

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13876 - L2 Version 1  
Chandra X-Ray Center

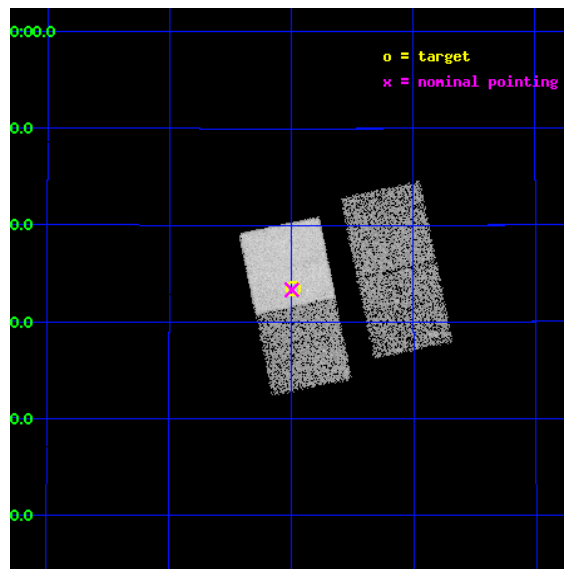
L2 Processing Date : Jul 8 2012

## 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

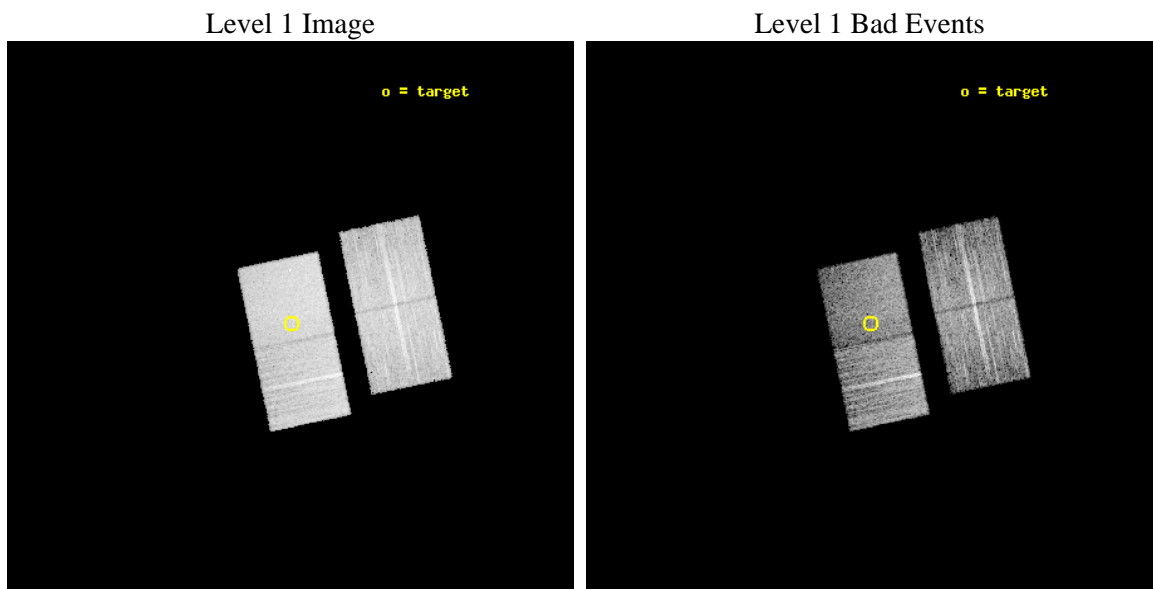
seq_num	702601	Sequence number
obs_id	13876	Observation id
title	Extending the Chandra 3C Snapshot Survey: Radio Galaxies with 0.3	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3c268.2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.24625	Observer's specified target RA [deg]
dec_targ	31.557778	Observer's specified target Dec [deg]
ra_nom	180.2487775689	Nominal RA [deg]
dec_nom	31.555625441376	Nominal Dec [deg]
roll_nom	258.32035567213	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11730.400090218	Sum of GTIs [s]
livetime	11577.133777244	Livetime [s]
ontime2	11724.118119478	Sum of GTIs [s]
ontime3	11730.400090218	Sum of GTIs [s]
ontime6	11730.400090218	Sum of GTIs [s]
ontime7	11730.400090218	Sum of GTIs [s]
l2events	58321	Number of level 2 events



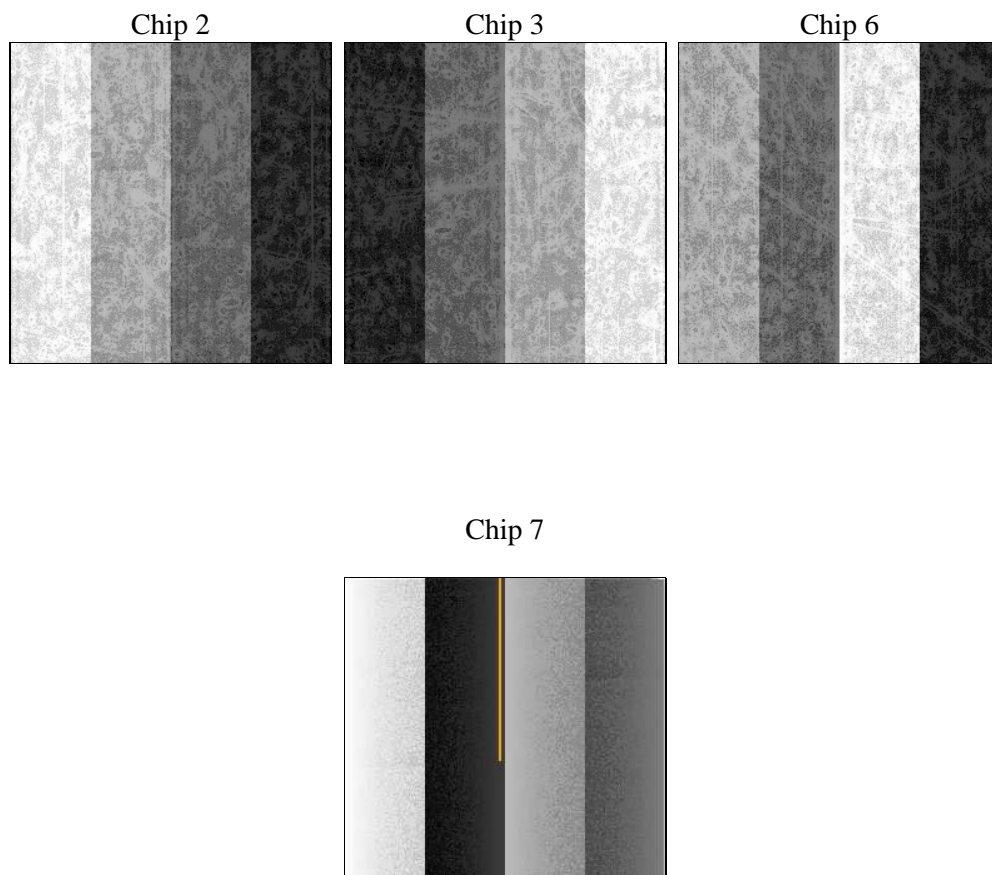
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11655.903000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	11730.400090218	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	11724.118119478	Sum of GTIs [s]
date	2012-07-08T14:09:03	Date and time of file creation	ontime3	11730.400090218	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	11730.400090218	Sum of GTIs [s]
			ontime7	11730.400090218	Sum of GTIs [s]
			l1events	296546	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	69016	66197	74159	87174
rejected events	60943	58779	65670	48138
rejected %	88%	88%	88%	55%

