

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6884 - L2 Version 2  
Chandra X-Ray Center

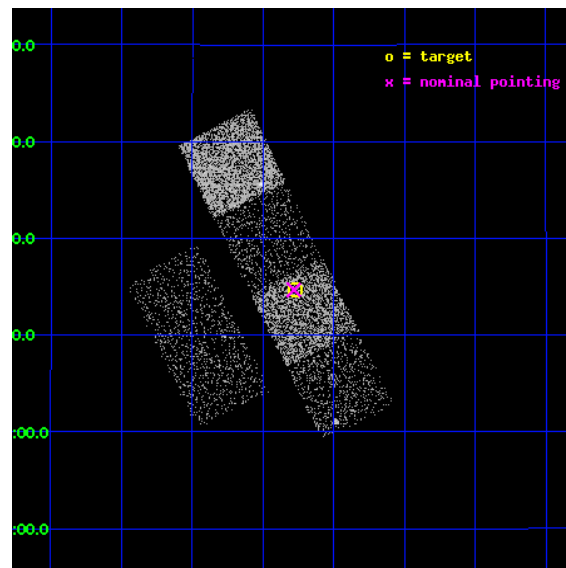
L2 Processing Date : Apr 12 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

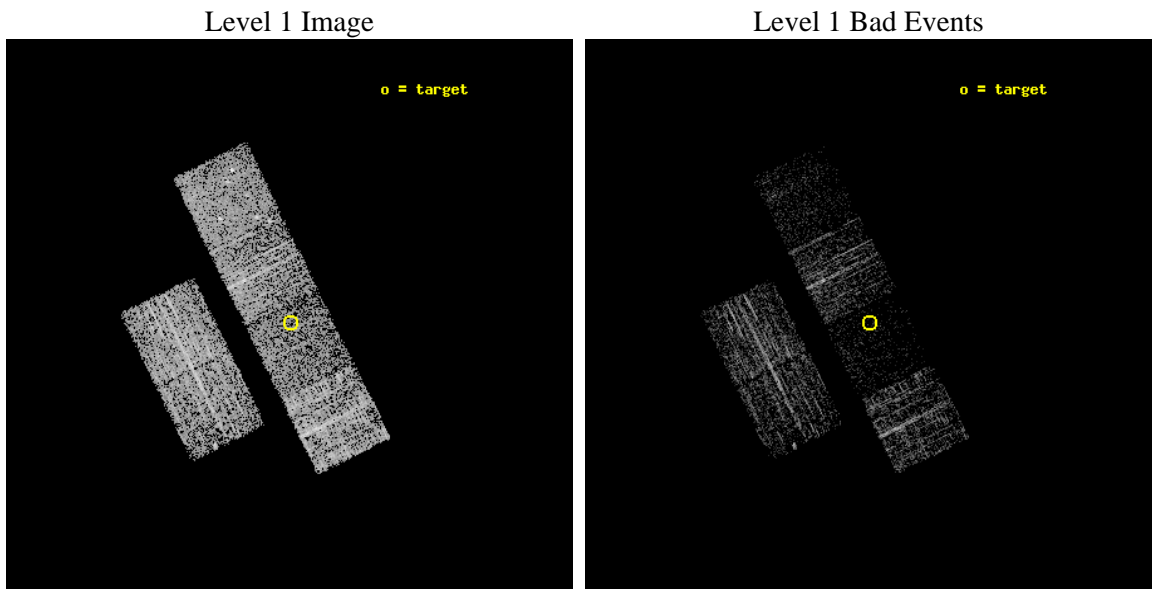
seq_num	701301	Sequence number
obs_id	6884	Observation id
title	A Uniform Chandra Survey of the Brightest and Most Extreme SDSS BALQSOs	Proposal title
observer	Dr. Scott Anderson	Principal investigator
object	SDSS J111316.42+091439.0	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.318333	Observer's specified target RA [deg]
dec_targ	9.244167	Observer's specified target Dec [deg]
ra_nom	168.32046891779	Nominal RA [deg]
dec_nom	9.2446291477164	Nominal Dec [deg]
roll_nom	63.731762257852	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1622.3999940157	Sum of GTIs [s]
livetime	1601.8561883995	Livetime [s]
ontime2	1619.1590136886	Sum of GTIs [s]
ontime3	1622.3999940157	Sum of GTIs [s]
ontime5	1622.3999940157	Sum of GTIs [s]
ontime6	1622.3999940157	Sum of GTIs [s]
ontime7	1622.3999940157	Sum of GTIs [s]
ontime8	1622.3999940157	Sum of GTIs [s]
l2events	11230	Number of level 2 events



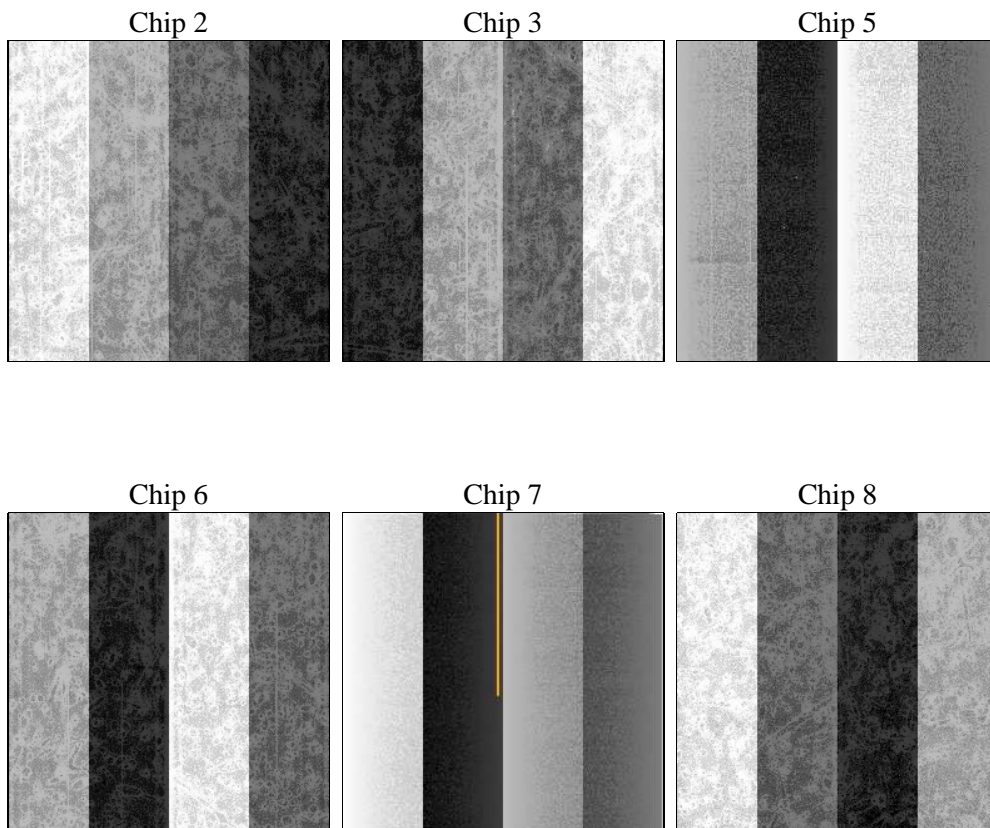
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	1622.3999940157	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	1619.1590136886	Sum of GTIs [s]
date	2012-04-12T08:40:27	Date and time of file creation	ontime3	1622.3999940157	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	1622.3999940157	Sum of GTIs [s]
			ontime6	1622.3999940157	Sum of GTIs [s]
			ontime7	1622.3999940157	Sum of GTIs [s]
			ontime8	1622.3999940157	Sum of GTIs [s]
			l1events	67469	Number of level 1 events

