

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 1840 - L2 Version 001  
Chandra X-Ray Center

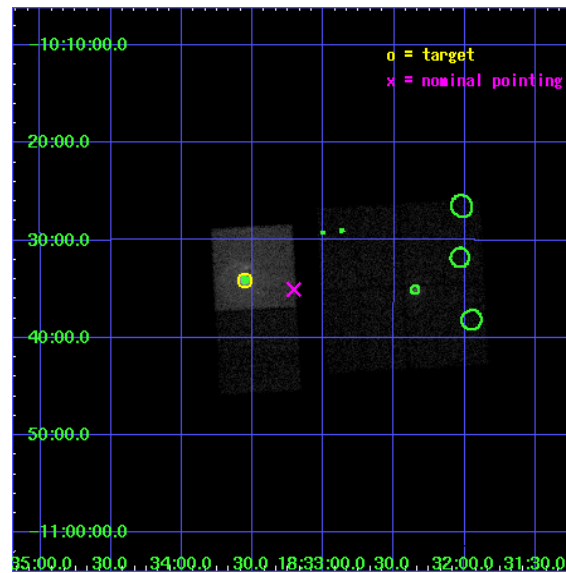
L2 Processing Date : Jun 6 2007

## 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>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

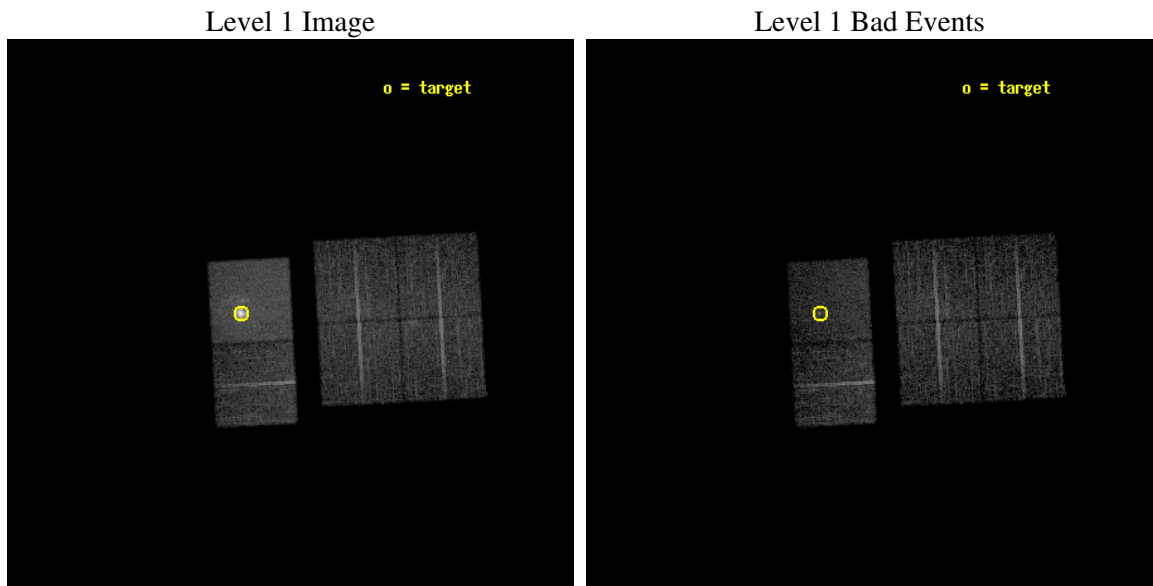
seq_num	590220
obs_id	1840
title	HRC RESPONSE TO CONTINUUM SOURCE.
observer	Dr. CXC Calibration
object	G21.5-0.9 [Chip S3, T=120, Offsets=-1,5,-4]
dtcycle	0
cycle	P
ra_targ	278.389583
dec_targ	-10.568528
ra_nom	278.30191911608
dec_nom	-10.584453266426
roll_nom	266.84307648253
revision	2
ontime	7756.8000072241
livetime	7658.5787349484
ontime0	7756.8000072241
ontime1	7756.8000072241
ontime2	7756.8000072241
ontime3	7753.5590469837
ontime6	7756.8000072241
ontime7	7756.8000072241
l2events	86878



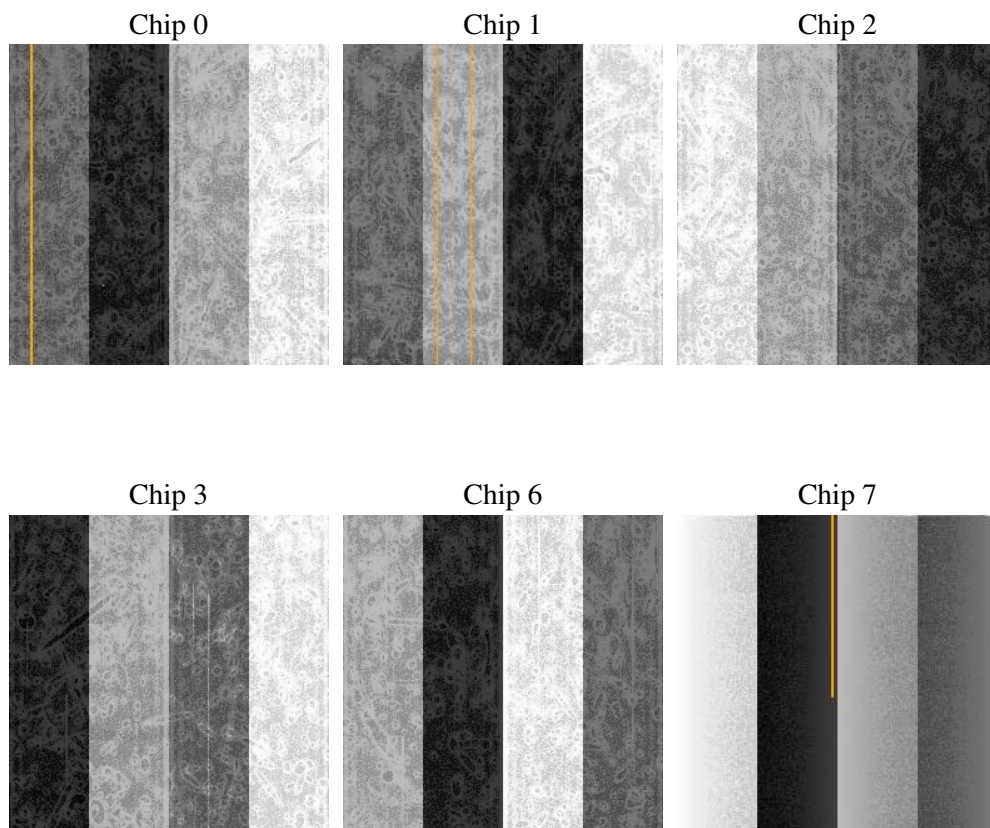
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-06T13:47:40
revision	2

sched_exp_time	8000.000000
ontime	7756.8000072241
ontime0	7756.8000072241
ontime1	7756.8000072241
ontime2	7756.8000072241
ontime3	7753.5590469837
ontime6	7756.8000072241
ontime7	7756.8000072241
l1events	326191