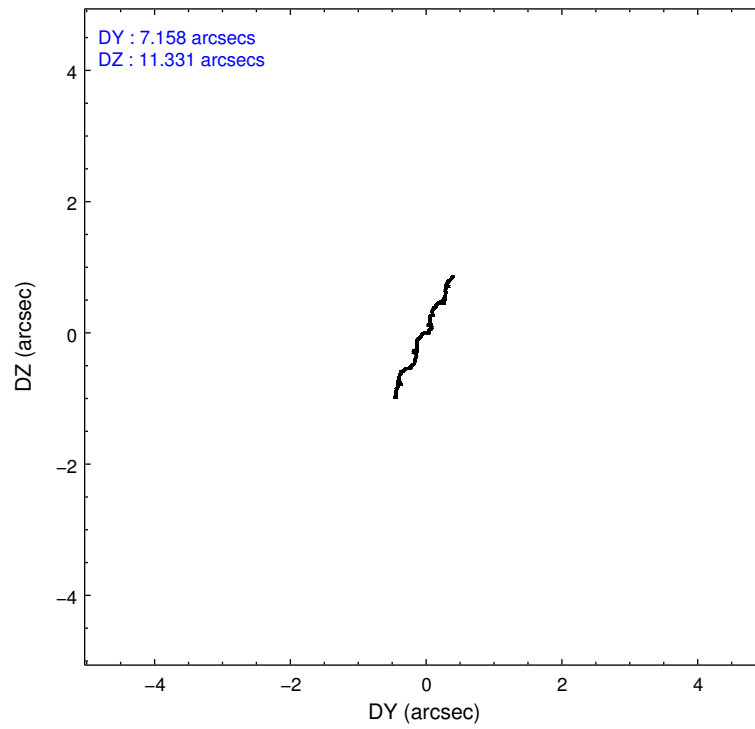
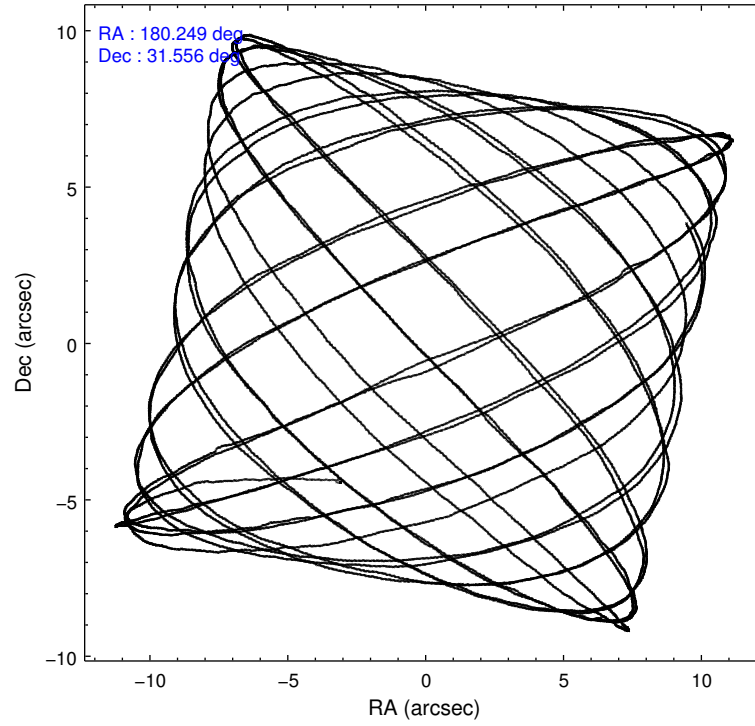
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3065	2629	2909	3686
	4%	3%	3%	4%
grade 1 events	44	38	41	105
	0%	0%	0%	0%
grade 2 events	1998	1692	2055	8088
	2%	2%	2%	9%
grade 3 events	720	783	835	3387
	1%	1%	1%	3%
grade 4 events	800	766	765	3182
	1%	1%	1%	3%
grade 5 events	2543	3112	3087	8798
	3%	4%	4%	10%
grade 6 events	1495	1550	1925	20702
	2%	2%	2%	23%
grade 7 events	58351	55627	62542	39226
	84%	84%	84%	44%