### 2.1.4 Events

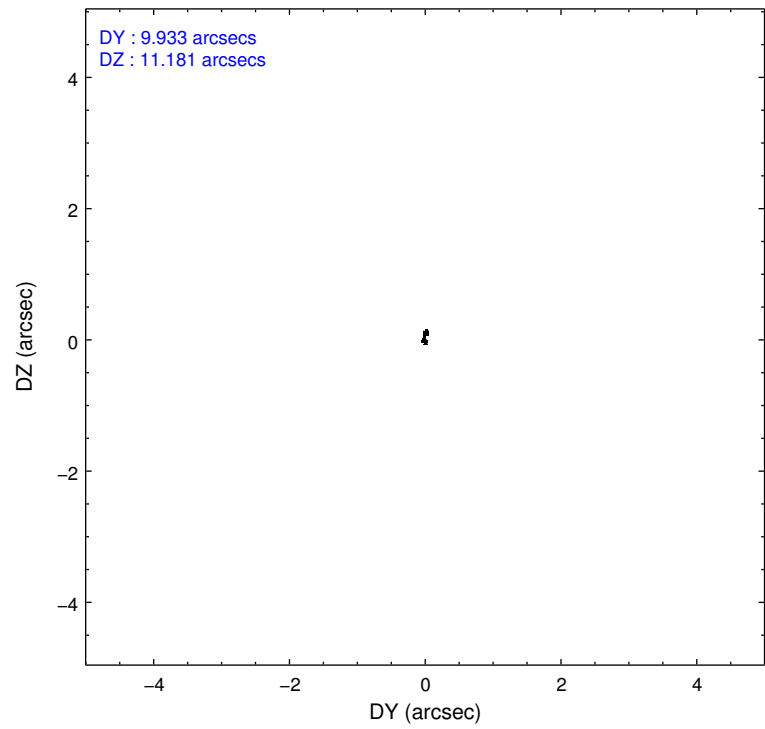
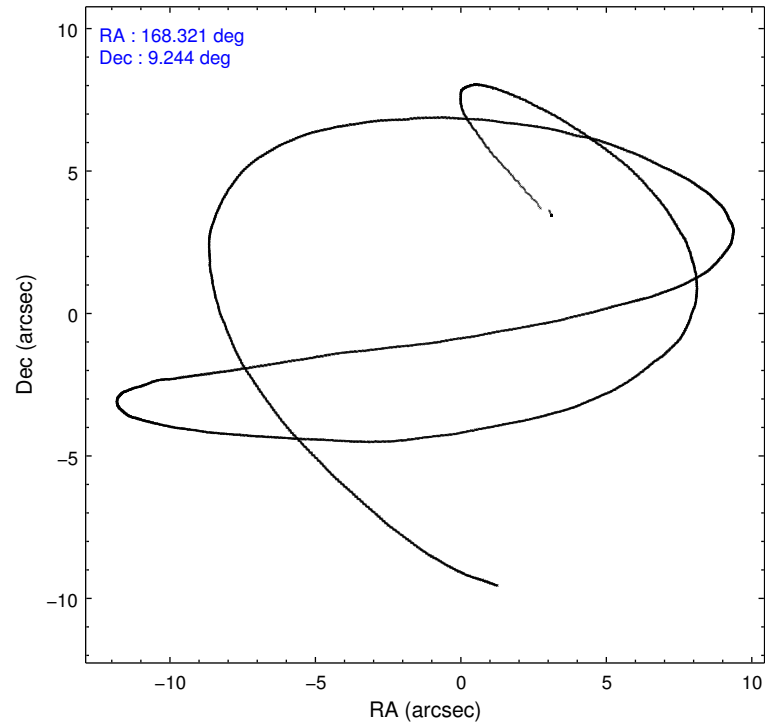
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13612	11314	10491	11064	6366	14622
rejected events	12767	10523	4561	10167	3015	11507
rejected %	93%	93%	43%	91%	47%	78%

