

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3246 - L2 Version 3  
Chandra X-Ray Center

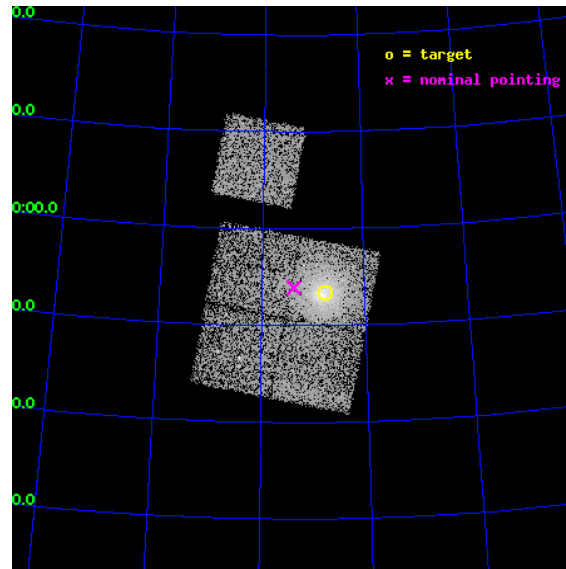
L2 Processing Date : Sep 29 2012

## 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

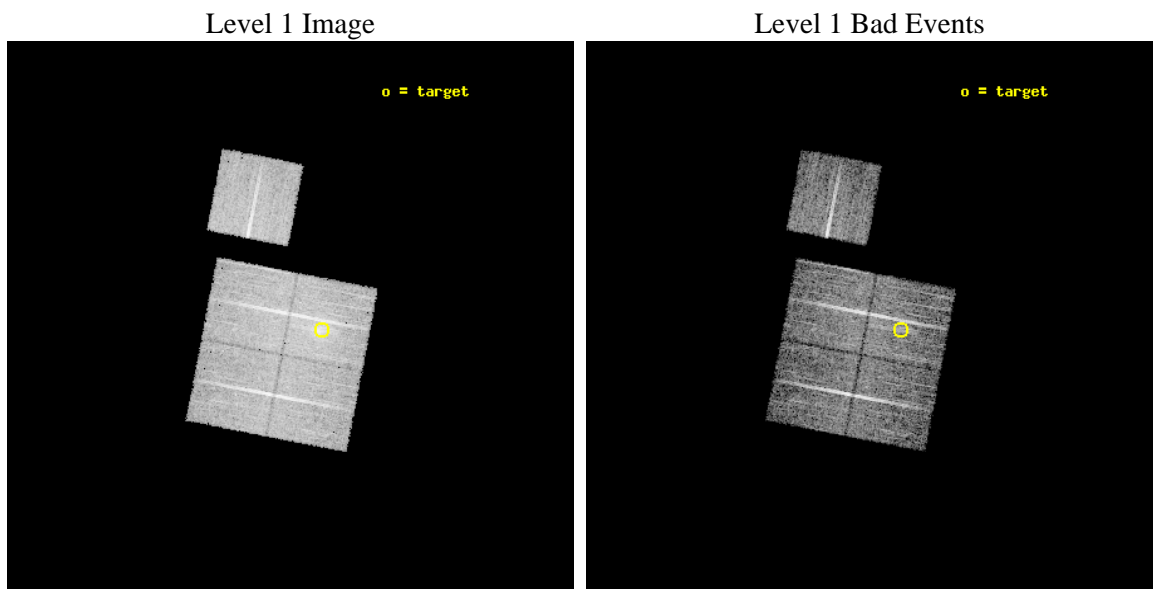
seq_num	800246	Sequence number
obs_id	3246	Observation id
title	OBSERVATION OF BCS CLUSTERS, SECOND SET	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	A2294	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.98	Observer's specified target RA [deg]
dec_targ	85.89	Observer's specified target Dec [deg]
ra_nom	261.72968251954	Nominal RA [deg]
dec_nom	85.898733775764	Nominal Dec [deg]
roll_nom	11.028376881733	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10118.399980545	Sum of GTIs [s]
livetime	9986.1956357415	Livetime [s]
ontime0	10115.259020299	Sum of GTIs [s]
ontime1	10118.399980545	Sum of GTIs [s]
ontime2	10112.118000224	Sum of GTIs [s]
ontime3	10118.399980545	Sum of GTIs [s]
ontime6	10118.399980545	Sum of GTIs [s]
l2events	34623	Number of level 2 events



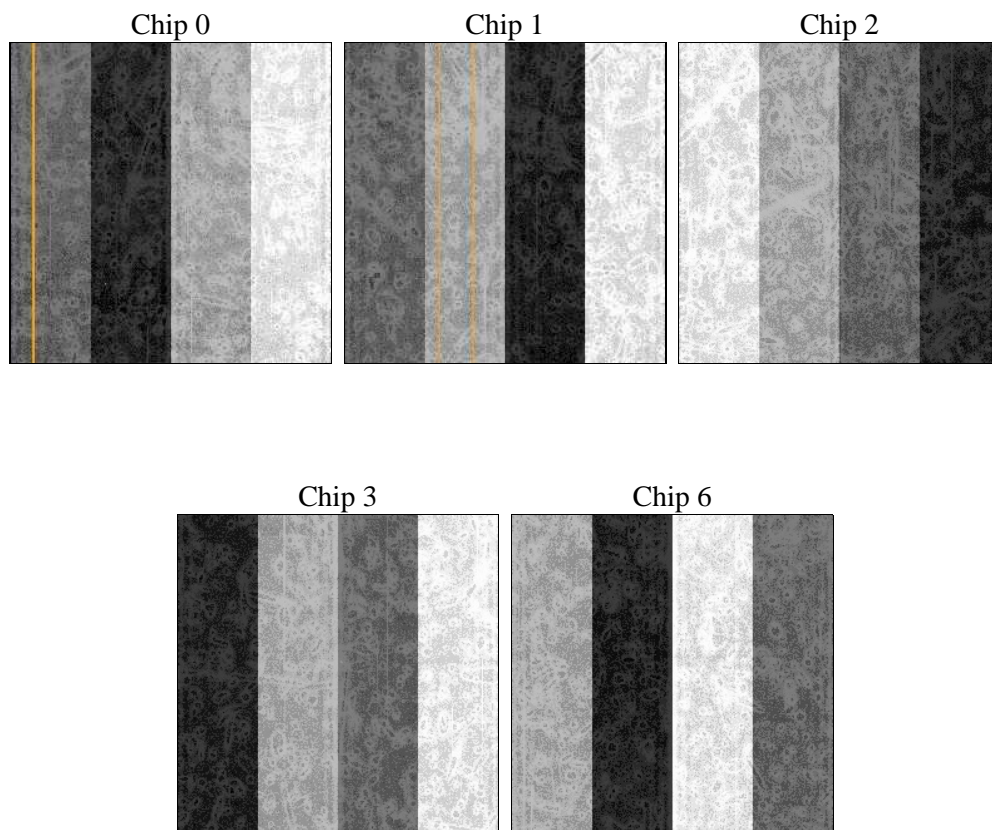
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10118.399980545	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	10115.259020299	Sum of GTIs [s]
date	2012-09-29T14:25:43	Date and time of file creation	ontime1	10118.399980545	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10112.118000224	Sum of GTIs [s]
			ontime3	10118.399980545	Sum of GTIs [s]
			ontime6	10118.399980545	Sum of GTIs [s]
			l1events	288958	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	50669	52361	60024	68514	57390
rejected events	44729	45690	53856	53833	50898
rejected %	88%	87%	89%	78%	88%