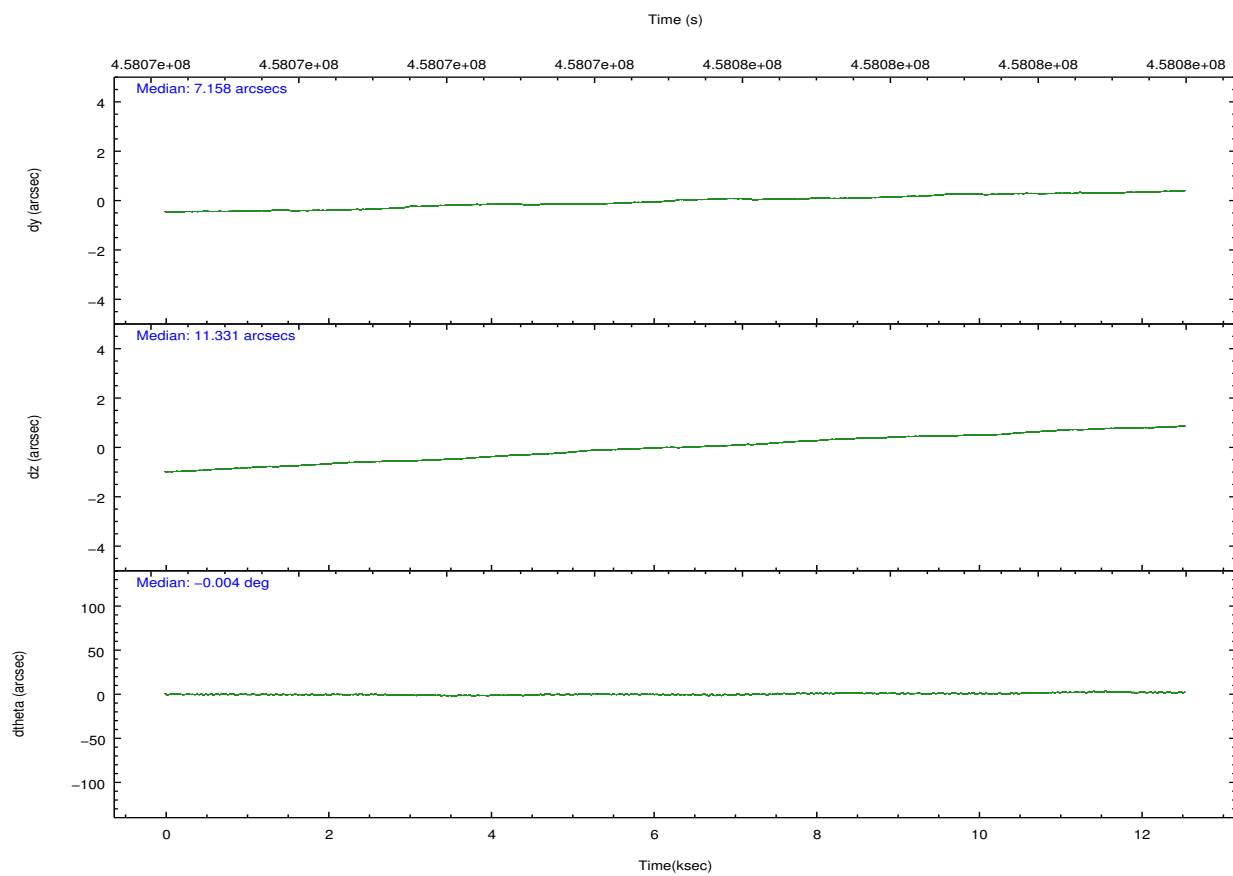
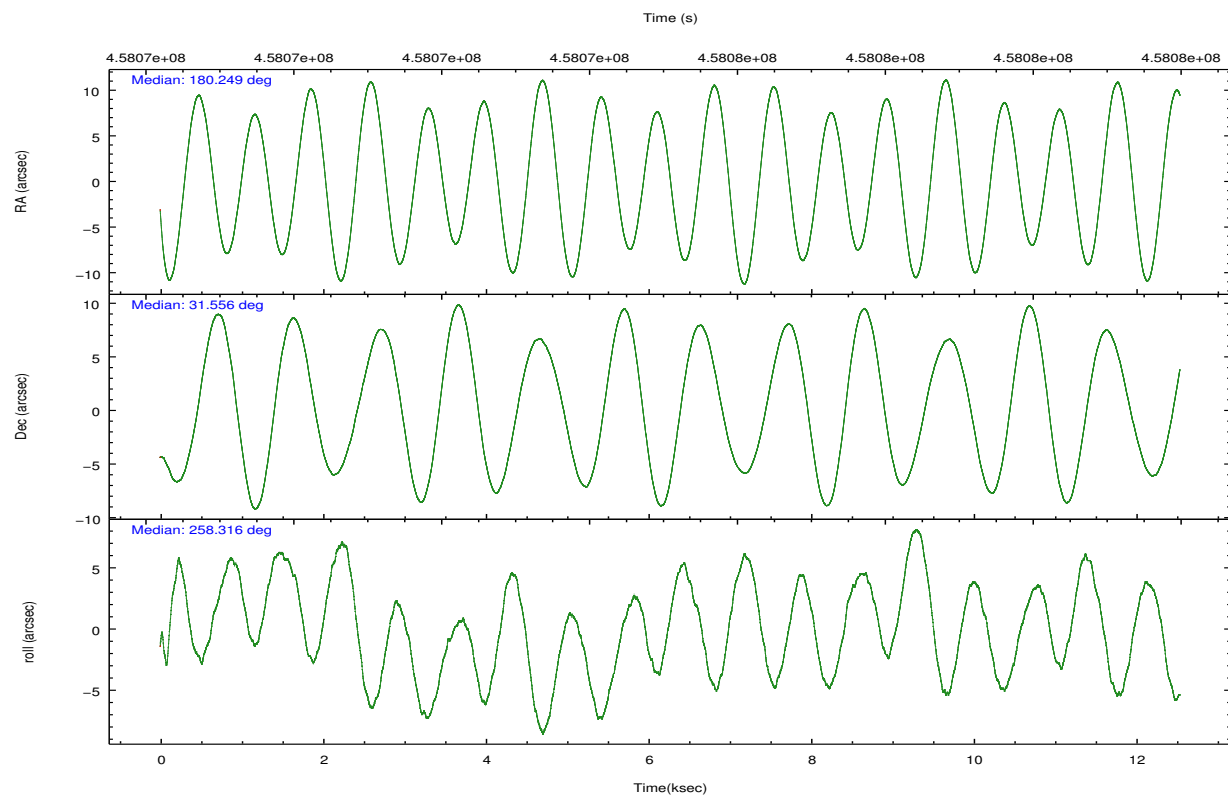


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	180.238293	180.2487775688972	CCD I2 on	O1	Y
[deg] Pointing Dec	31.581496	31.55562544137587	CCD I3 on	O2	Y
[deg] Pointing Roll	258.169216	258.3203556721285	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	458069705.184000	458068477.31982	CCD S5 on	N	N
Observation start date	2012-07-07T17:33:58	2012-07-07T17:14:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	458081361.184000	458081585.53302	On-chip summing requested	N	N
Observation end date	2012-07-07T20:48:14	2012-07-07T20:53:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