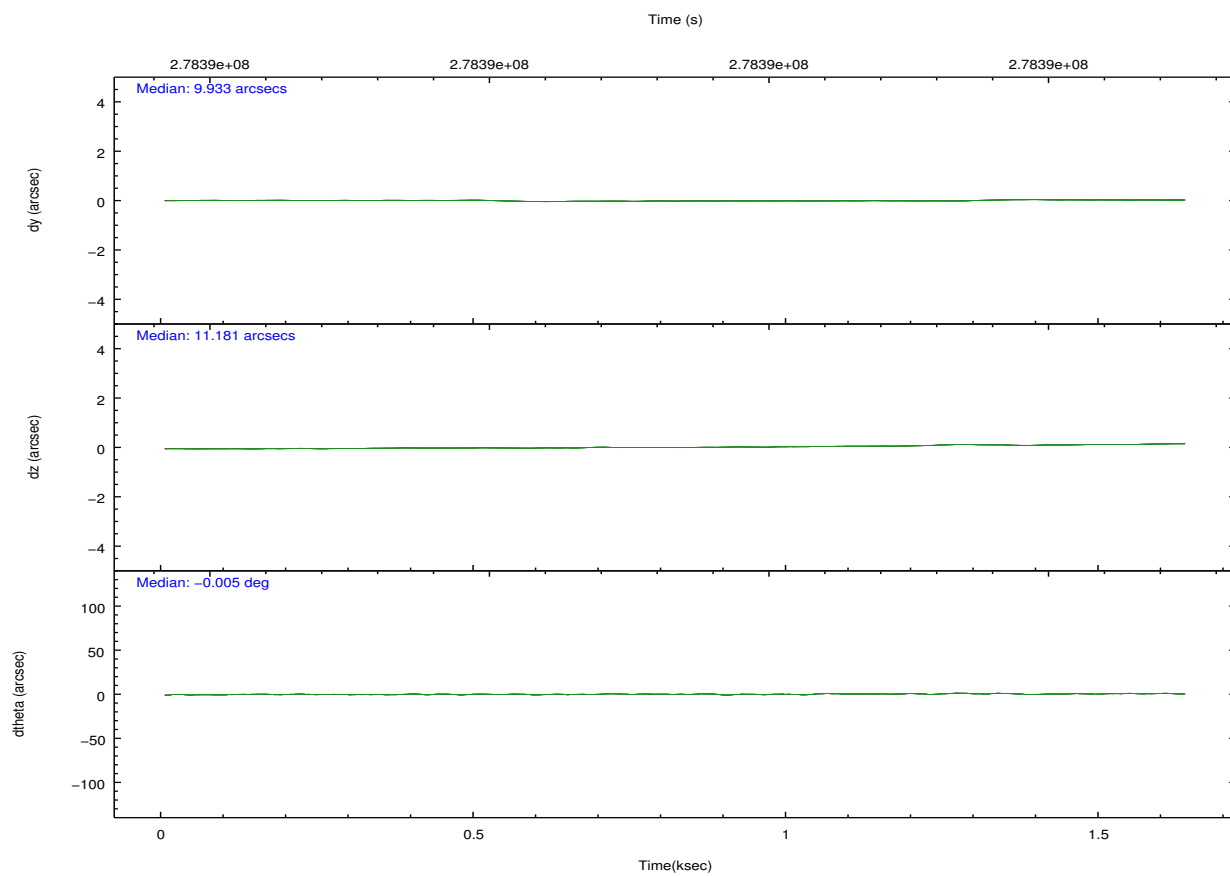
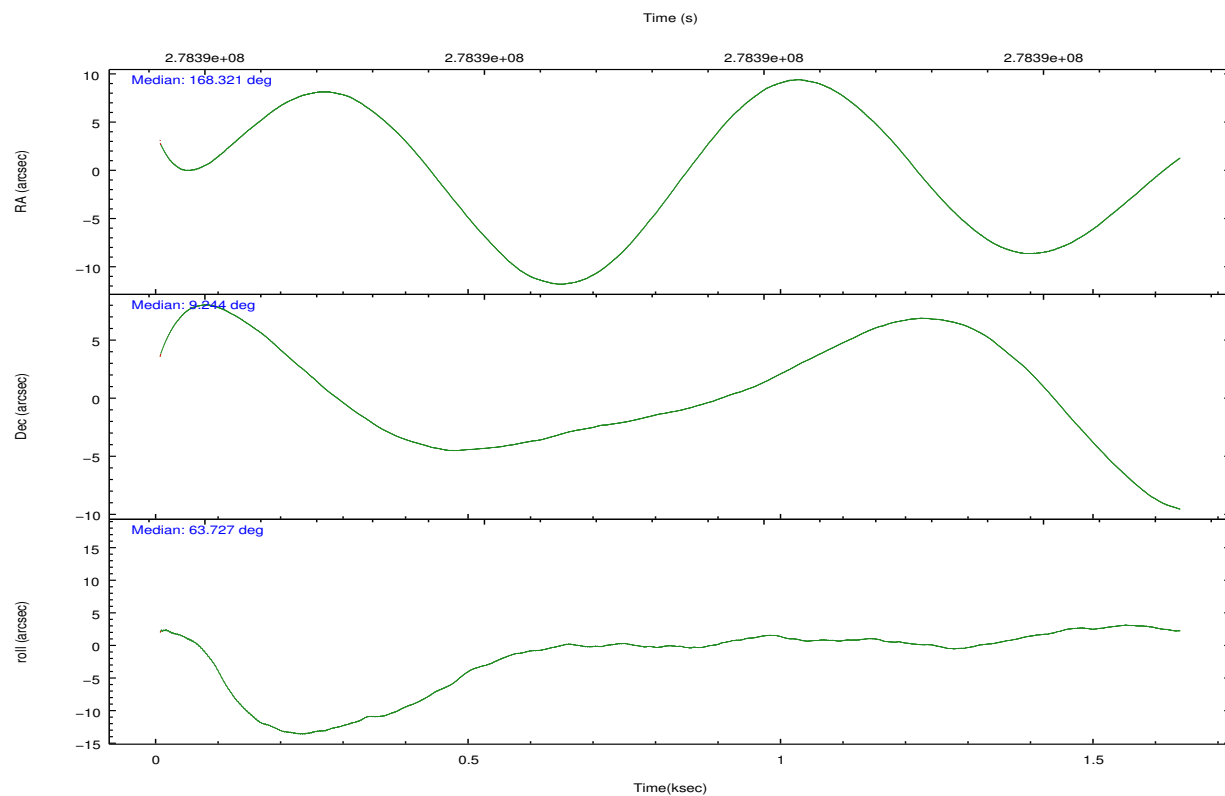
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	367	361	1182	408	521	1022
	2%	3%	11%	3%	8%	6%
grade 1 events	9	5	58	6	13	6
	0%	0%	0%	0%	0%	0%
grade 2 events	227	149	2063	223	878	765
	1%	1%	19%	2%	13%	5%
grade 3 events	122	112	309	101	376	354
	0%	0%	2%	0%	5%	2%
grade 4 events	88	108	320	106	365	271
	0%	0%	3%	0%	5%	1%
grade 5 events	170	206	812	184	660	392
	1%	1%	7%	1%	10%	2%
grade 6 events	128	130	2643	165	1557	925
	0%	1%	25%	1%	24%	6%
grade 7 events	12501	10243	3104	9871	1996	10887
	91%	90%	29%	89%	31%	74%

## 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	168.322580	168.320468917794	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.217397	9.244629147716404	Alternating exposures requested	N	N
[deg] Pointing Roll	63.574818	63.73176225785224	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	278386155.184000	278385034.31484			
Observation start date	2006-10-28T01:28:10	2006-10-28T01:10:34			
[s] Observation end time (MET)	278387655.184000	278389186.07753			
Observation end date	2006-10-28T01:53:10	2006-10-28T02:19:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect





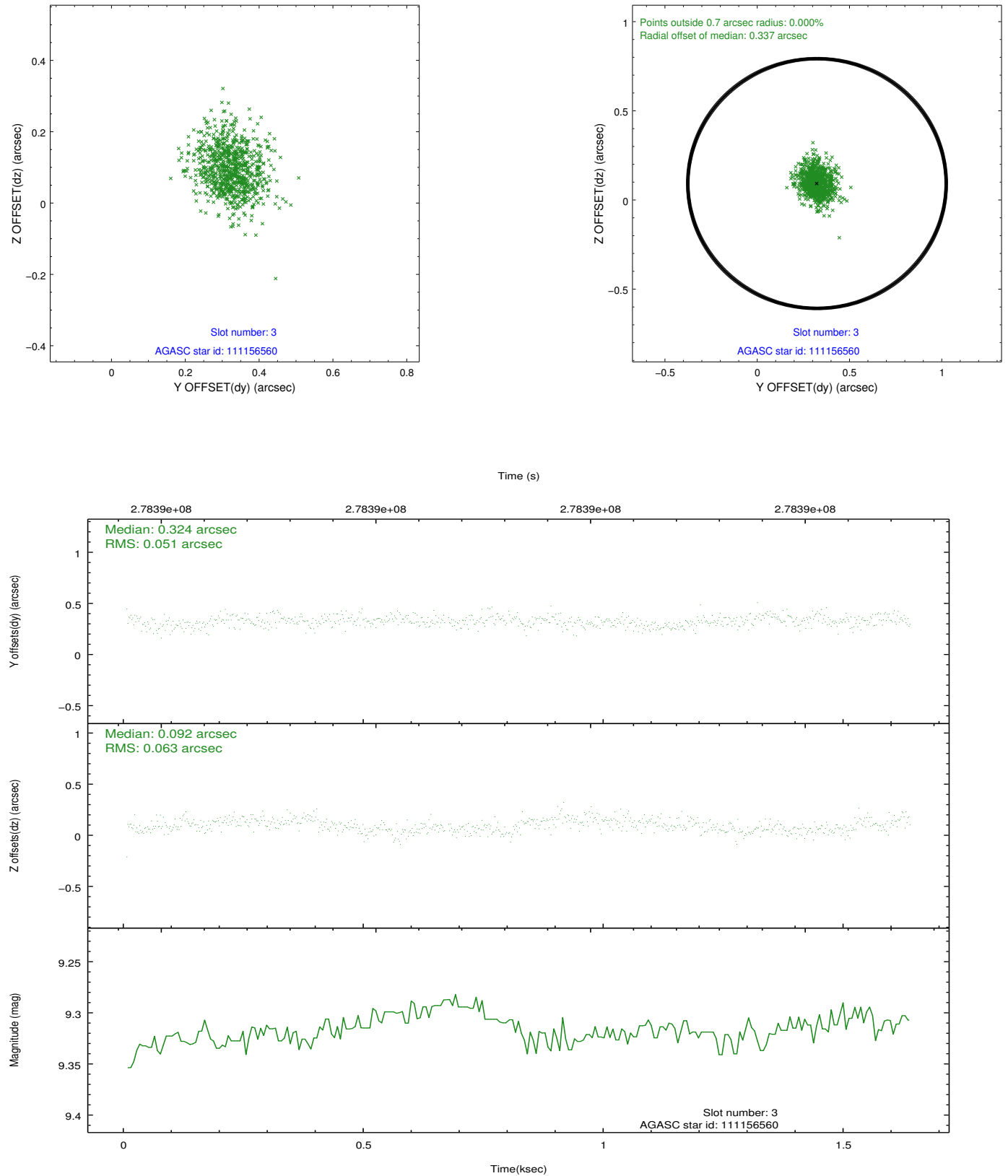
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	399	-0.053	-0.022	0.007	0.013	0.000000	0.000000	-762.80	-1732.46
1	FID	ACIS-S-4	7.21	399	0.158	0.031	0.006	0.011	0.000000	0.000000	2148.83	171.93
2	FID	ACIS-S-5	7.23	399	-0.136	-0.001	0.007	0.012	0.000000	0.000000	-1810.56	170.12
3	GUIDE	111156560	9.32	793	0.324	0.092	0.083	0.144	168.250782	8.593459	-2124.86	-770.66
4	GUIDE	111158024	8.08	797	-0.116	-0.247	0.087	0.136	168.179247	9.865731	1861.10	1493.23
5	GUIDE	111160288	9.63	797	-0.087	-0.206	0.147	0.213	168.020770	9.652583	928.67	1658.70
6	GUIDE	112072208	9.40	795	-0.155	0.195	0.091	0.145	168.863053	9.302624	1131.76	-1579.75
7	GUIDE	112073744	9.69	792	0.039	0.169	0.116	0.191	169.071230	9.252557	1301.36	-2326.14