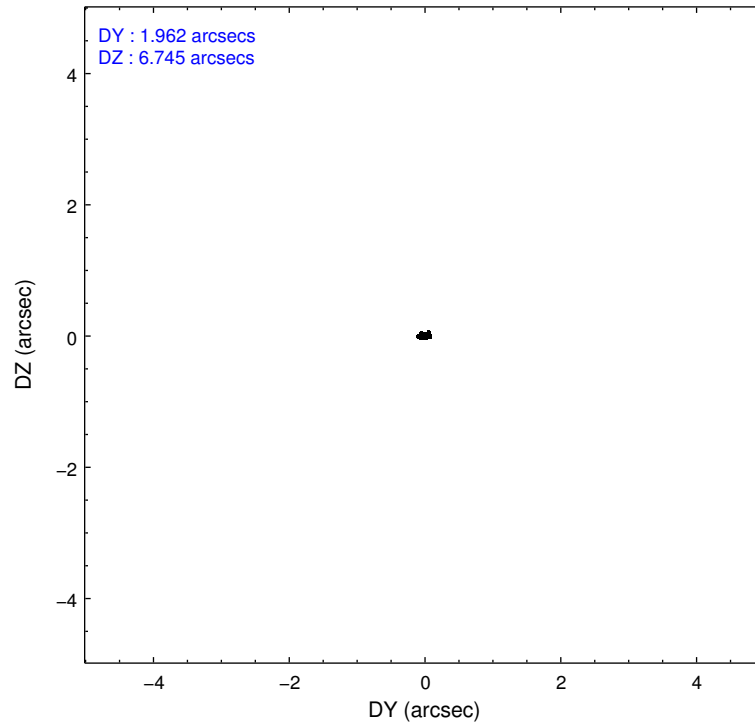
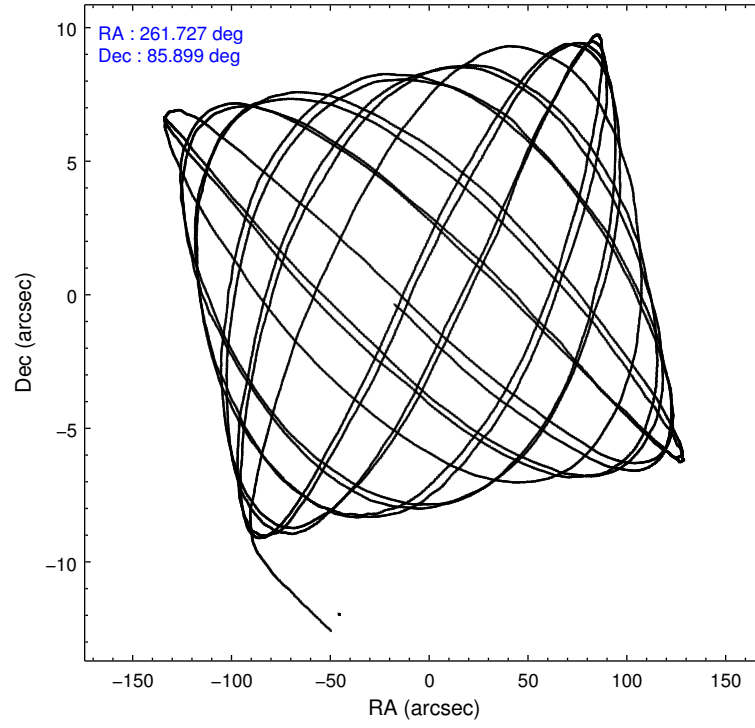
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2330	2843	2569	9640	2779
	4%	5%	4%	14%	4%
grade 1 events	24	34	28	69	28
	0%	0%	0%	0%	0%
grade 2 events	1243	1225	1275	2021	1251
	2%	2%	2%	2%	2%
grade 3 events	681	738	657	862	642
	1%	1%	1%	1%	1%
grade 4 events	624	636	648	866	670
	1%	1%	1%	1%	1%
grade 5 events	1827	1930	1658	2079	2024
	3%	3%	2%	3%	3%
grade 6 events	1062	1231	1026	1305	1151
	2%	2%	1%	1%	2%
grade 7 events	42878	43724	52163	51672	48845
	84%	83%	86%	75%	85%