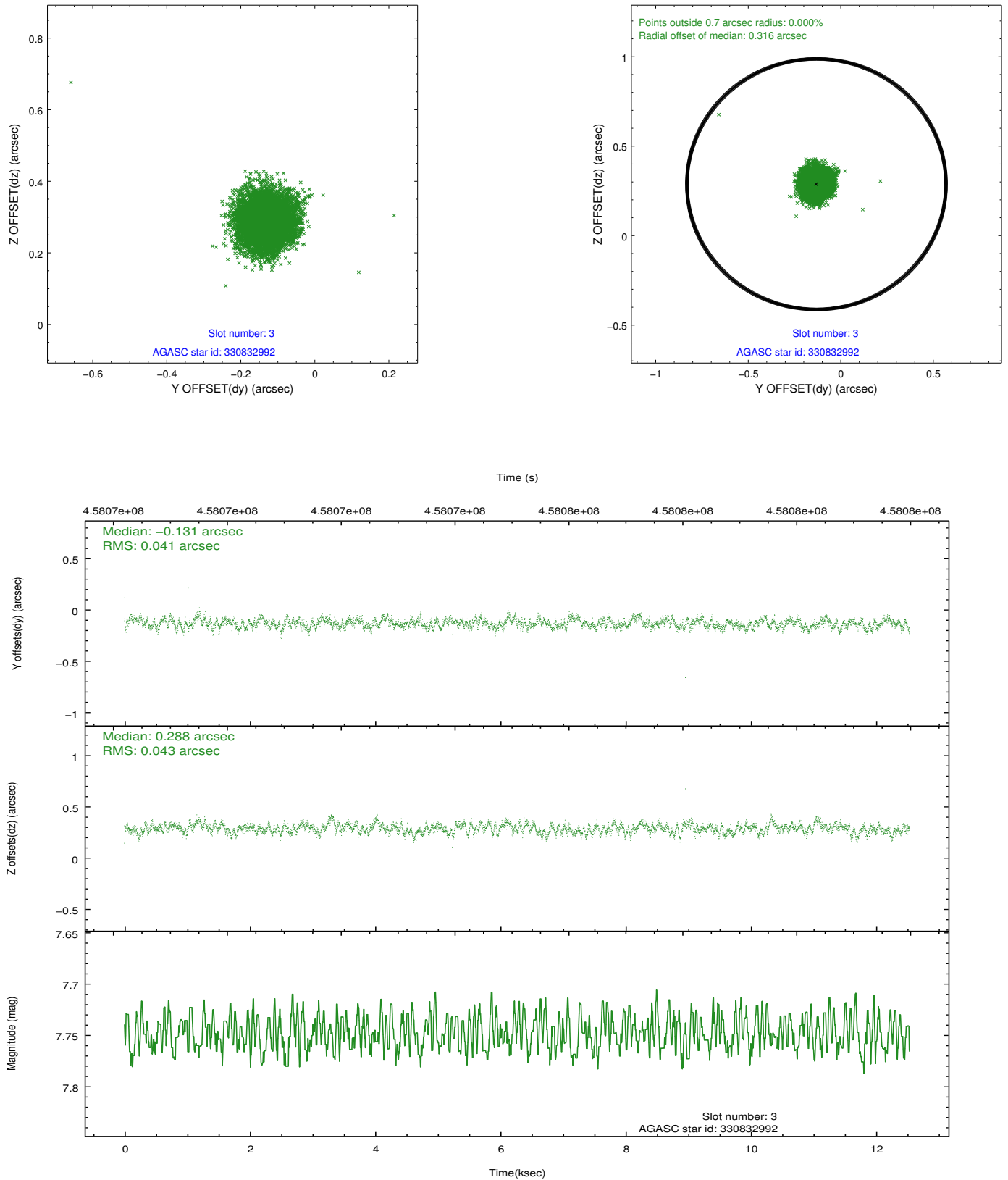


### Slot Statistics

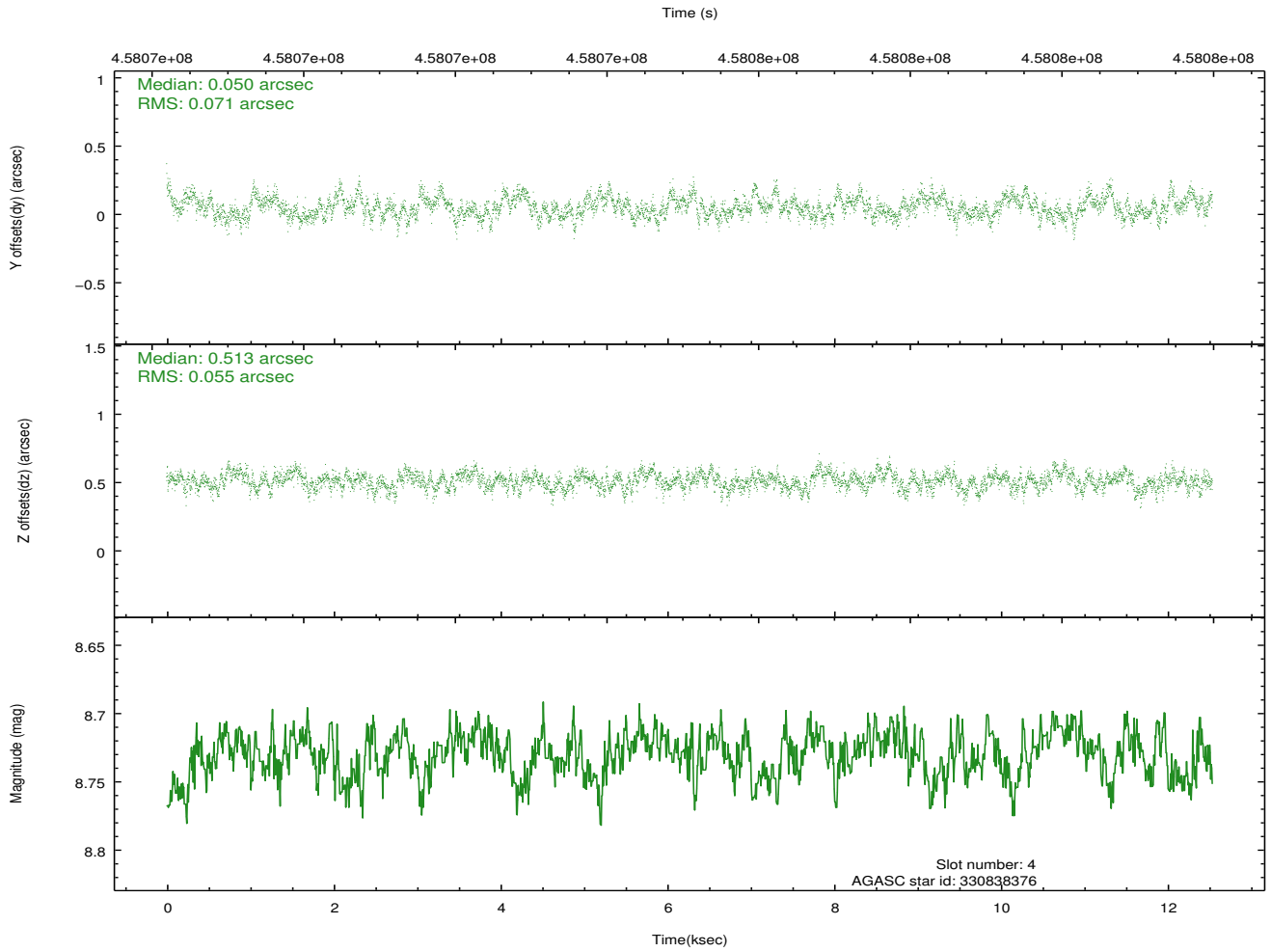
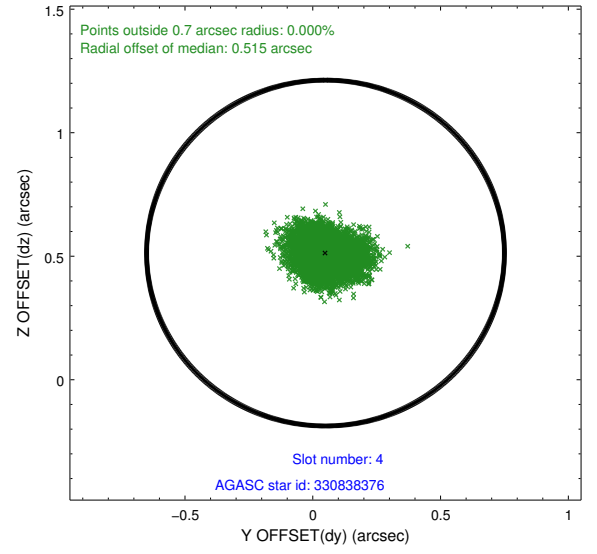
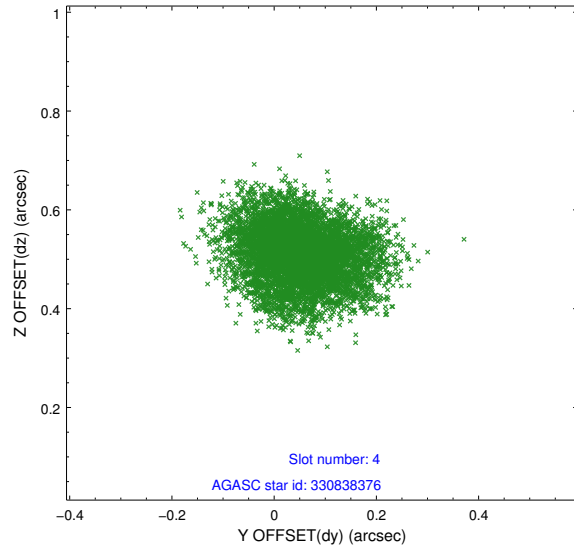
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.05	3058	-0.068	-0.035	0.018	0.030	0.000000	0.000000	-759.93	-1732.58
1	FID	ACIS-S-4	7.14	3059	0.176	0.042	0.010	0.018	0.000000	0.000000	2153.40	175.60
2	FID	ACIS-S-5	7.17	3059	-0.140	0.001	0.016	0.030	0.000000	0.000000	-1812.36	169.65
3	GUIDE	330832992	7.75	6116	-0.131	0.288	0.063	0.098	179.618441	31.920500	-810.73	-2104.56
4	GUIDE	330838376	8.73	6114	0.050	0.513	0.096	0.156	179.706493	31.132157	1916.36	-1273.22
5	GUIDE	330841752	8.87	6115	0.355	-1.053	0.081	0.131	179.629290	31.337380	1240.22	-1655.13
6	GUIDE	331219752	8.72	6114	-0.193	0.417	0.069	0.111	180.687775	31.510253	-33.44	1402.38
7	GUIDE	331220264	8.83	6114	-0.083	-0.164	0.097	0.154	180.532977	31.249542	982.78	1132.34