### 2.1.4 Events

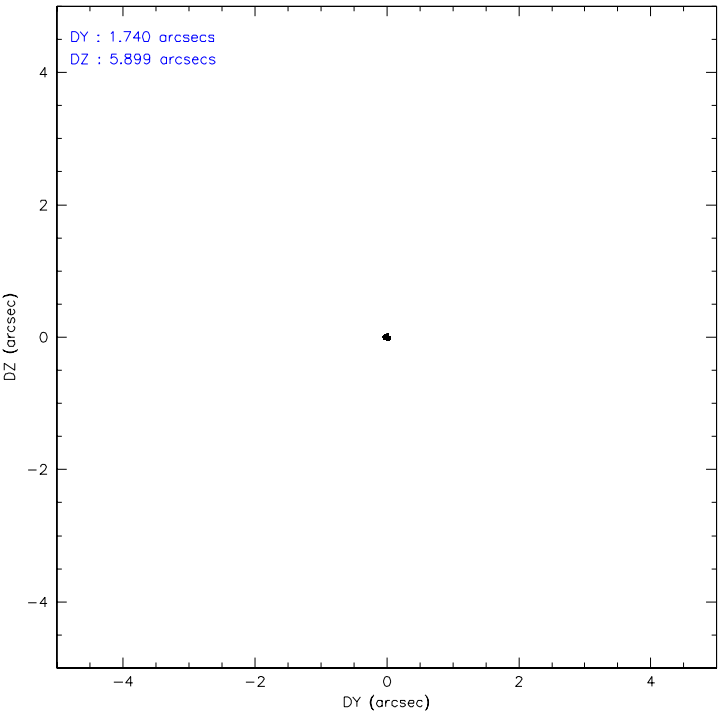
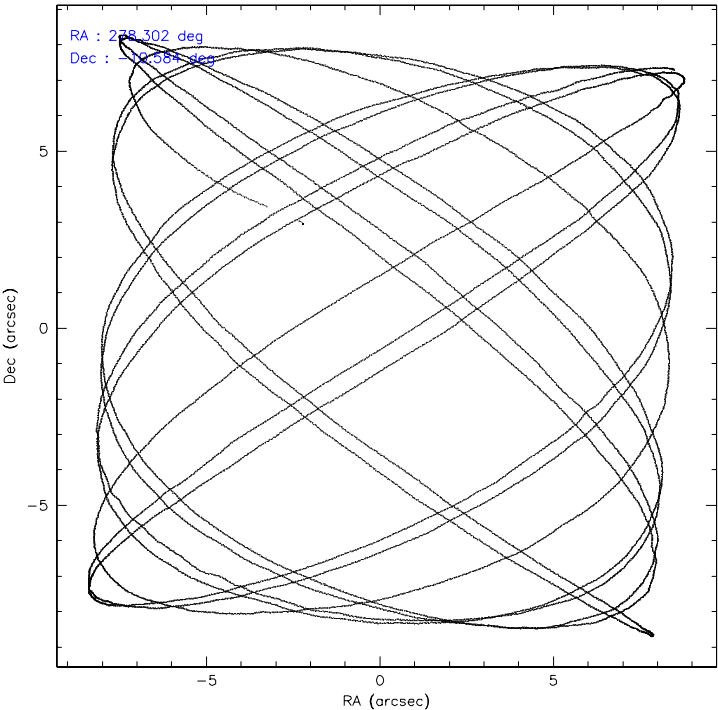
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	46021	43094	46687	47775	48379	94235
rejected events	39182	36588	40827	41714	41824	34165
rejected %	85%	84%	87%	87%	86%	36%