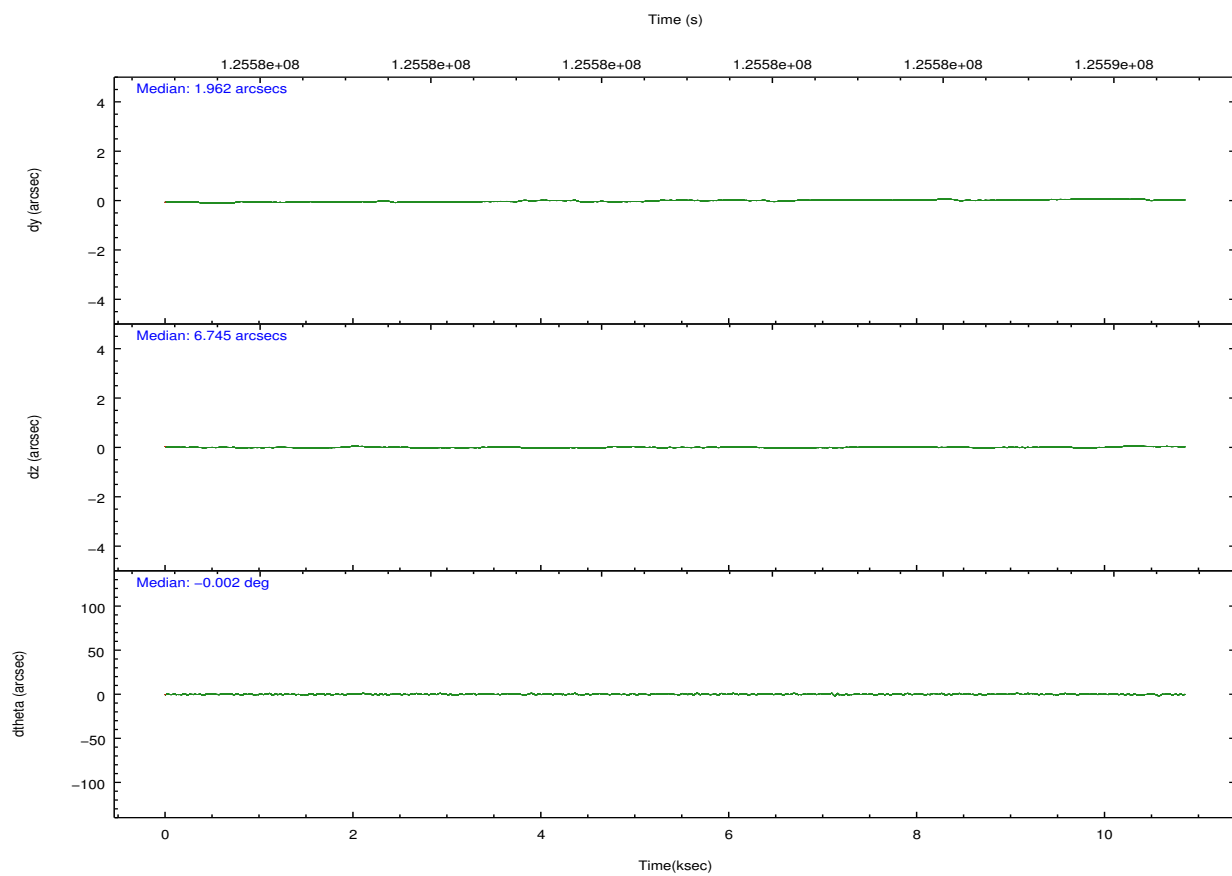
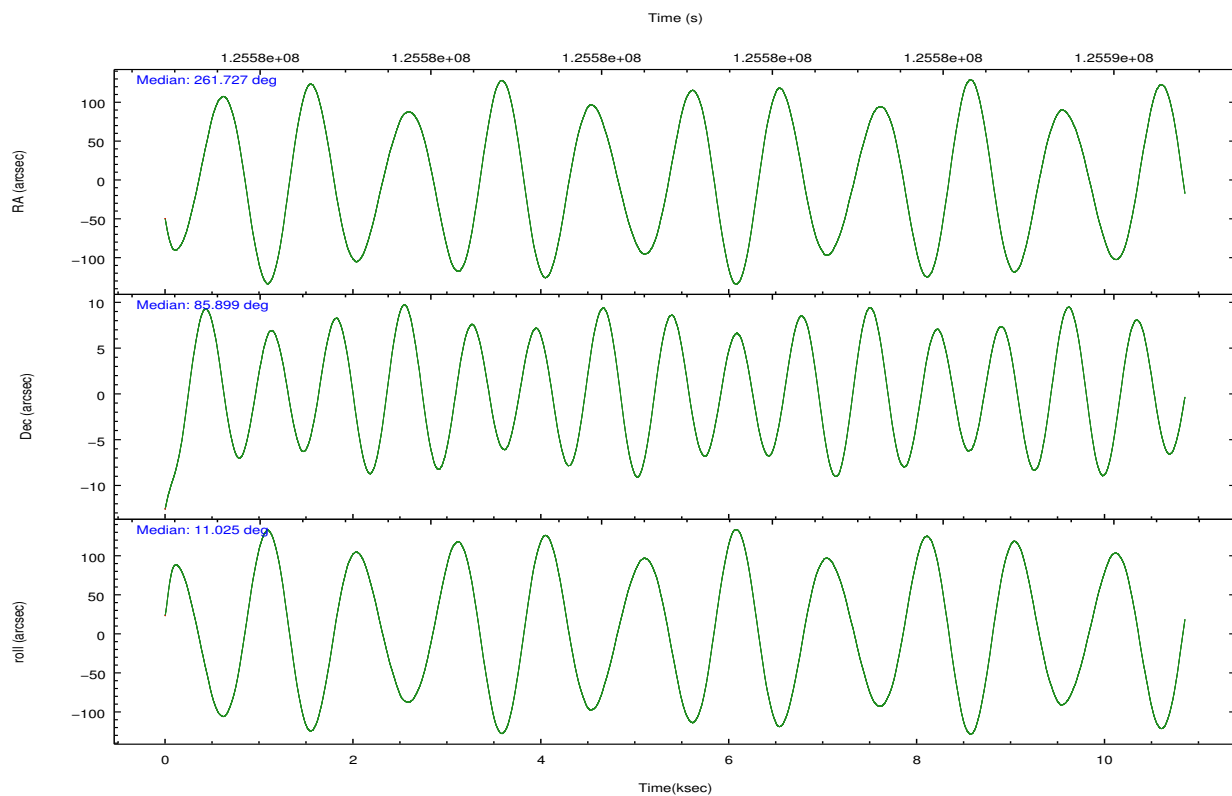


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	261.442008	261.7296825195386	Subarray requested	NONE	NONE
[deg] Pointing Dec	85.880626	85.89873377576447	Alternating exposures requested	N	N
[deg] Pointing Roll	11.106652	11.02837688173304	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	125576288.184000	125575000.77303			
Observation start date	2001-12-24T10:17:04	2001-12-24T09:56:40			
[s] Observation end time (MET)	125586288.184000	125587000.44851			
Observation end date	2001-12-24T13:03:44	2001-12-24T13:16:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