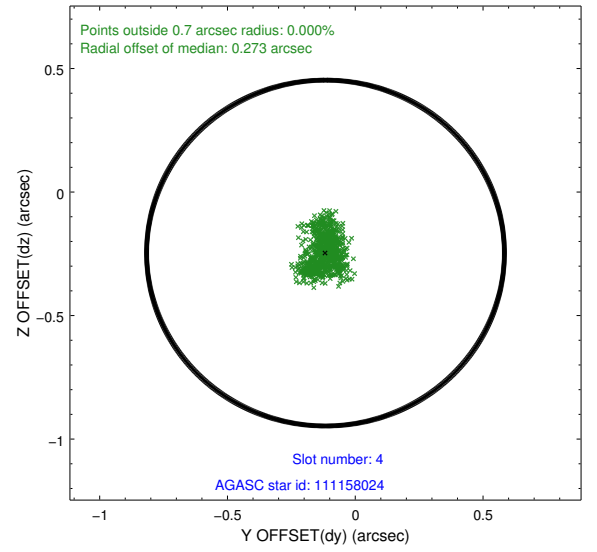
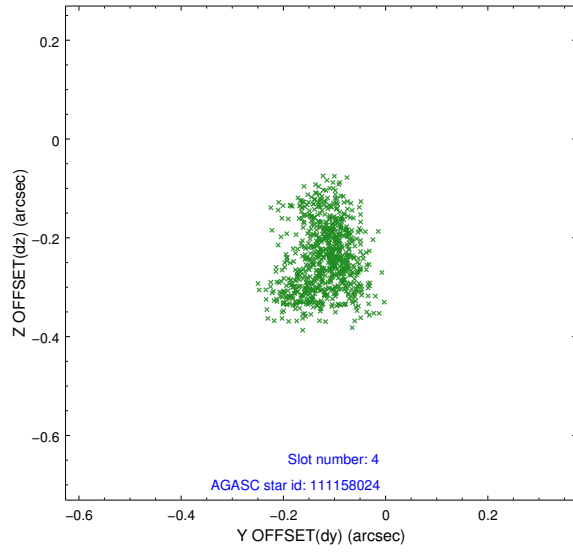


