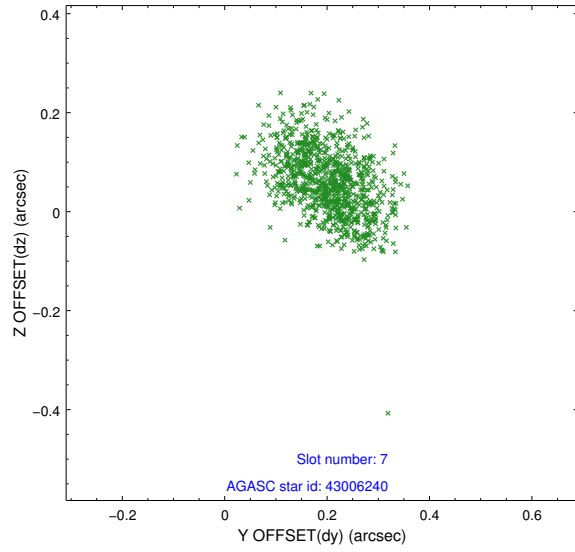
### 2.4.3 Slot 5



## 2.4.4 Slot 6

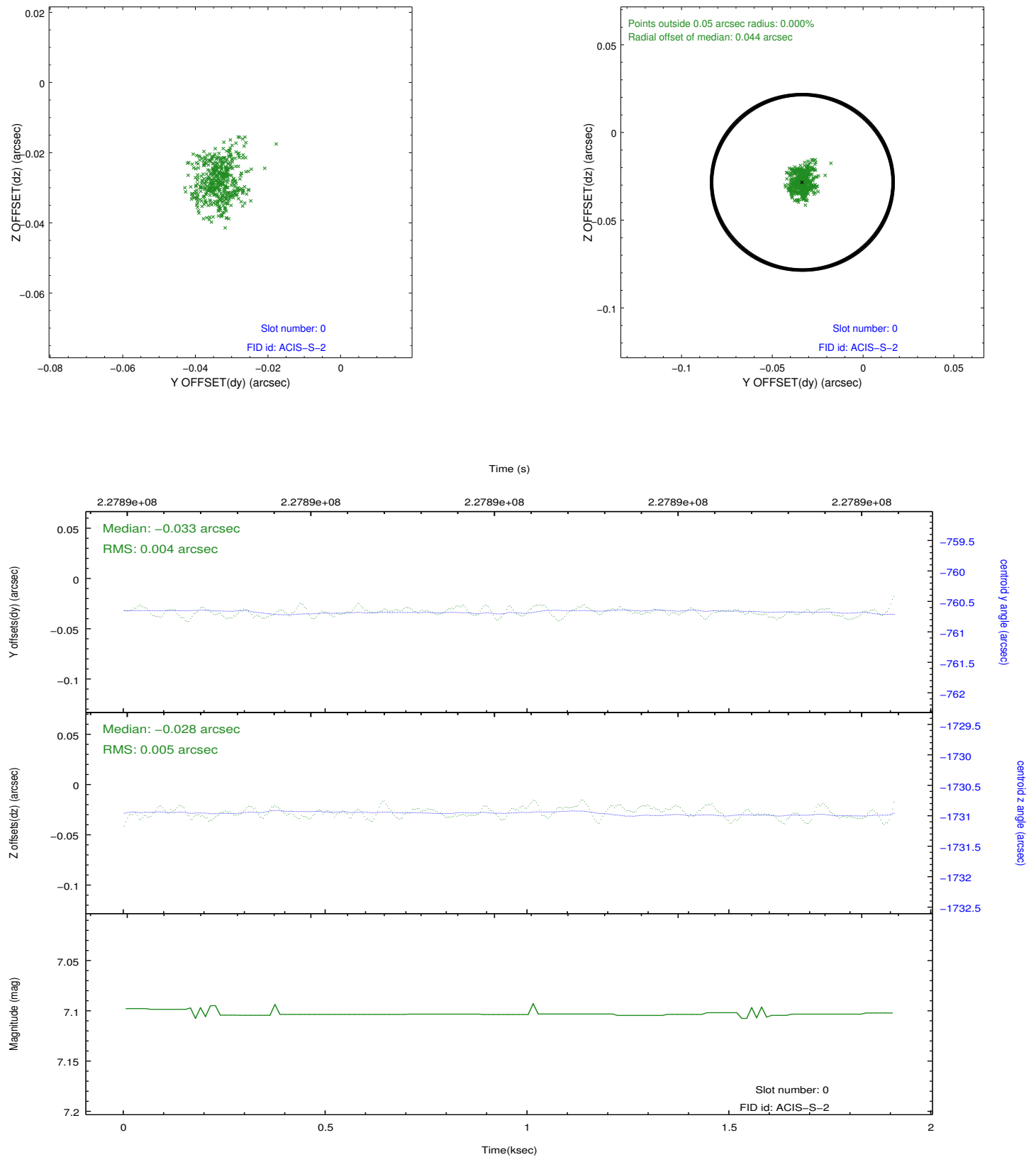