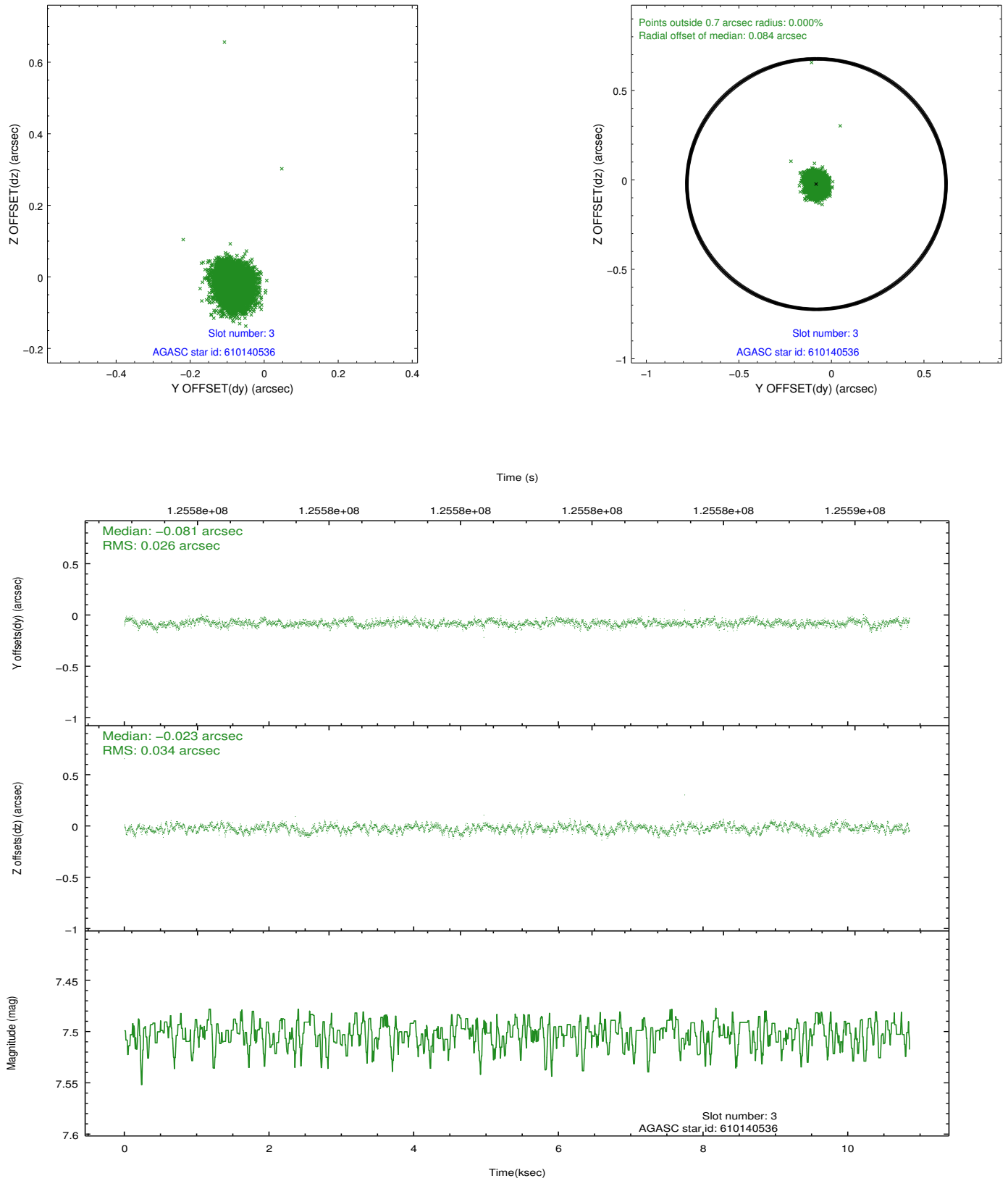


### Slot Statistics

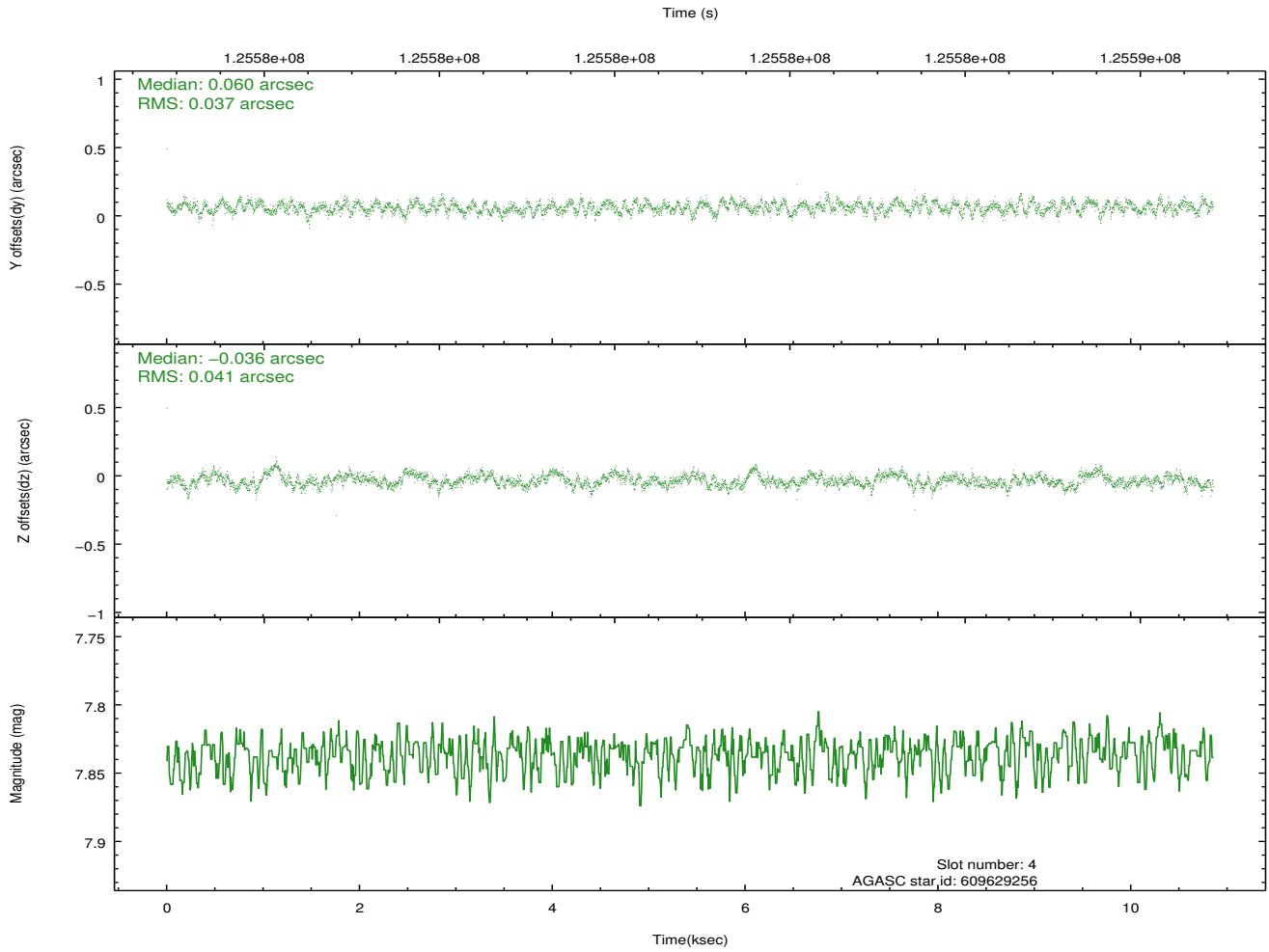
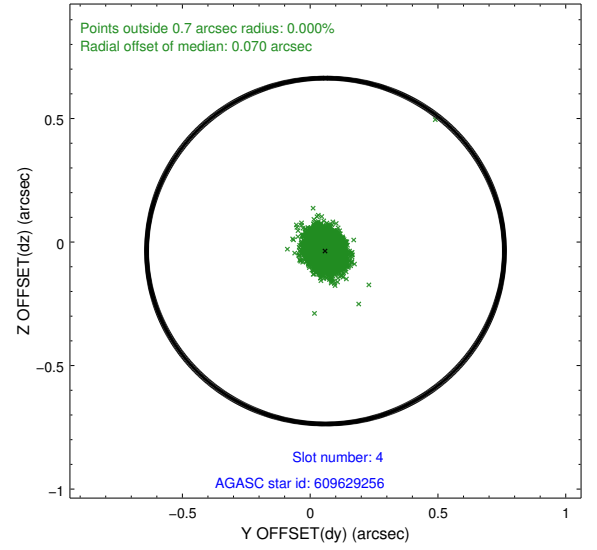
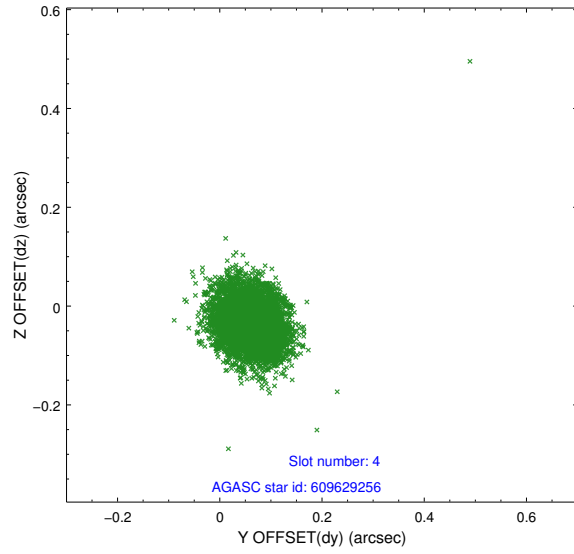
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-3	7.42	2648	-0.001	0.191	0.006	0.012	0.000000	0.000000	55.13	-1122.25
1	FID	ACIS-I-5	7.22	2646	-0.114	0.009	0.007	0.011	0.000000	0.000000	-1810.56	907.95
2	FID	ACIS-I-6	7.27	2646	0.023	-0.131	0.006	0.010	0.000000	0.000000	402.79	1552.90
3	GUIDE	610140536	7.50	5293	-0.081	-0.023	0.045	0.071	268.599117	86.558652	2002.96	2192.86
4	GUIDE	609629256	7.84	5294	0.060	-0.036	0.058	0.092	265.708525	85.670109	1000.38	-924.01
5	GUIDE	609615896	8.10	5294	-0.014	-0.025	0.054	0.089	251.317191	86.069850	-2264.62	1362.61
6	GUIDE	609618888	8.94	5295	0.053	0.092	0.059	0.095	253.783495	85.619583	-2213.96	-379.90
7	GUIDE	609628696	9.25	5290	-0.020	-0.012	0.067	0.111	263.115679	85.534122	221.67	-1307.57