## 2.4 Star Slots

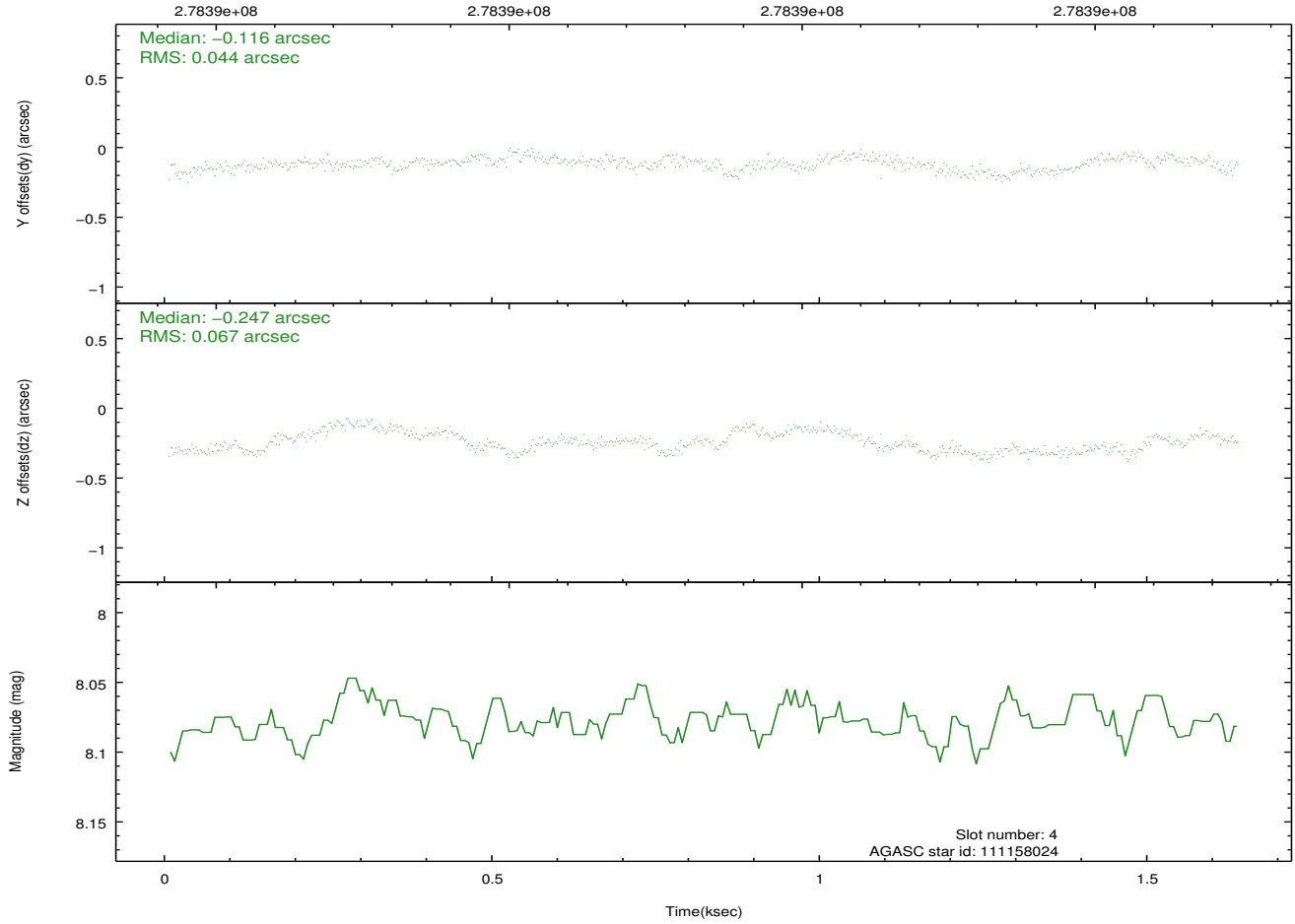
### 2.4.1 Slot 3



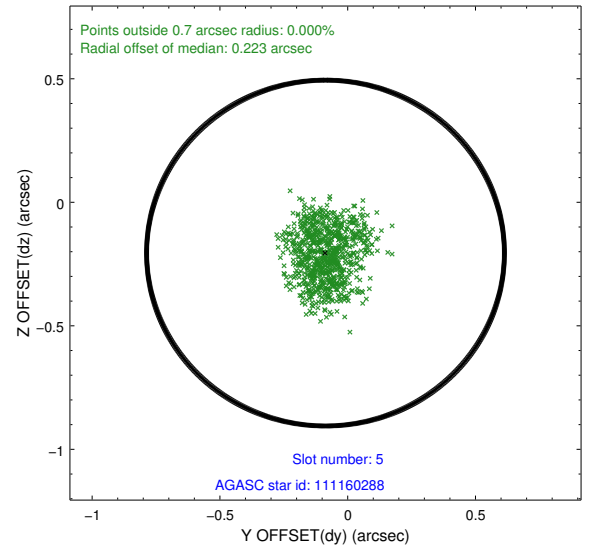
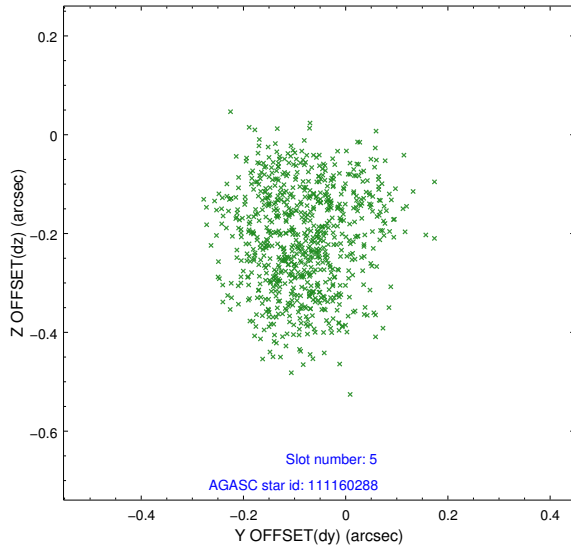
## 2.4.2 Slot 4



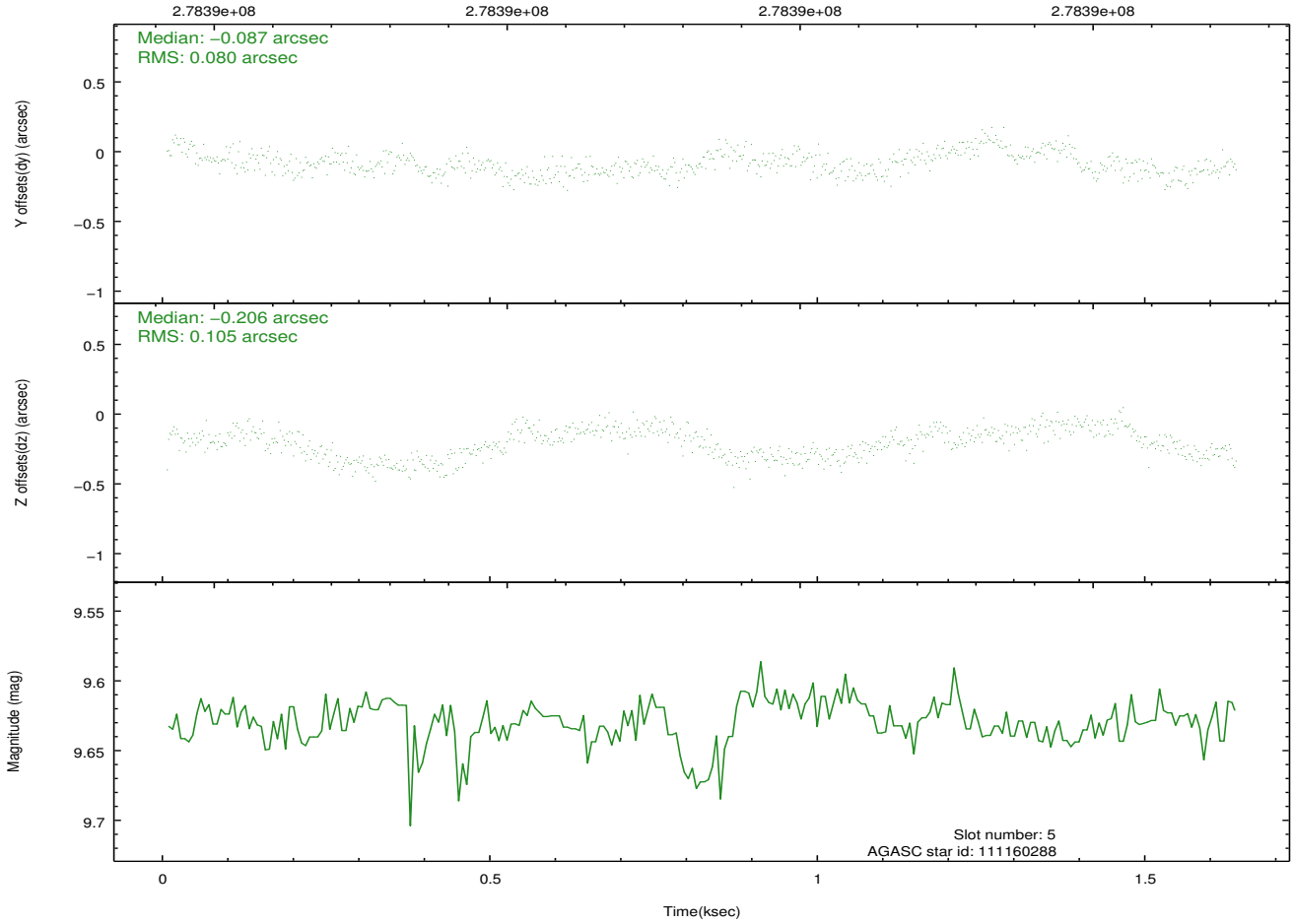
Time (s)