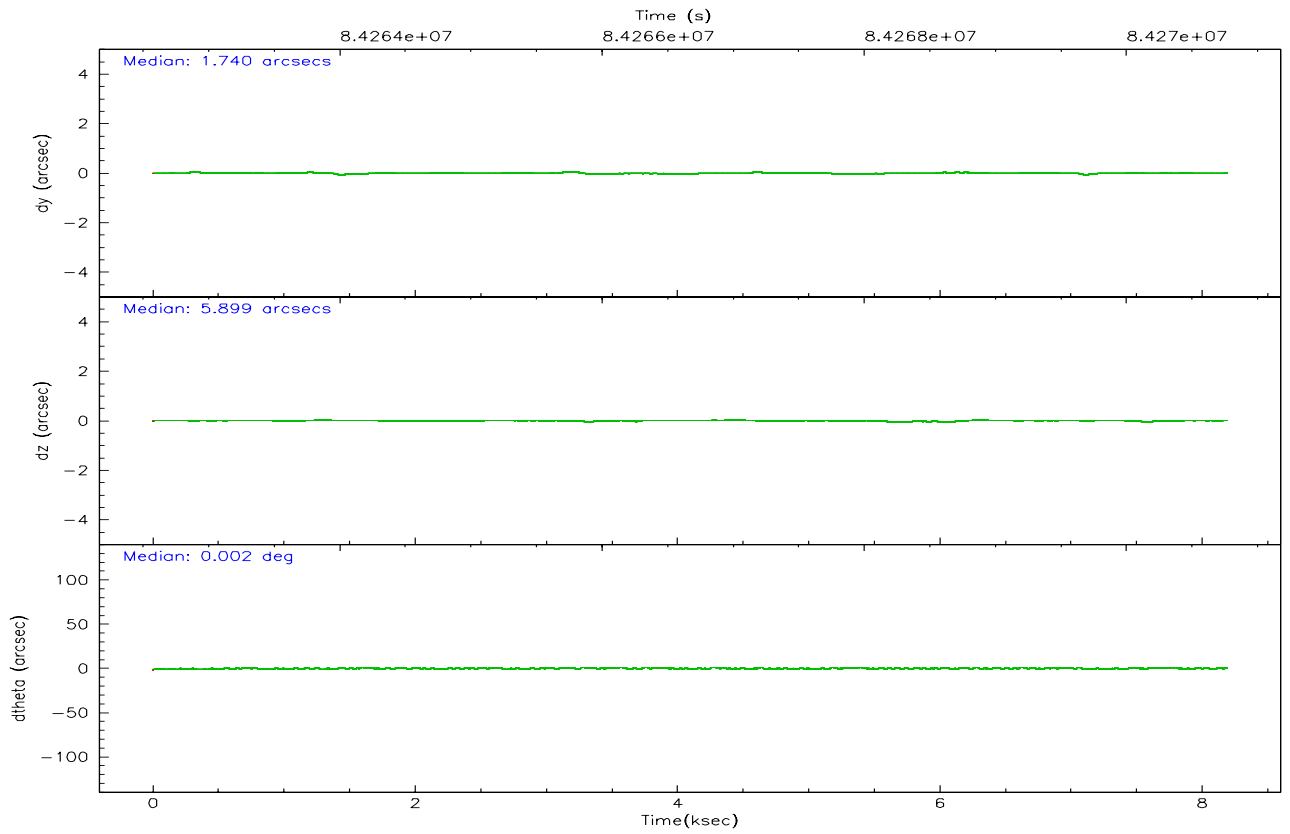
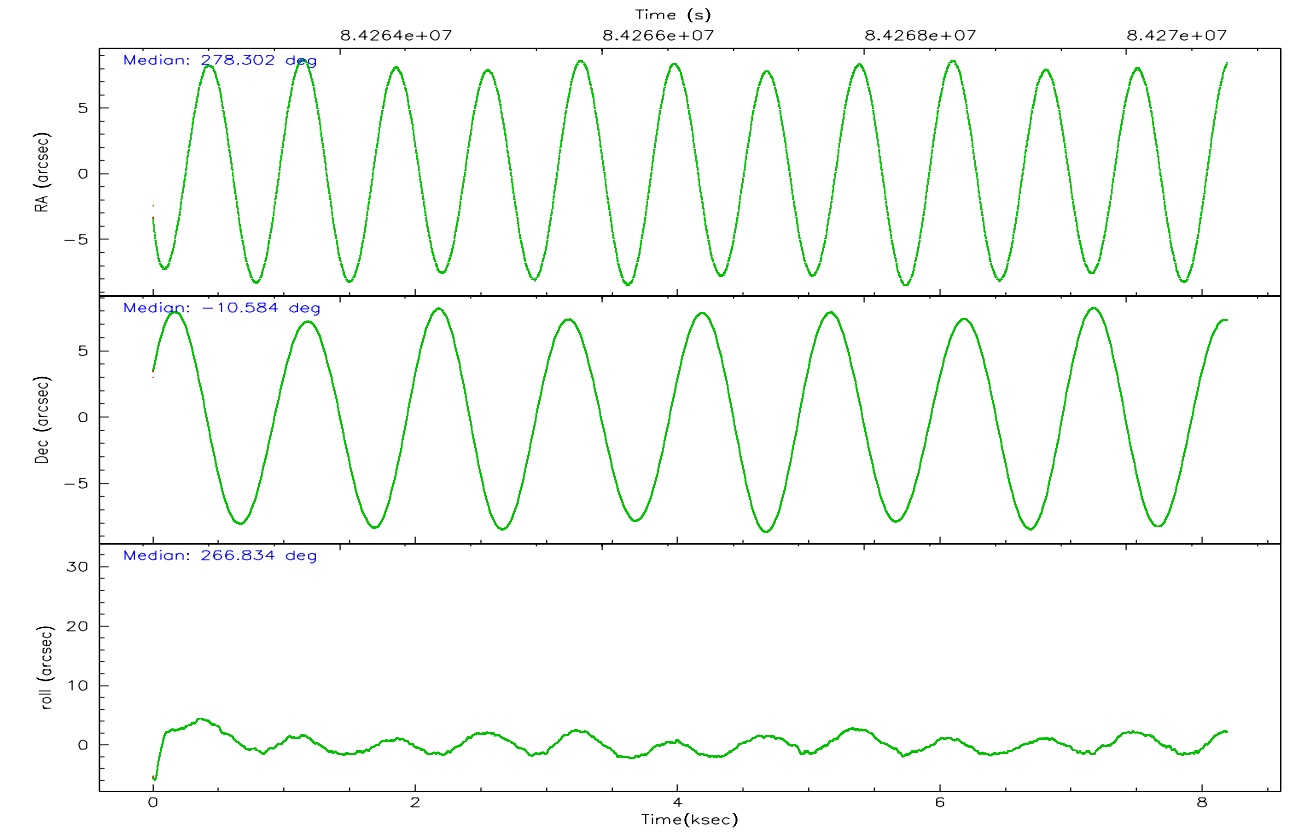
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3319	3058	2790	2934	3138	9580
	7%	7%	5%	6%	6%	10%
grade 1 events	27	19	16	35	29	107
	0%	0%	0%	0%	0%	0%
grade 2 events	1322	1217	1166	1118	1289	13223
	2%	2%	2%	2%	2%	14%
grade 3 events	627	622	477	542	559	6153
	1%	1%	1%	1%	1%	6%
grade 4 events	563	628	539	530	533	6058
	1%	1%	1%	1%	1%	6%
grade 5 events	1634	1656	1575	1642	1886	5877
	3%	3%	3%	3%	3%	6%
grade 6 events	1017	986	893	944	1039	25110
	2%	2%	1%	1%	2%	26%
grade 7 events	37512	34908	39231	40030	39906	28127
	81%	81%	84%	83%	82%	29%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	278.289202	278.3019191160796	Subarray requested	NONE	NONE
Pointing Dec	-10.560158	-10.58445326642579	Alternating exposures requested	N	N
Pointing Roll	266.684113	266.8430764825346	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-201.840523	-201.8467180939352			
SIM translation stage offset (mm)	11.708	11.71419551092742			
Observation start time	84262768.184000	84262392.10568			
Observation start date	2000-09-02T06:18:24	2000-09-02T06:13:12			
Observation end time	84270768.184000	84270902.16850001			
Observation end date	2000-09-02T08:31:44	2000-09-02T08:35:02			
Read mode	TIMED	TIMED			