## 2.4 Star Slots

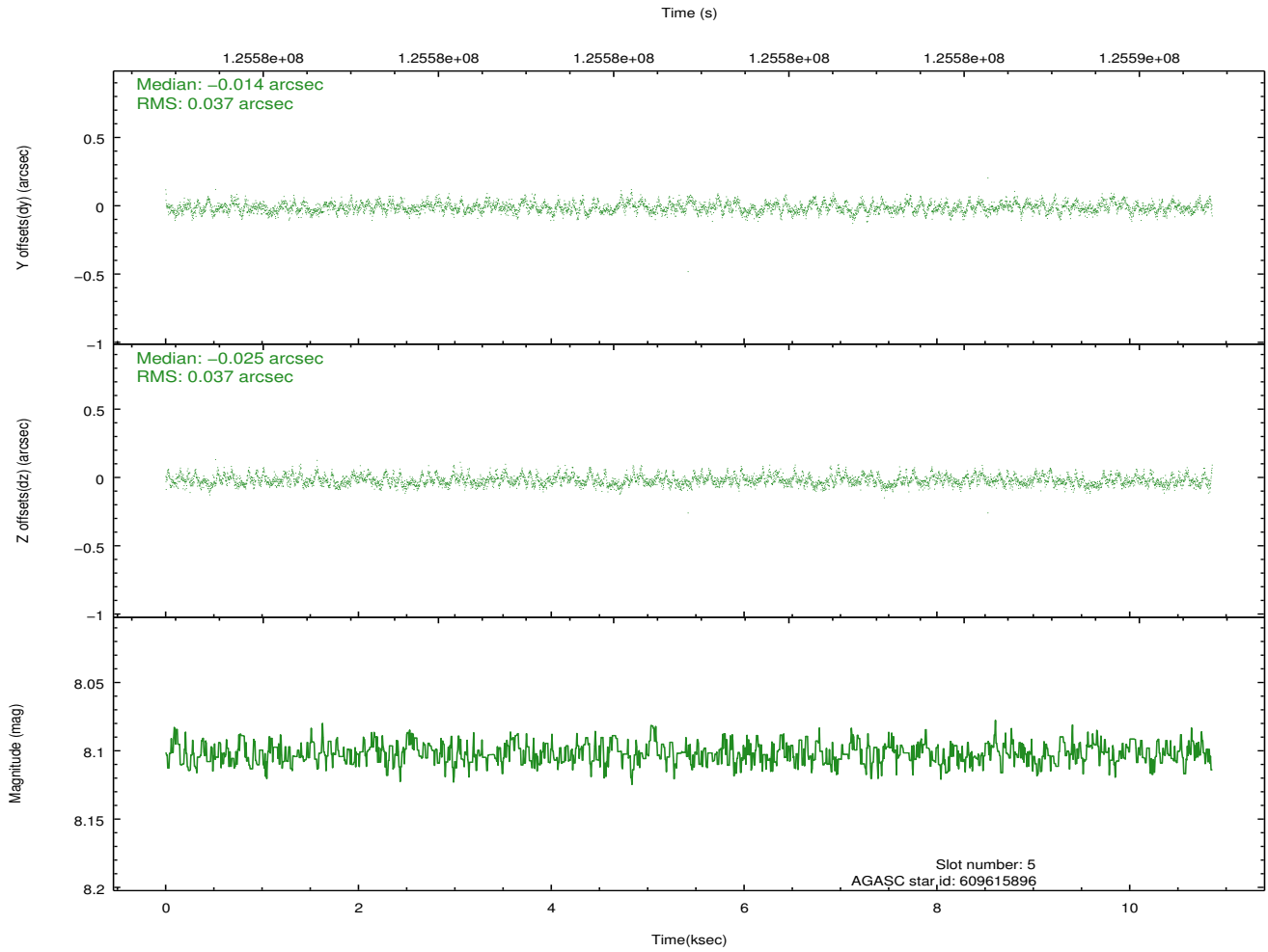
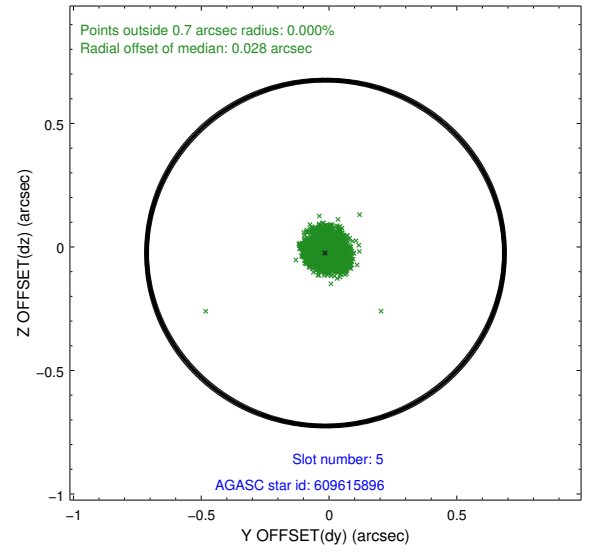
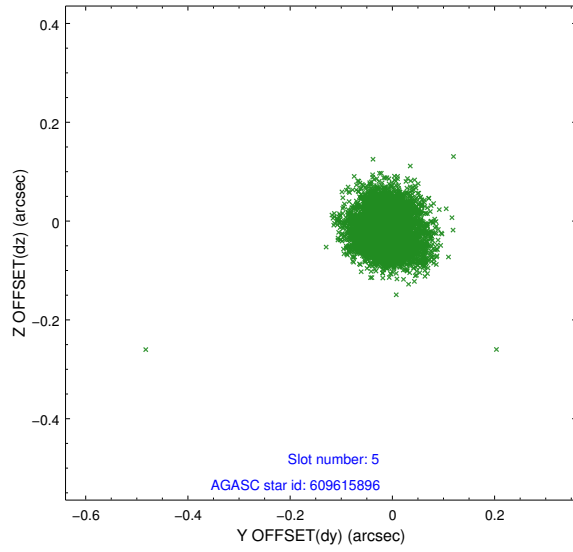