## 2.4 Star Slots

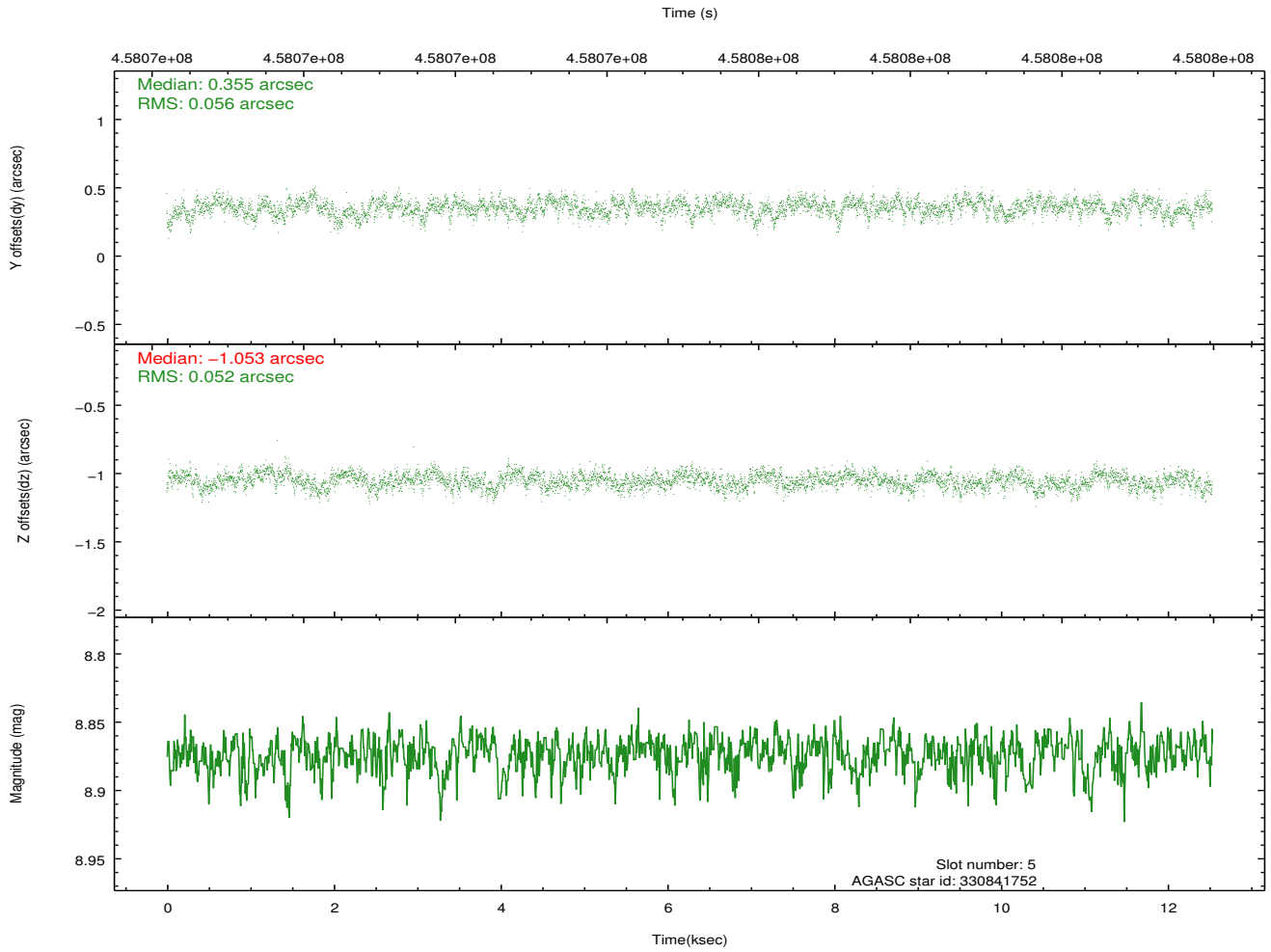
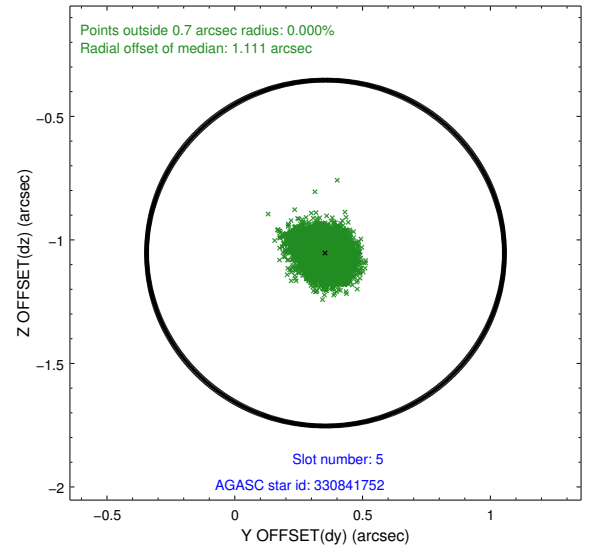
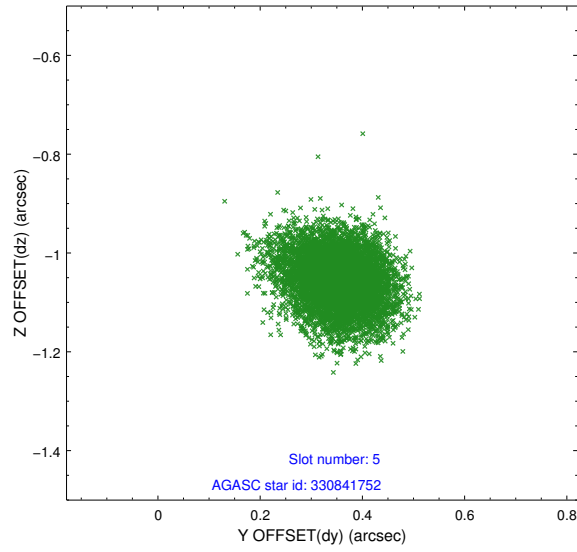
### 2.4.1 Slot 3