2.3 Aspect



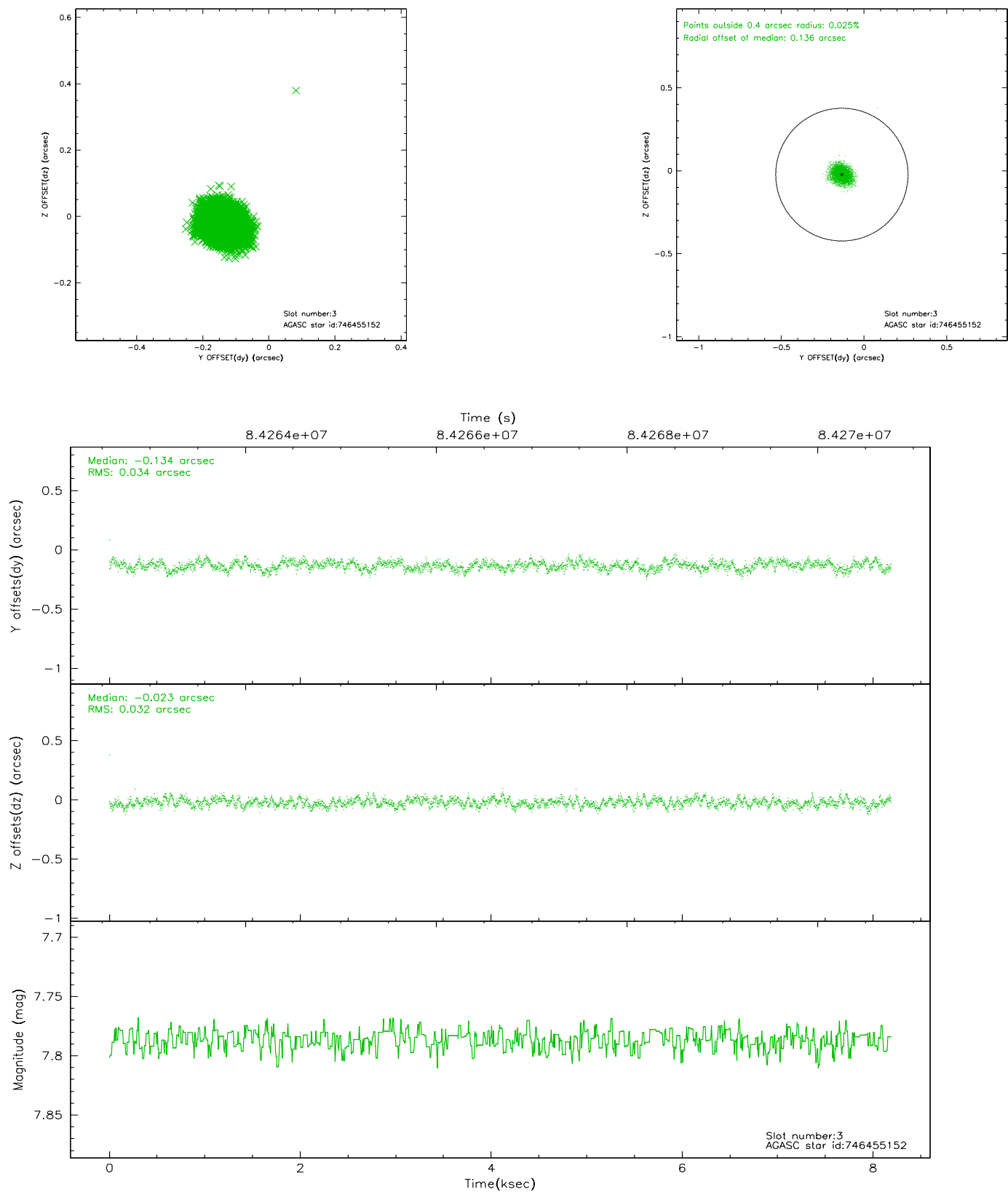


### Slot Statistics

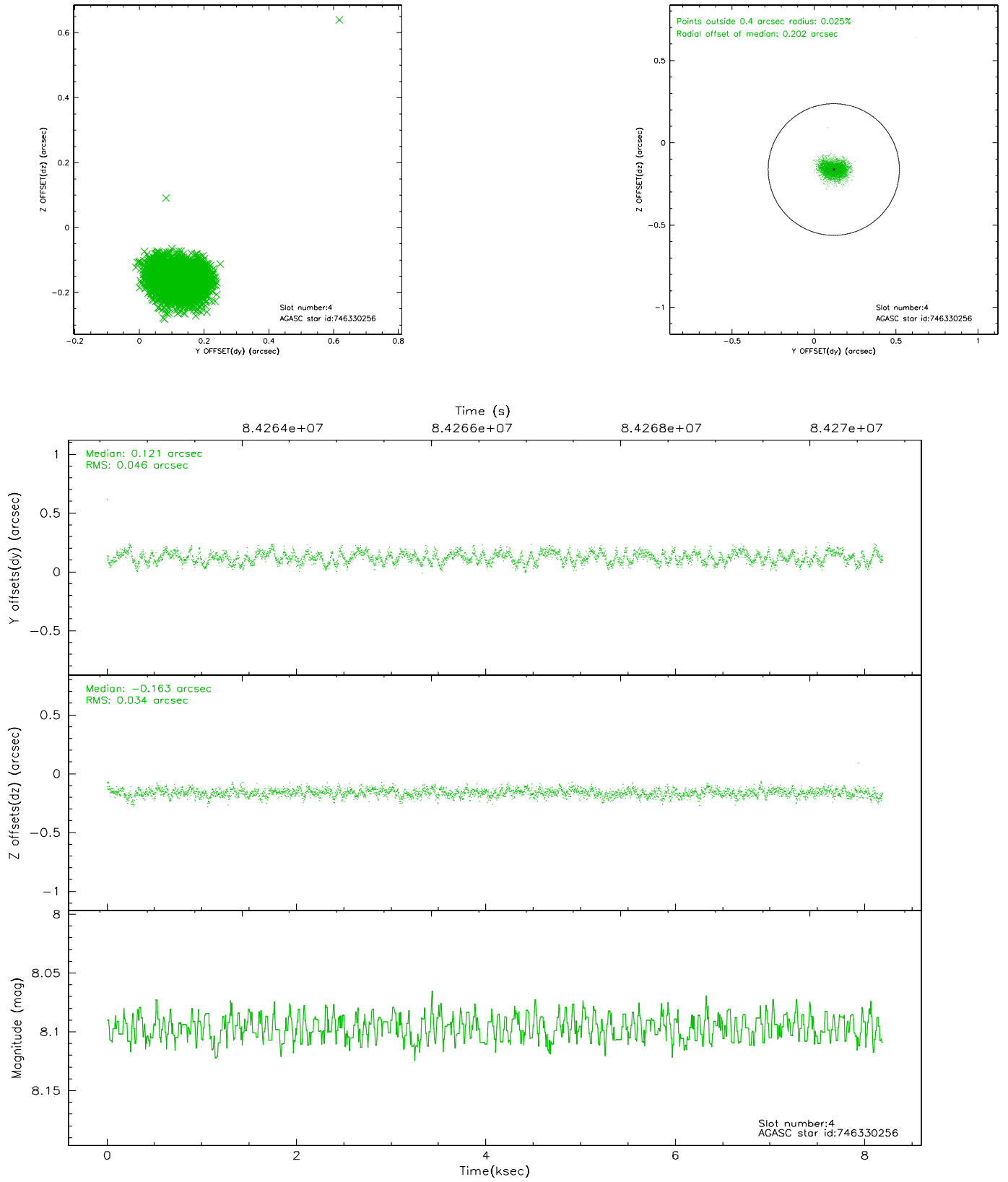
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.15	1998	0.166	0.196	0.006	0.010	0.000000	0.000000	-755.04	-1485.20
1	FID	ACIS-S-4	7.23	1998	-0.123	-0.132	0.005	0.008	0.000000	0.000000	2157.85	422.06
2	FID	ACIS-S-5	7.22	1998	-0.074	-0.054	0.006	0.010	0.000000	0.000000	-1807.03	417.04
3	GUIDE	746455152	7.79	3996	-0.134	-0.023	0.050	0.079	278.447893	-9.976732	-2128.41	440.51
4	GUIDE	746330256	8.10	3996	0.121	-0.163	0.061	0.094	277.634401	-10.863955	1229.19	-2247.04
5	GUIDE	746462456	8.39	3993	0.017	0.132	0.055	0.090	278.652171	-10.530173	-180.10	1276.51
6	GUIDE	746460272	8.94	3996	-0.020	0.082	0.080	0.128	278.847488	-10.152127	-1578.53	1891.01
7	GUIDE	746461728	9.80	3992	0.011	-0.031	0.123	0.194	278.986921	-10.530755	-245.52	2460.40