### 2.4.1 Slot 3



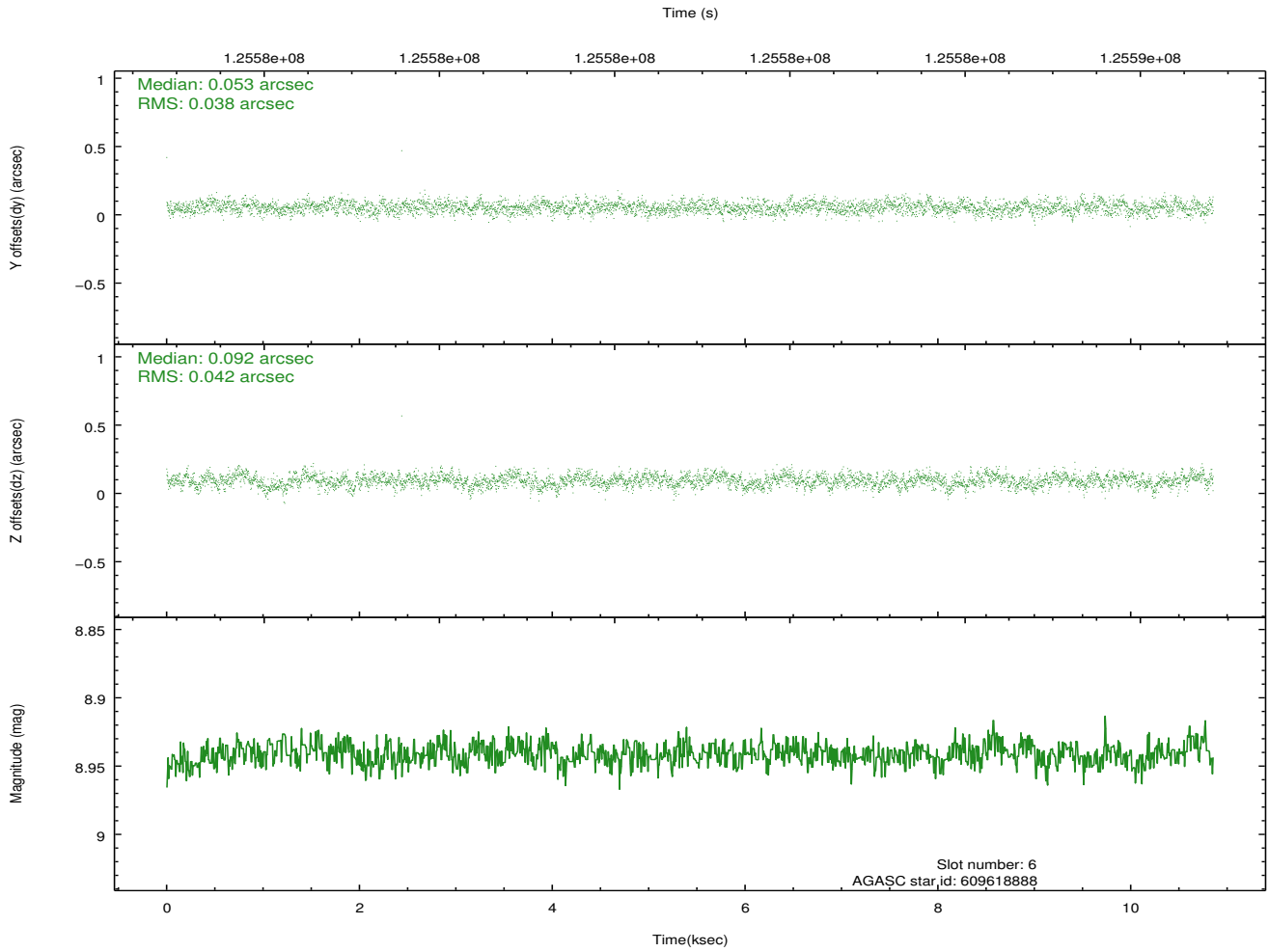
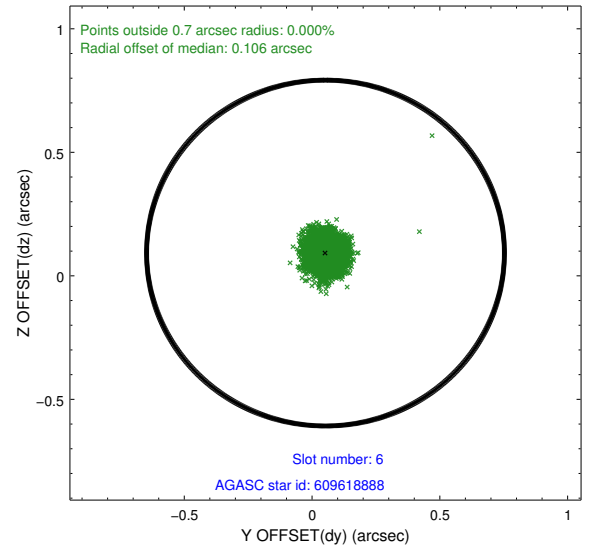
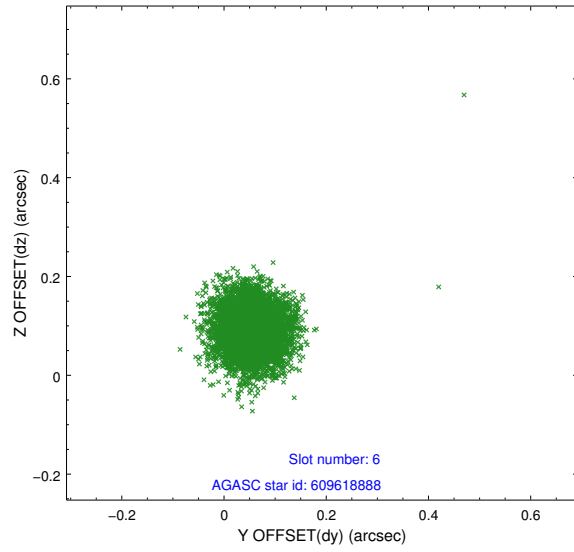
## 2.4.2 Slot 4