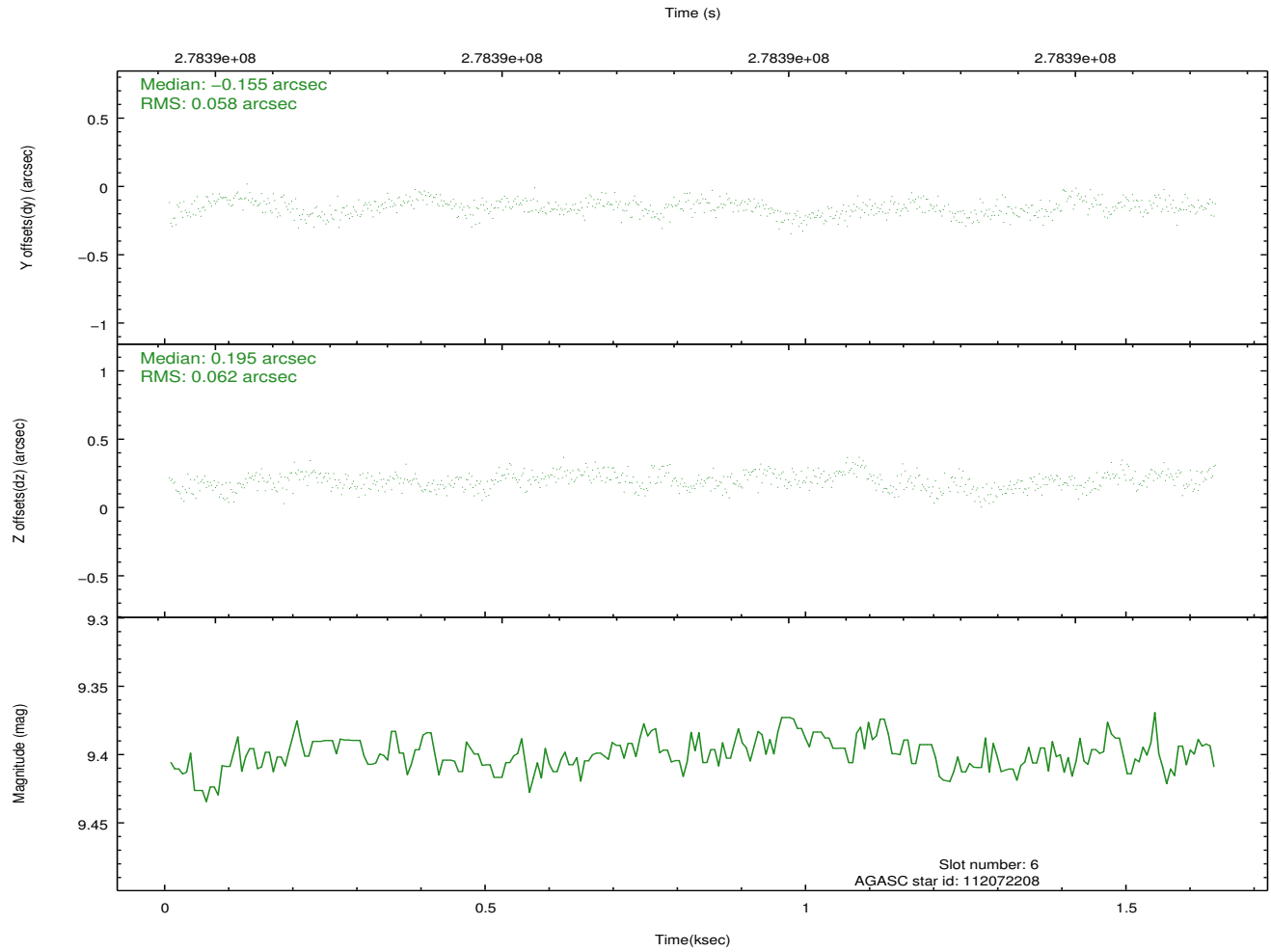
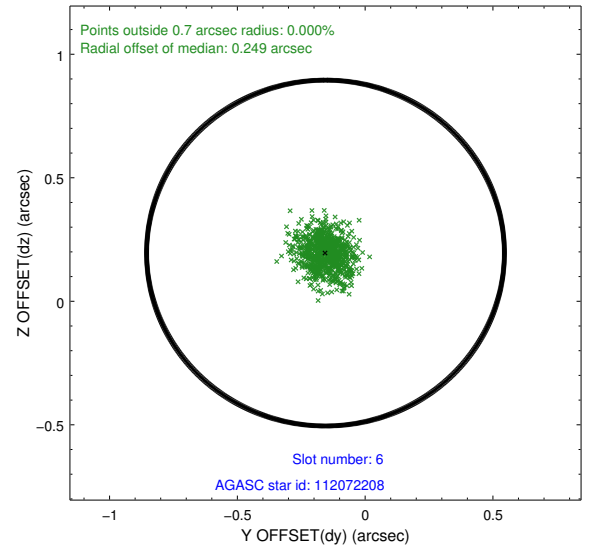
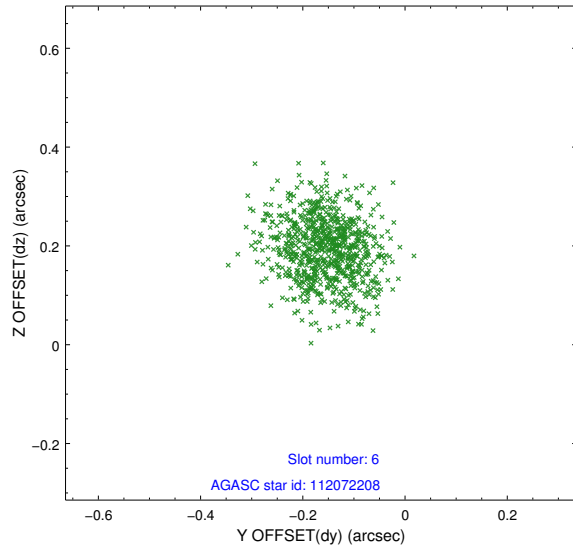
### 2.4.3 Slot 5