## 2.4 Star Slots

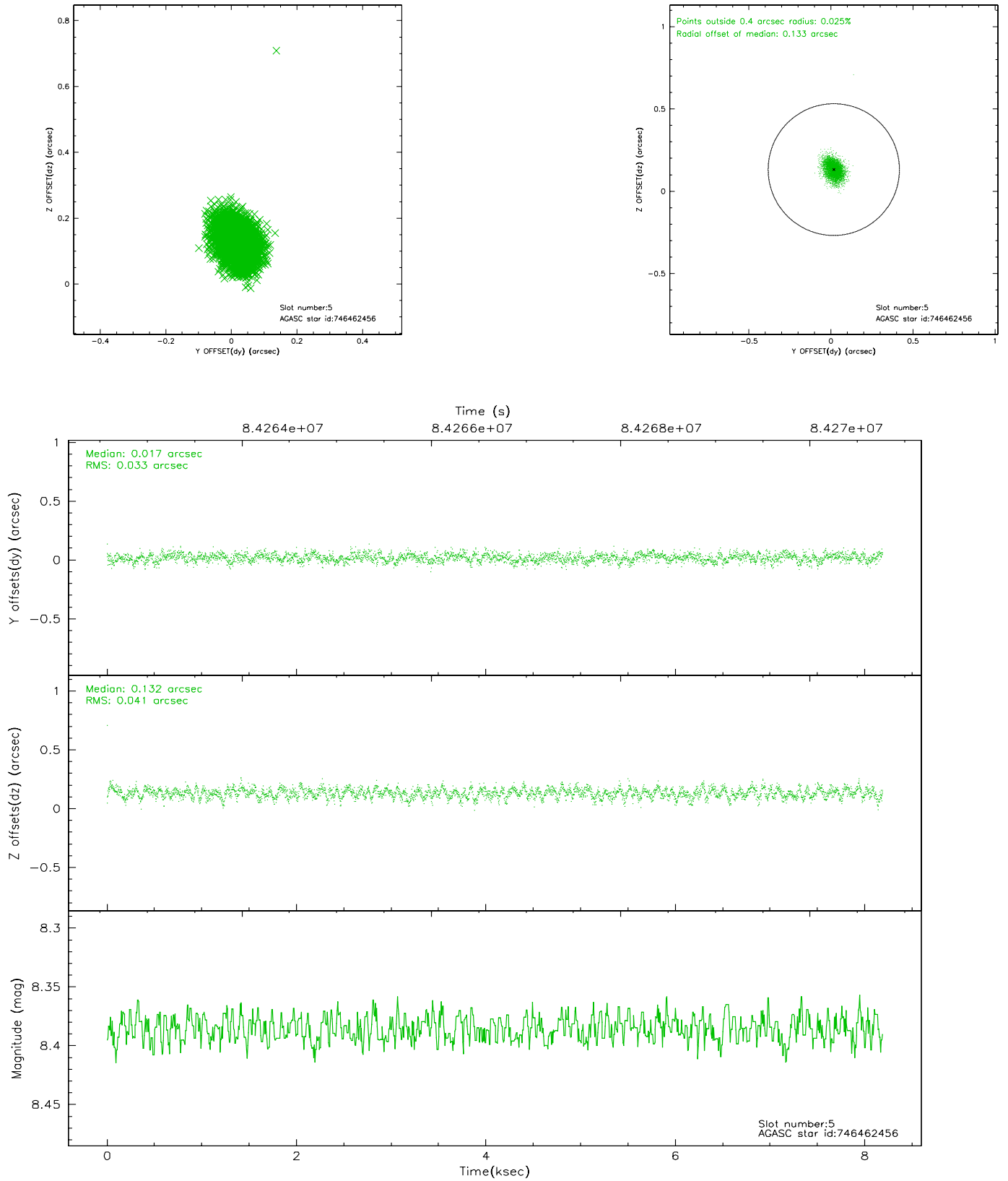
### 2.4.1 Slot 3



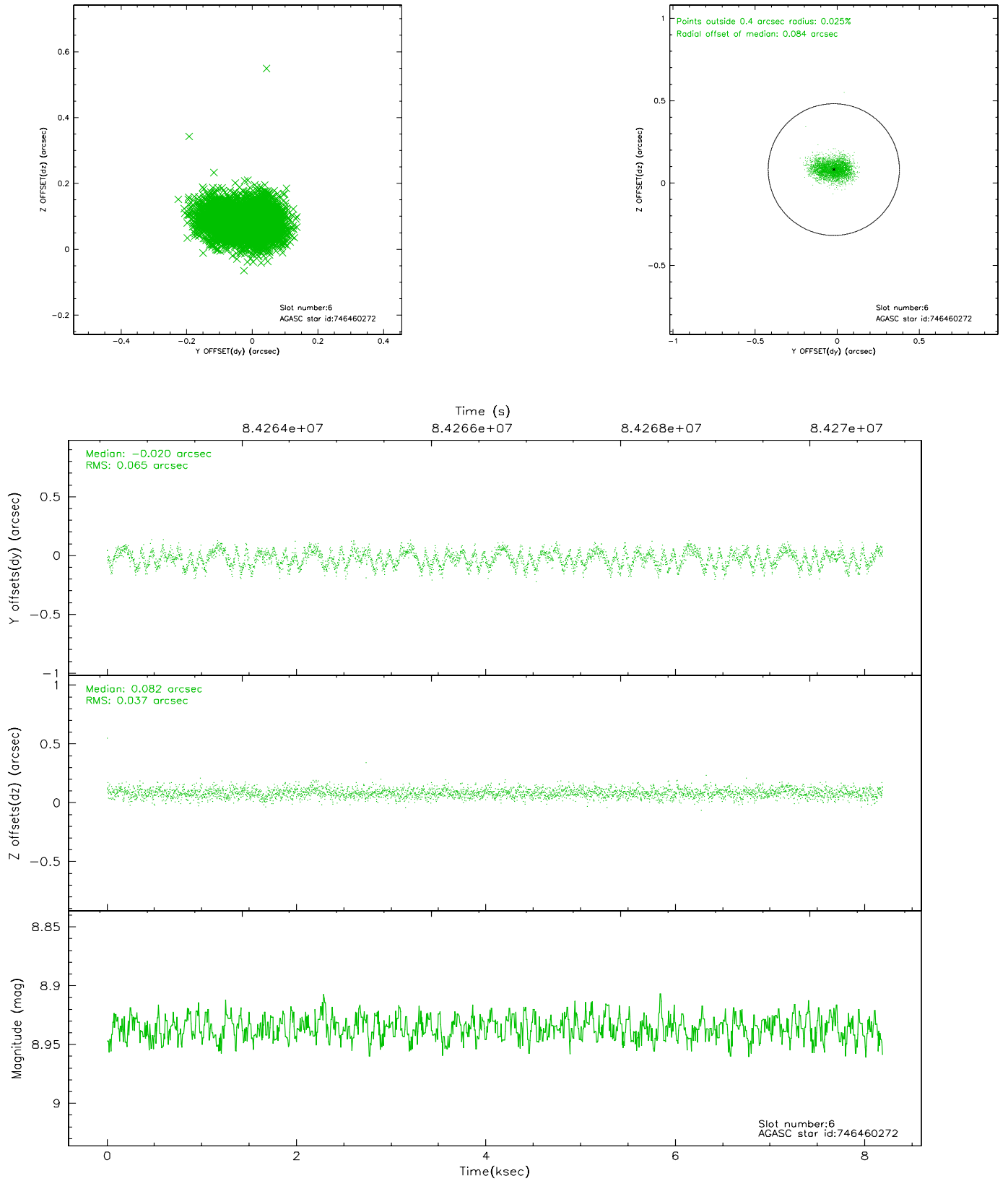