### 2.4.3 Slot 5

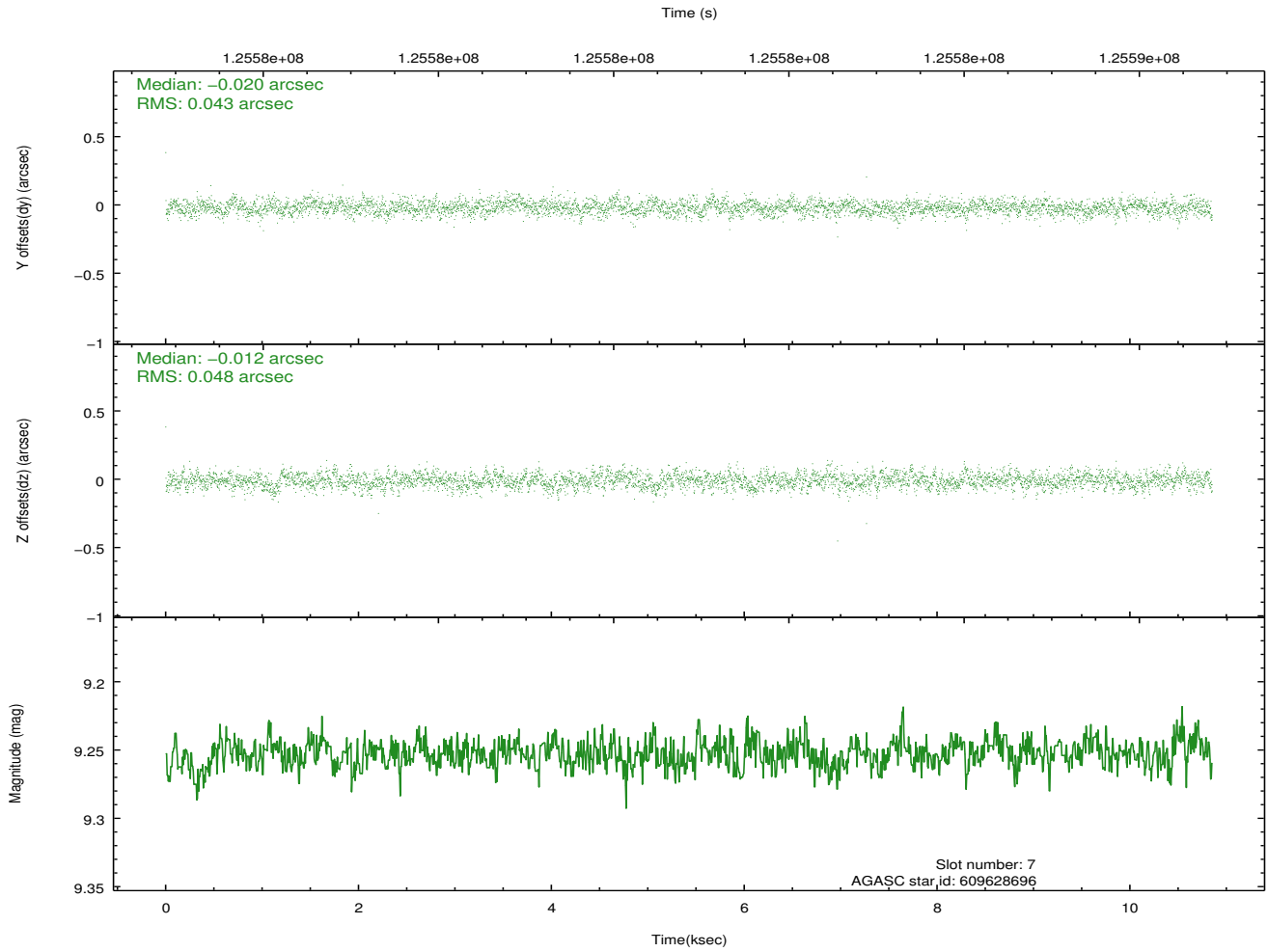
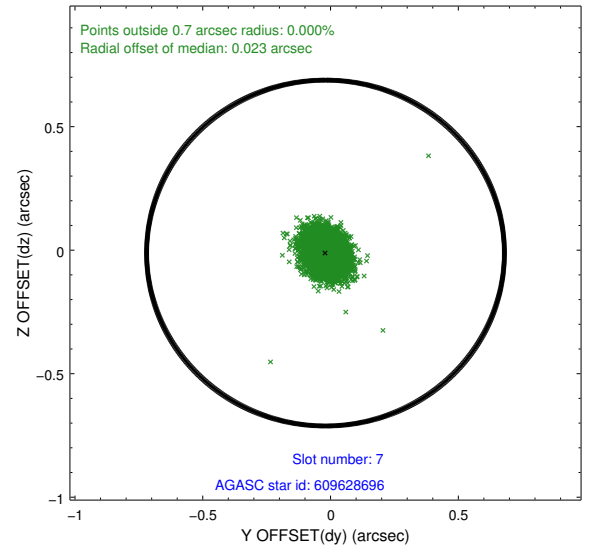
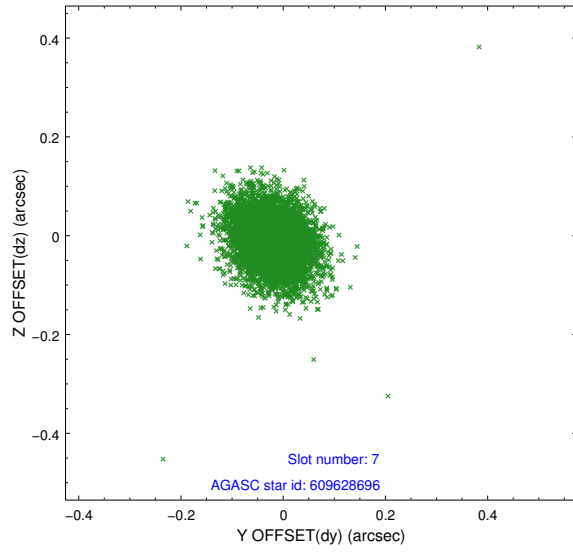