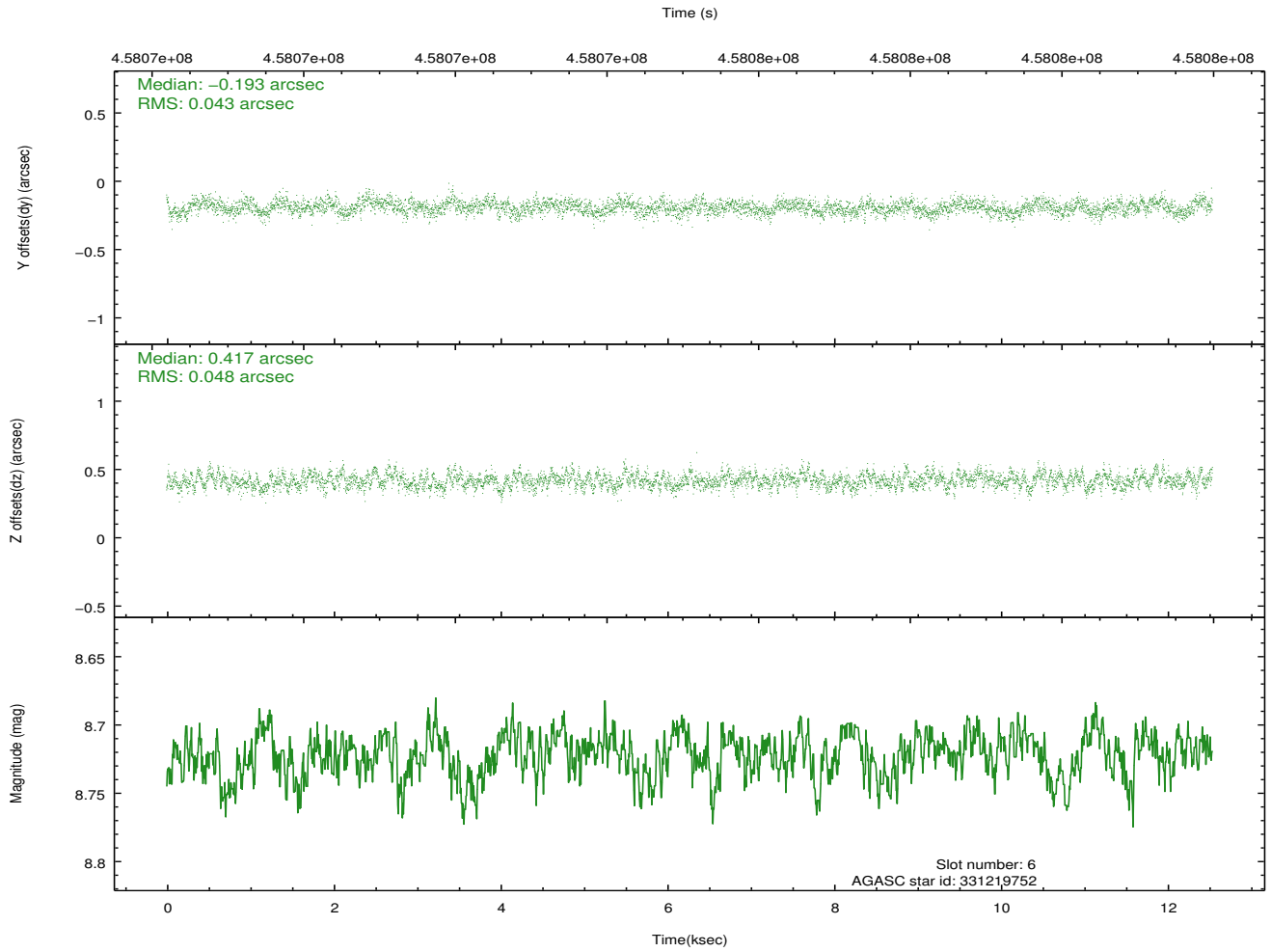
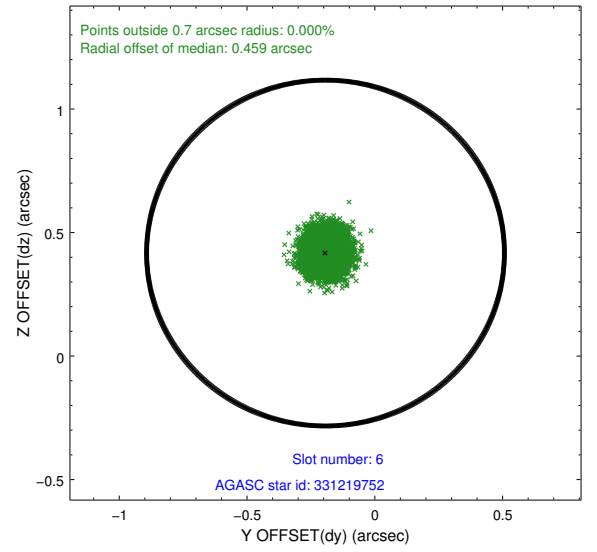
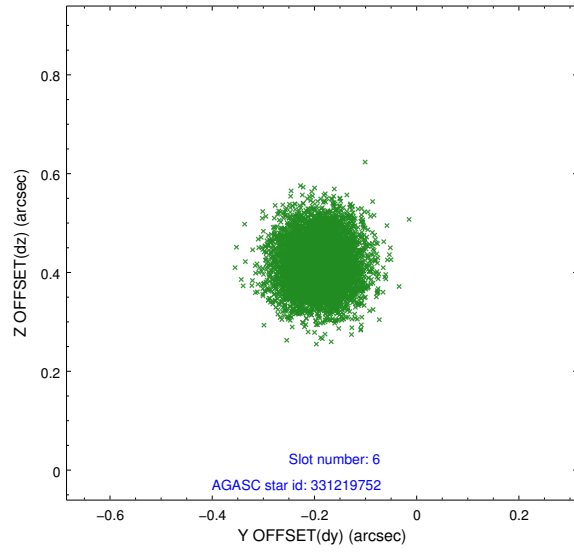
## 2.4.2 Slot 4