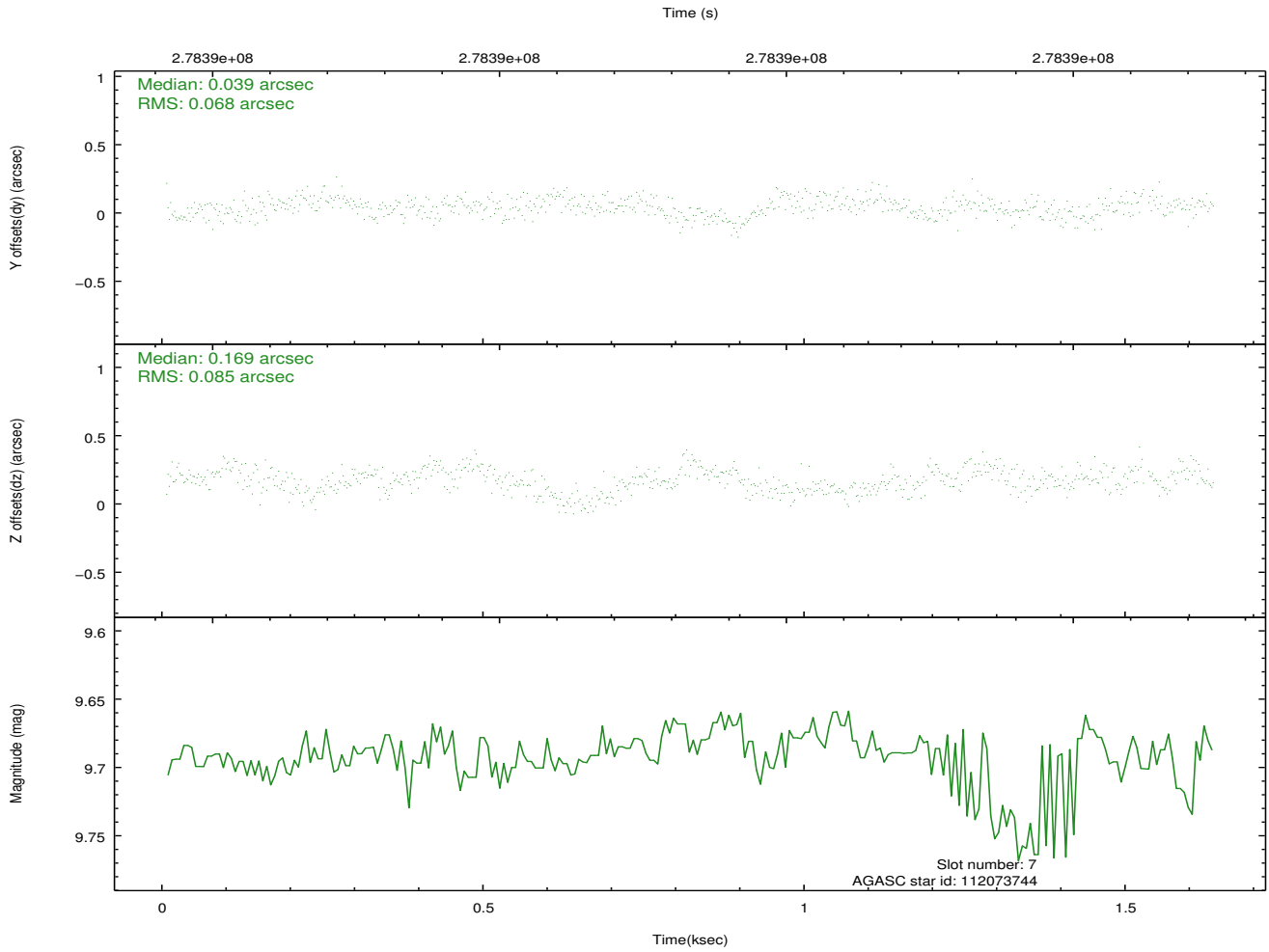
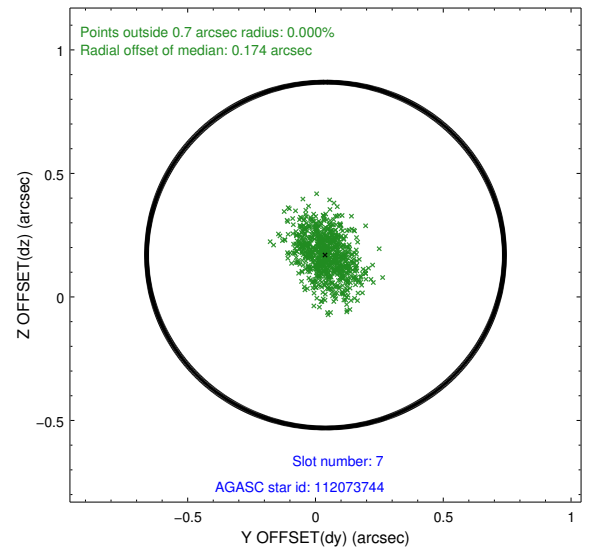
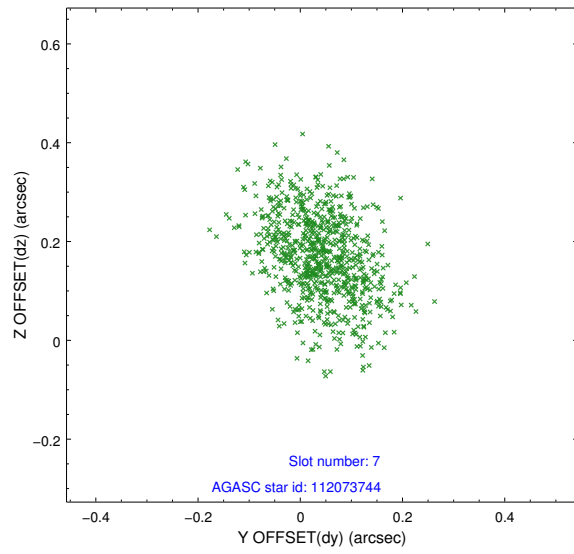
Time (s)