## 2.4.2 Slot 4



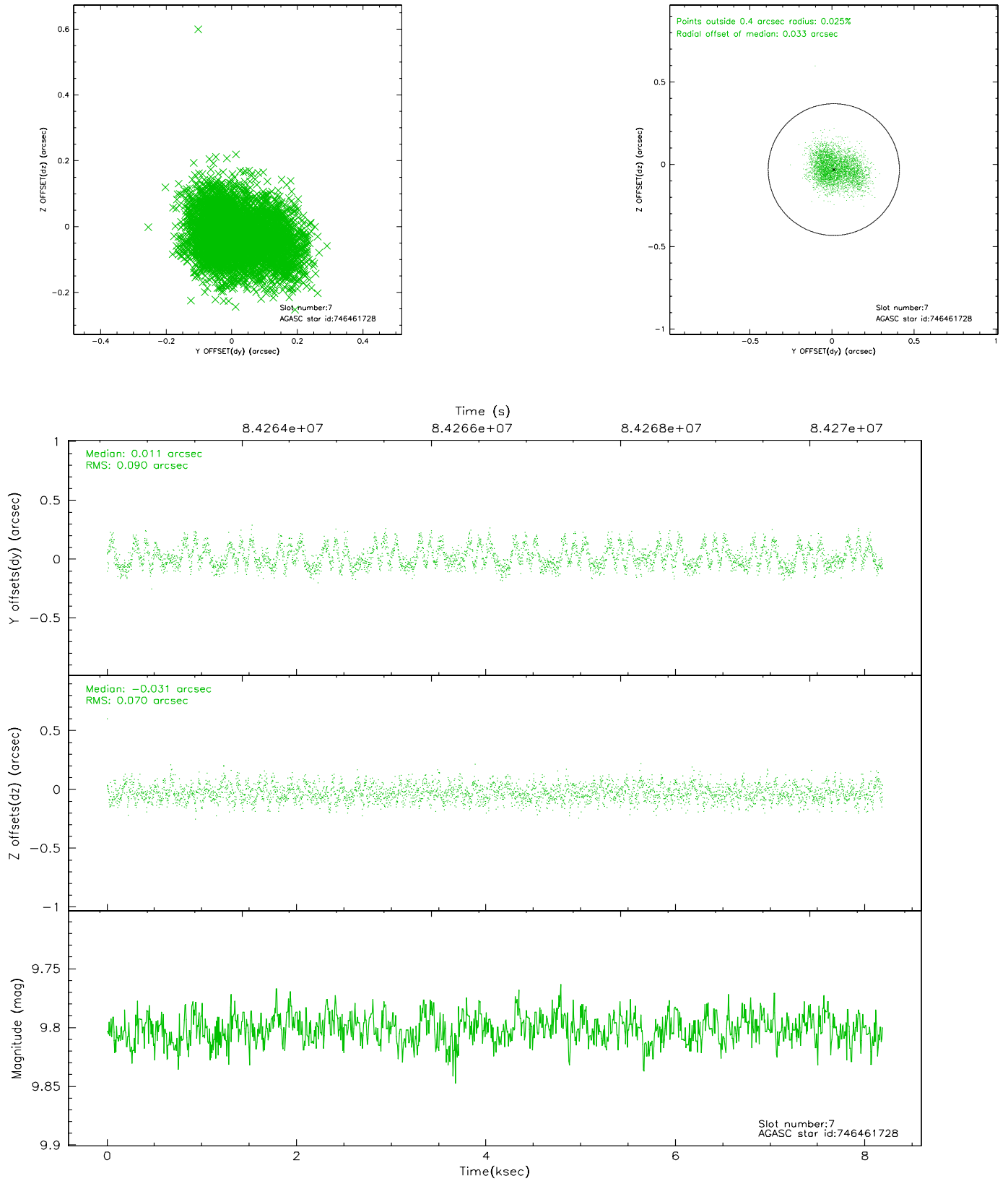
### 2.4.3 Slot 5



## 2.4.4 Slot 6

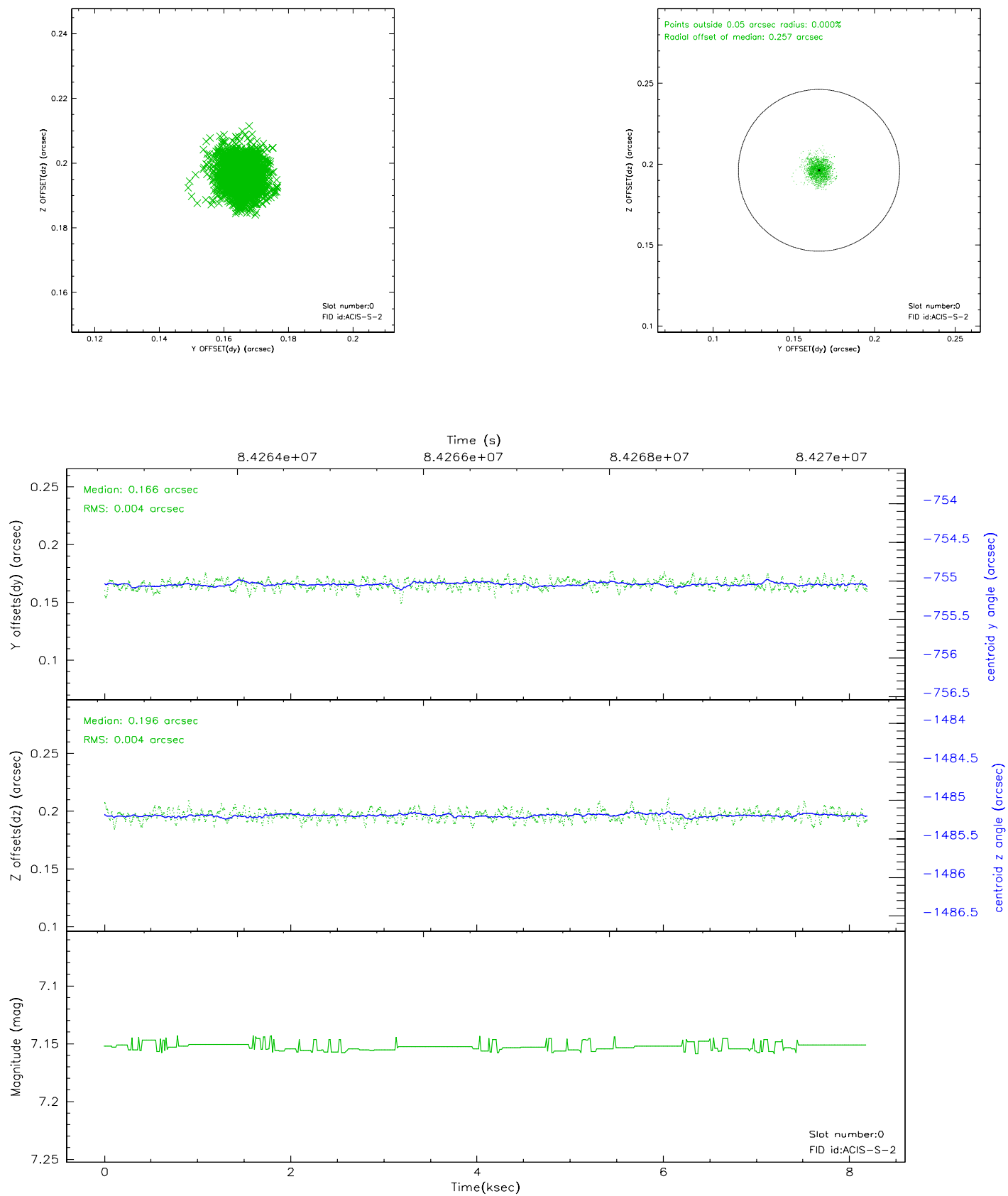