### 2.4.3 Slot 5

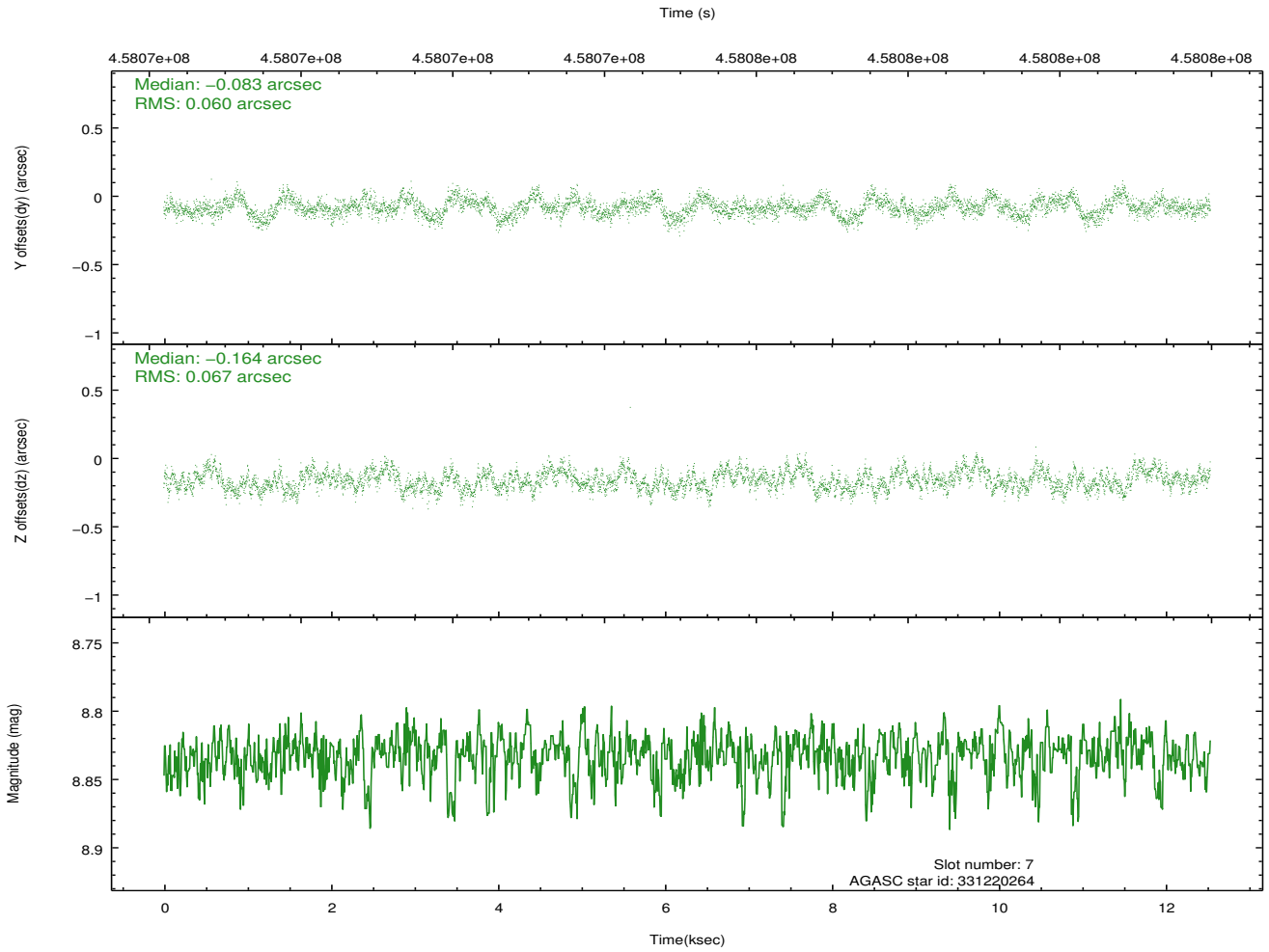
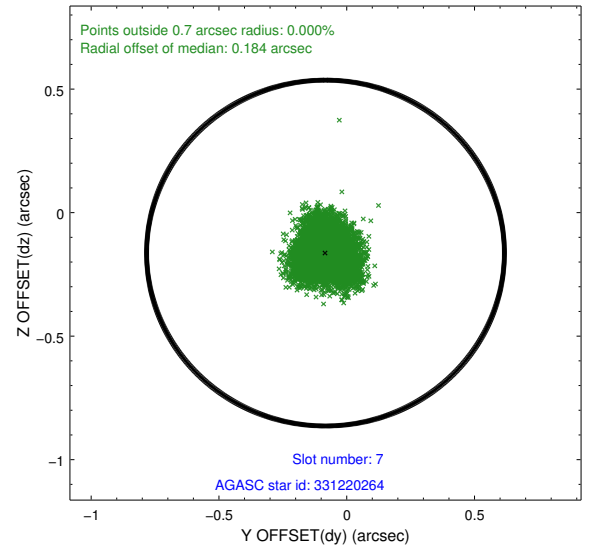
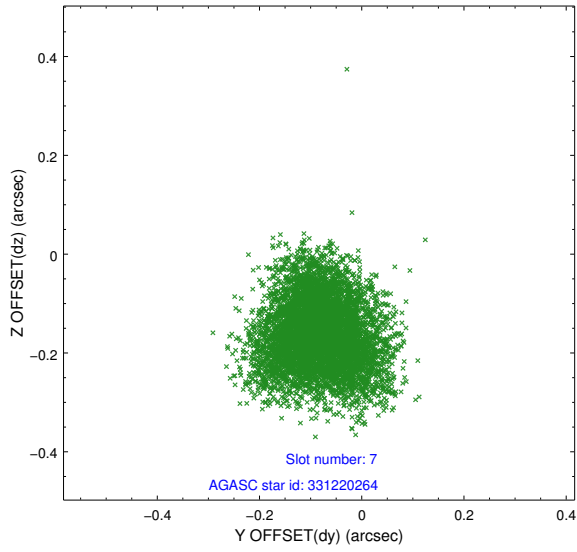