## 2.4.4 Slot 6

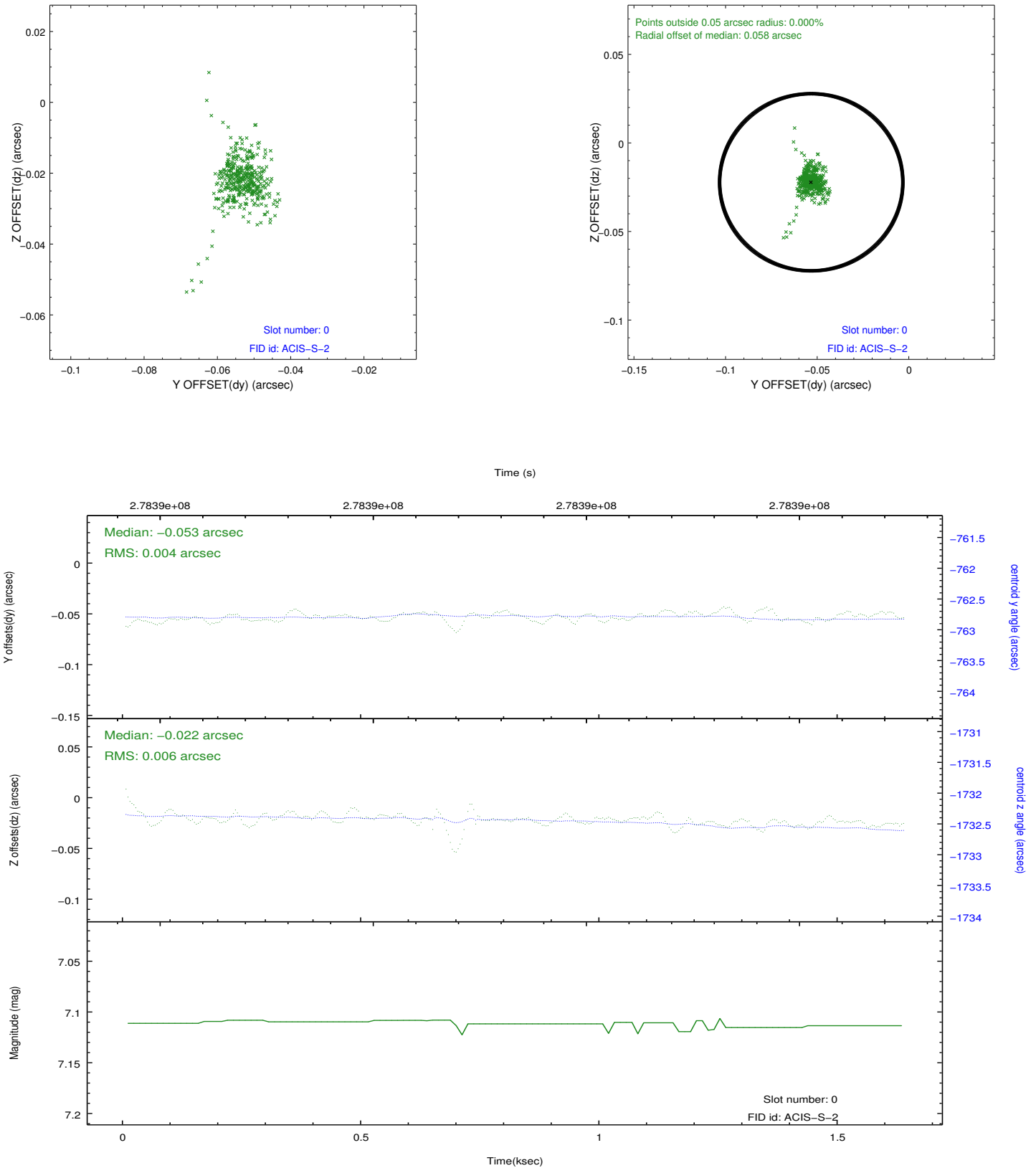


## 2.4.5 Slot 7

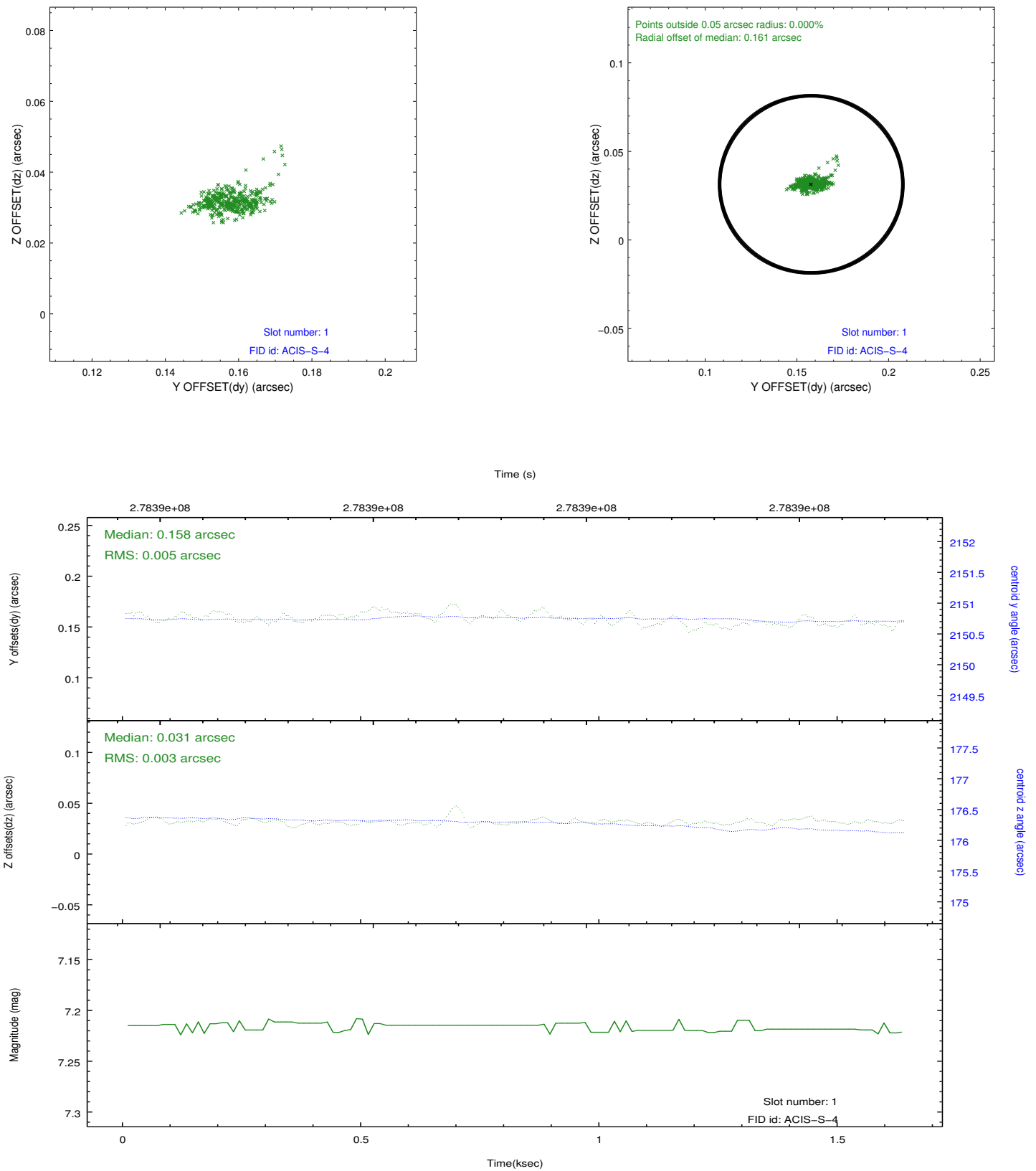


## 2.5 FID Slots

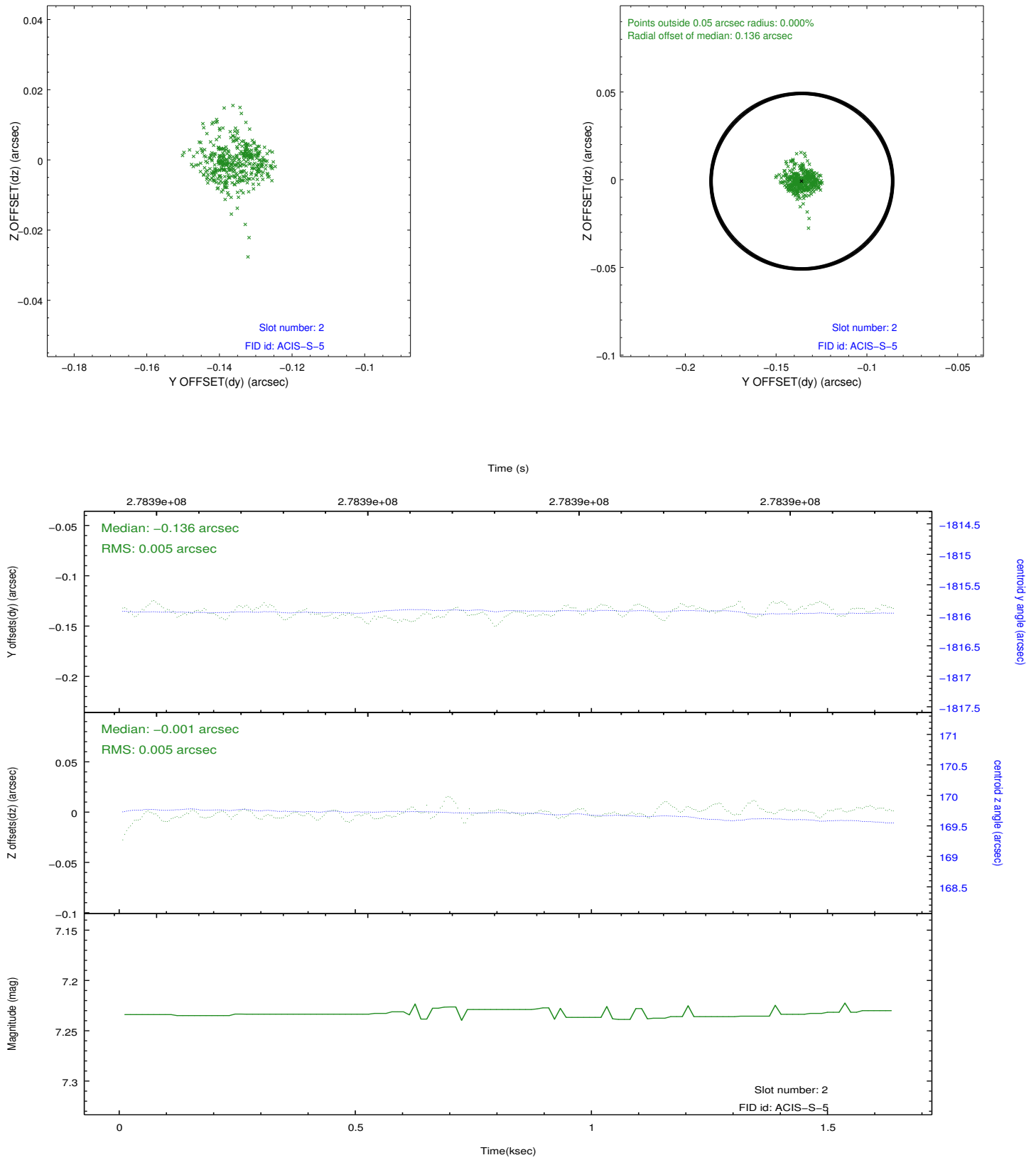
### 2.5.1 Slot 0



## 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)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.62239999

### A.2 Comments