## 2.4.5 Slot 7

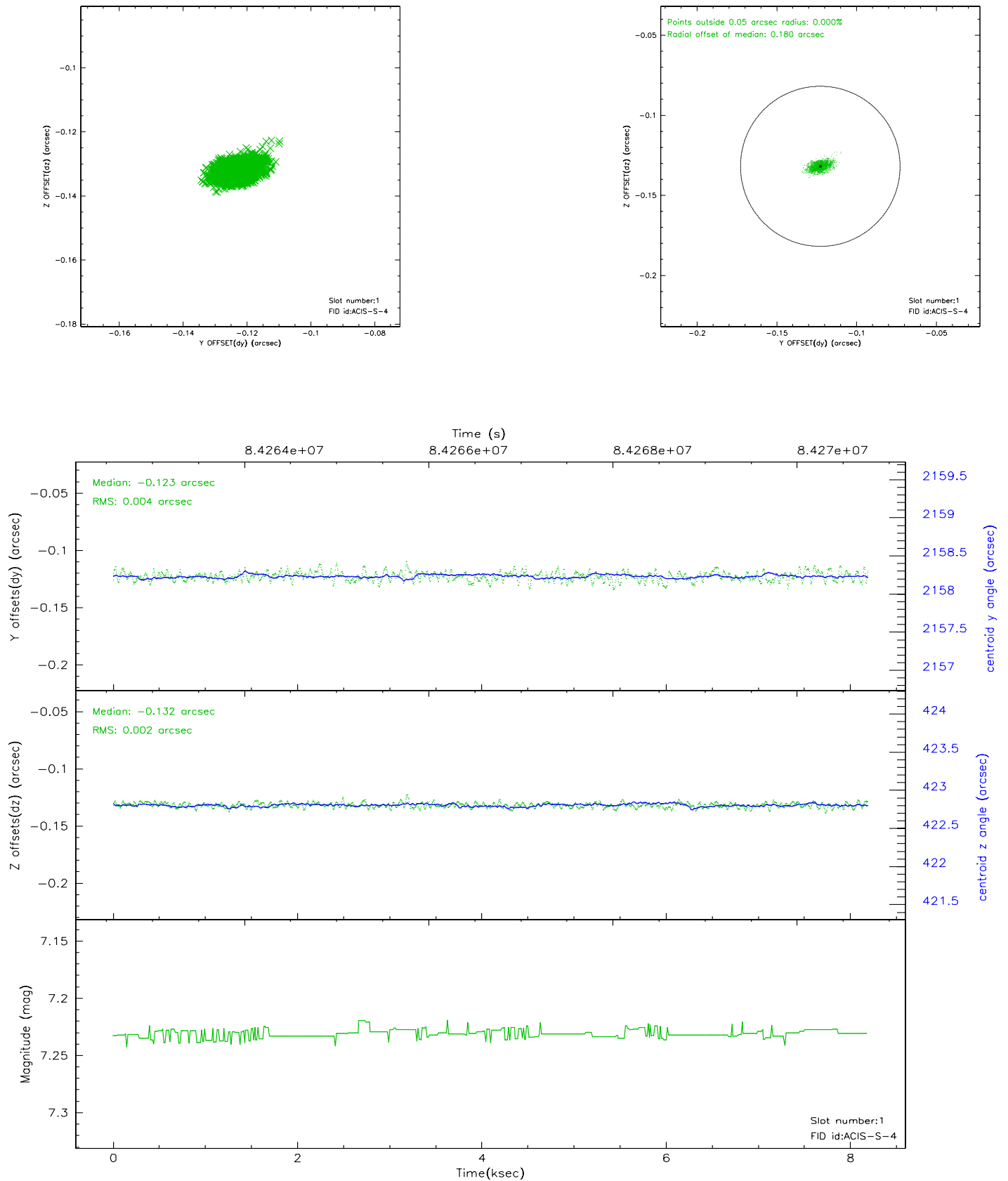


## 2.5 FID Slots

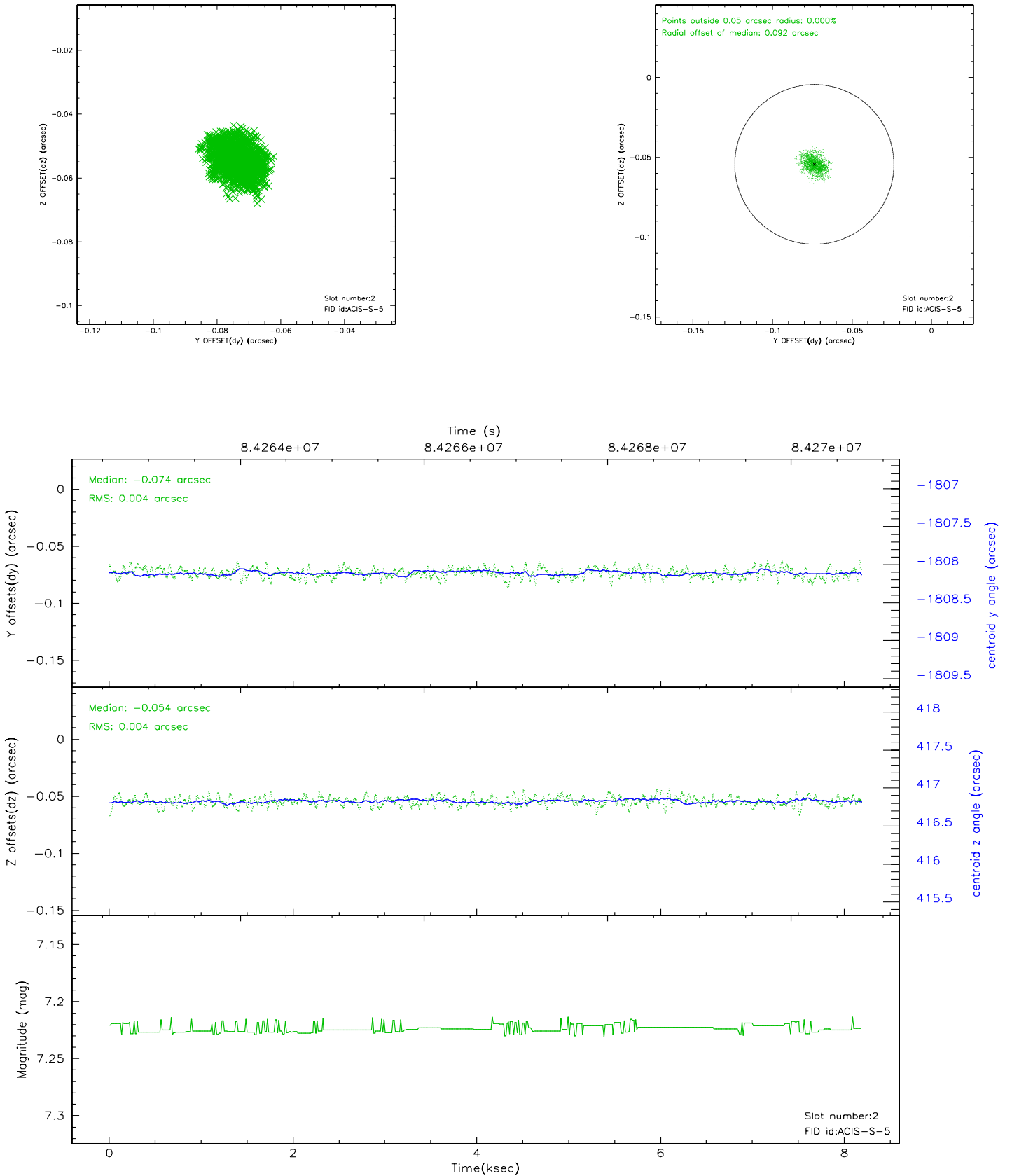
### 2.5.1 Slot 0



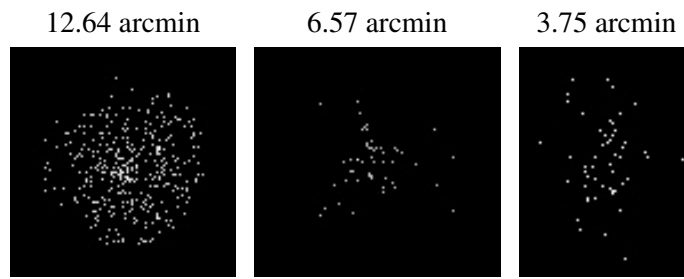
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.76

### A.2 Comments