## 2.4.5 Slot 7

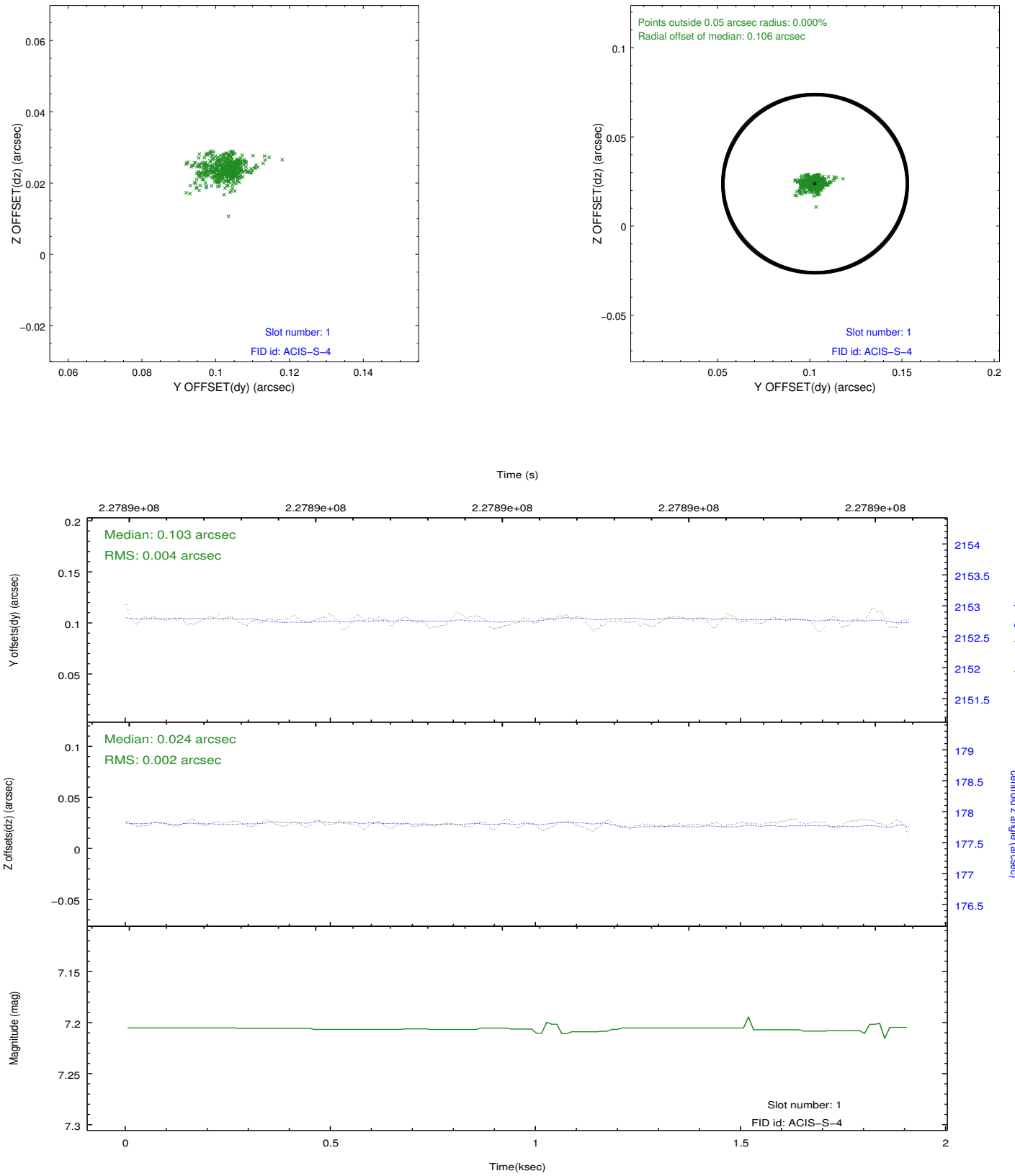


## 2.5 FID Slots

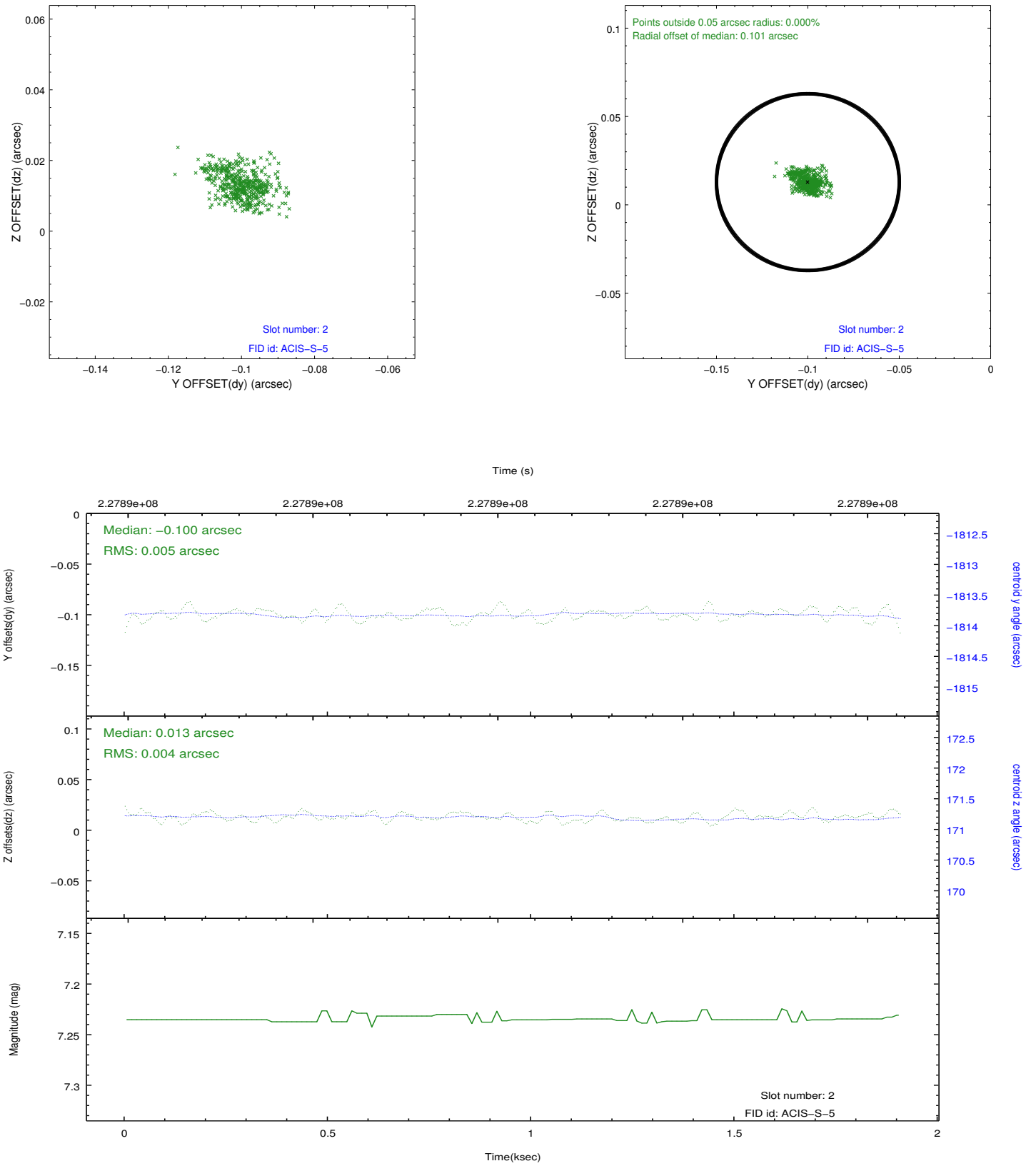
### 2.5.1 Slot 0



## 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)	2013.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.545599

### A.2 Comments