## 2.4.4 Slot 6



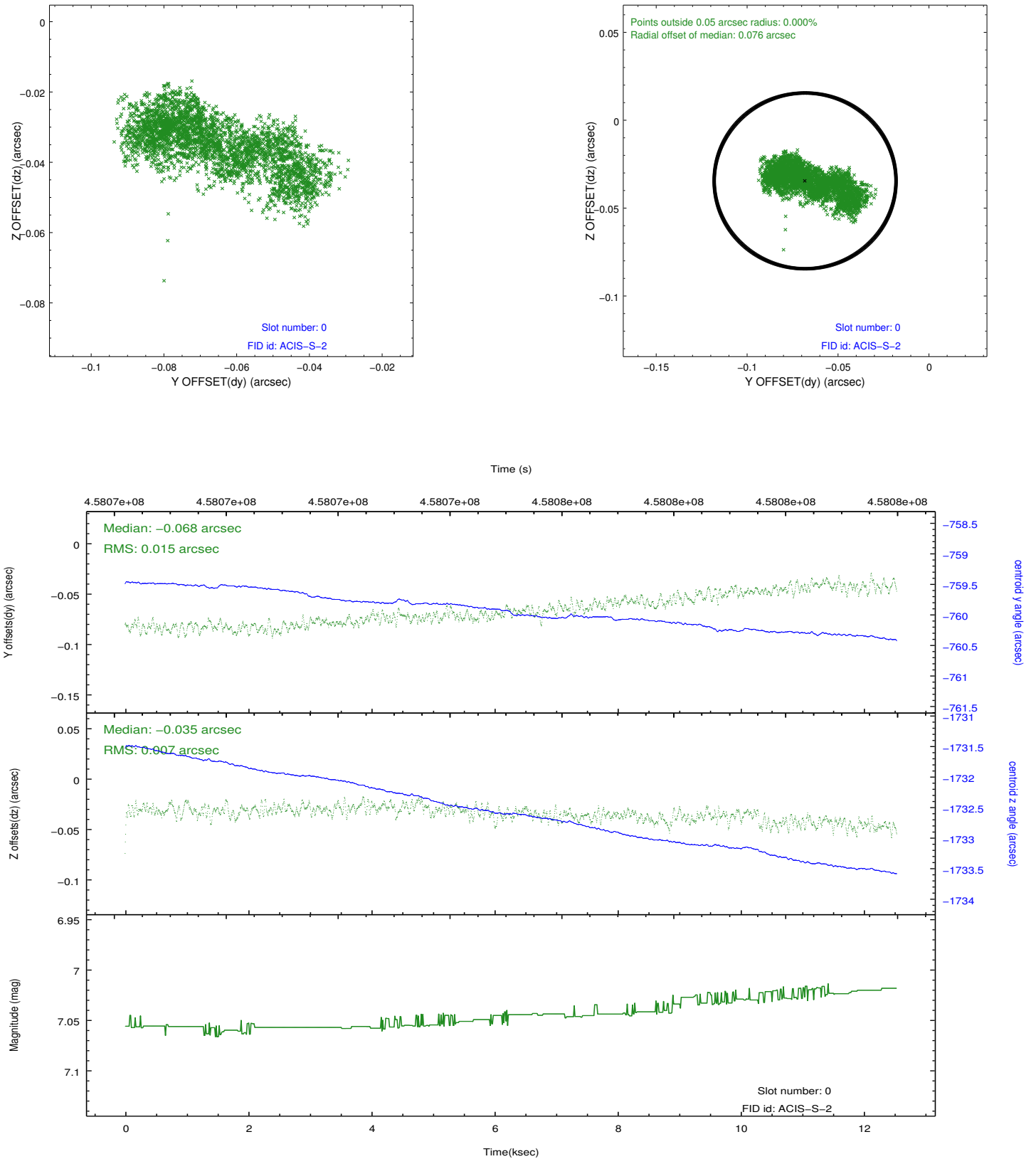


### 2.4.5 Slot 7

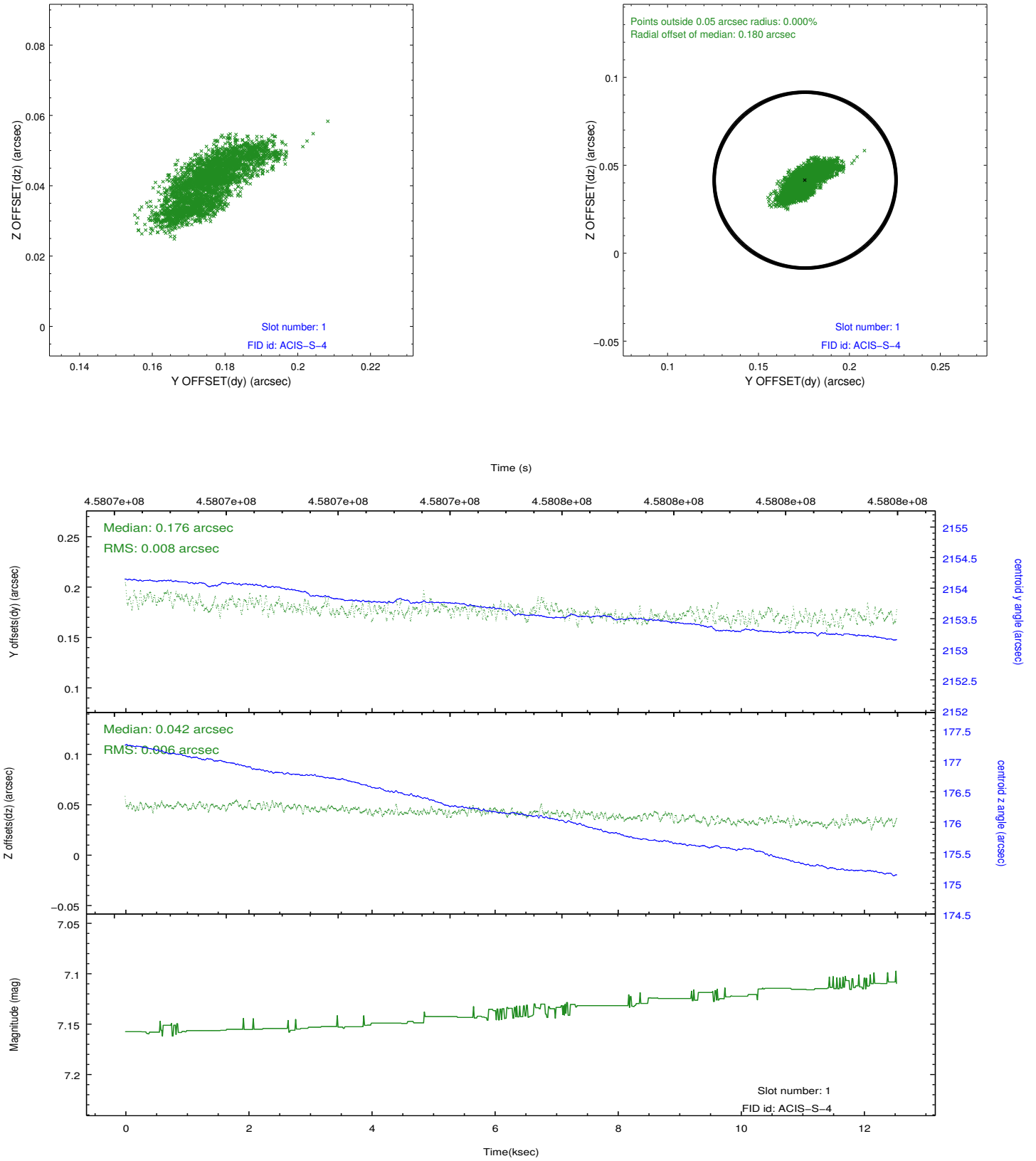


## 2.5 FID Slots

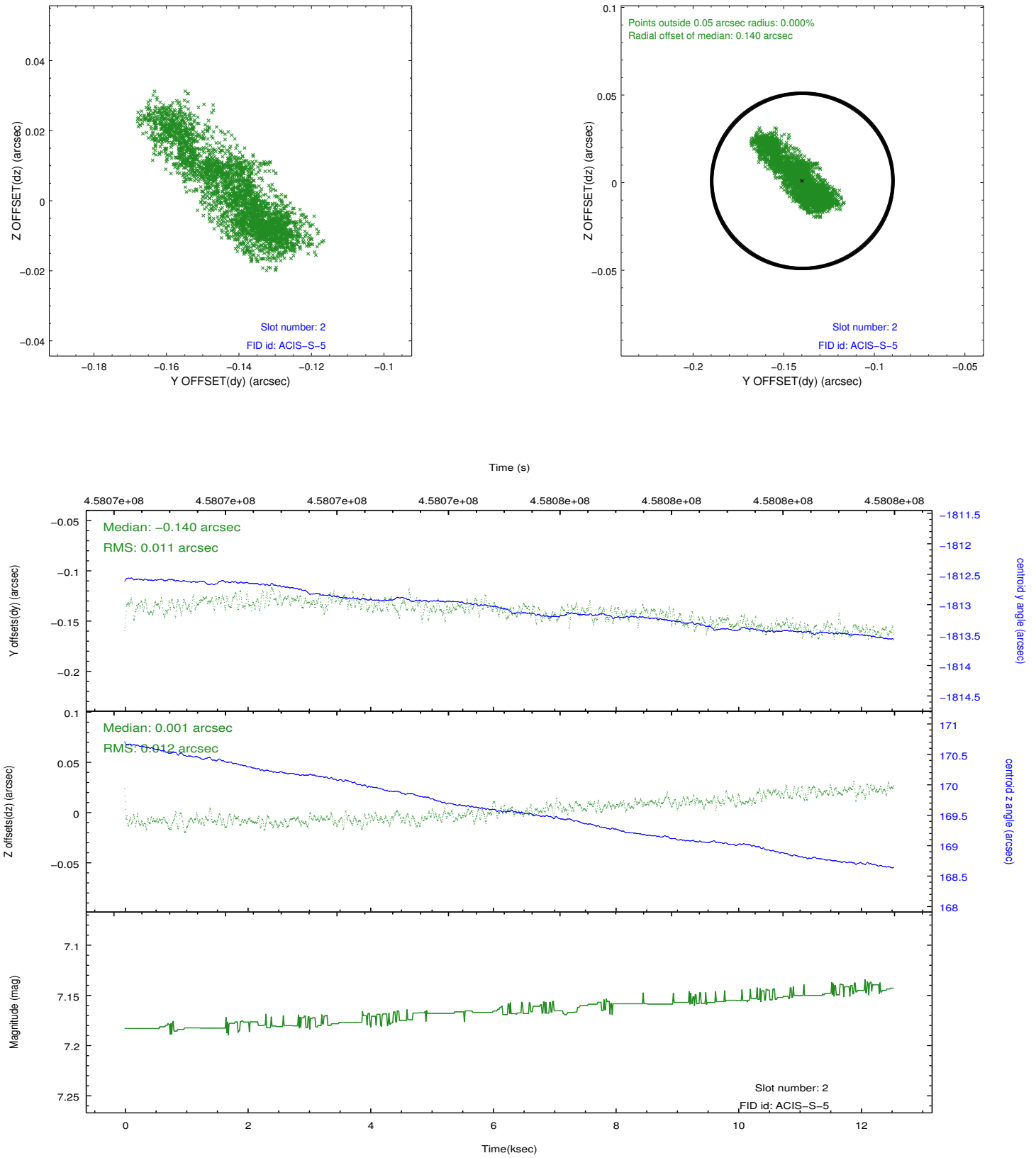
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.730400090218

### **A.2 Comments**