## 2.4.4 Slot 6



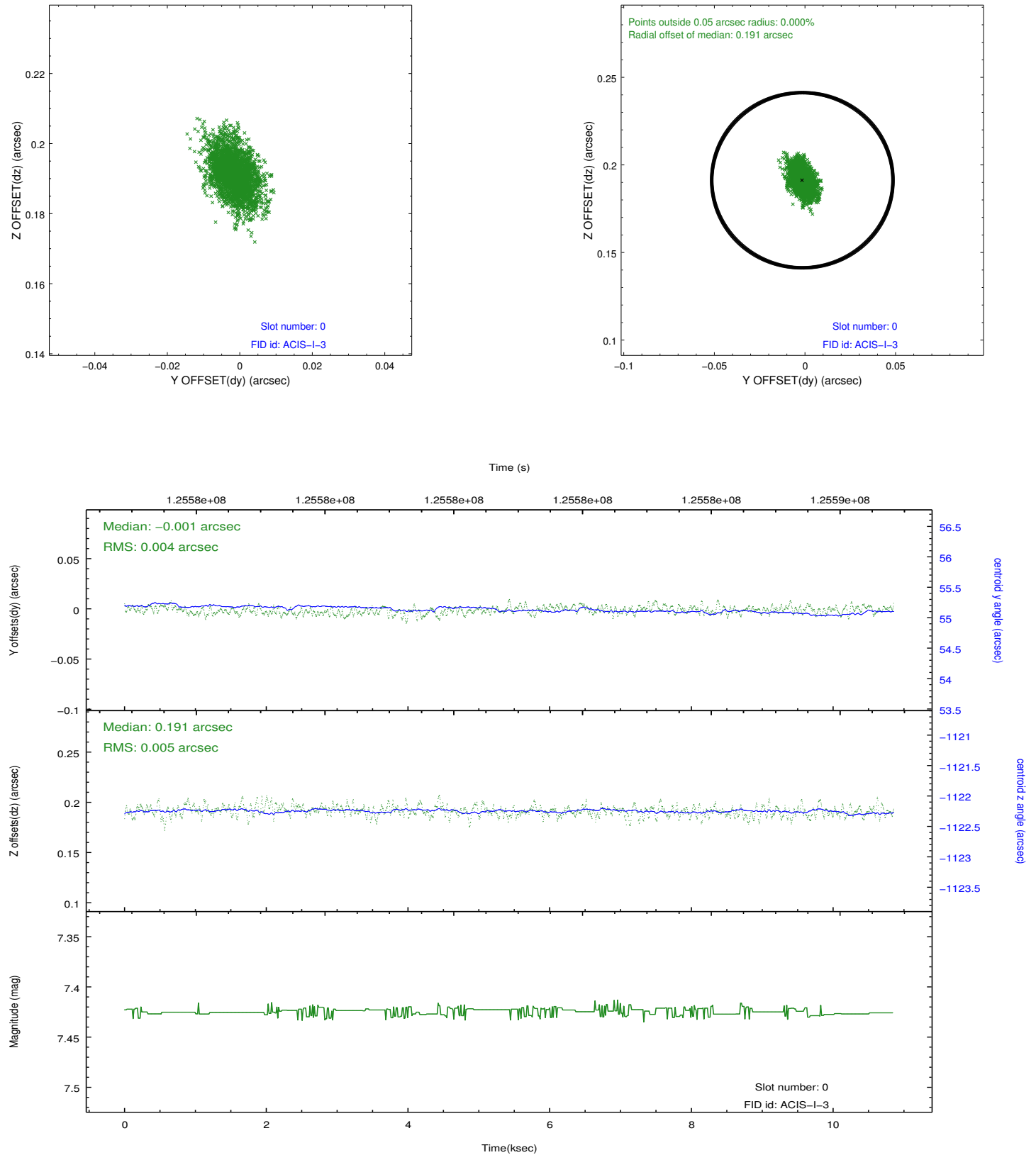


## 2.4.5 Slot 7

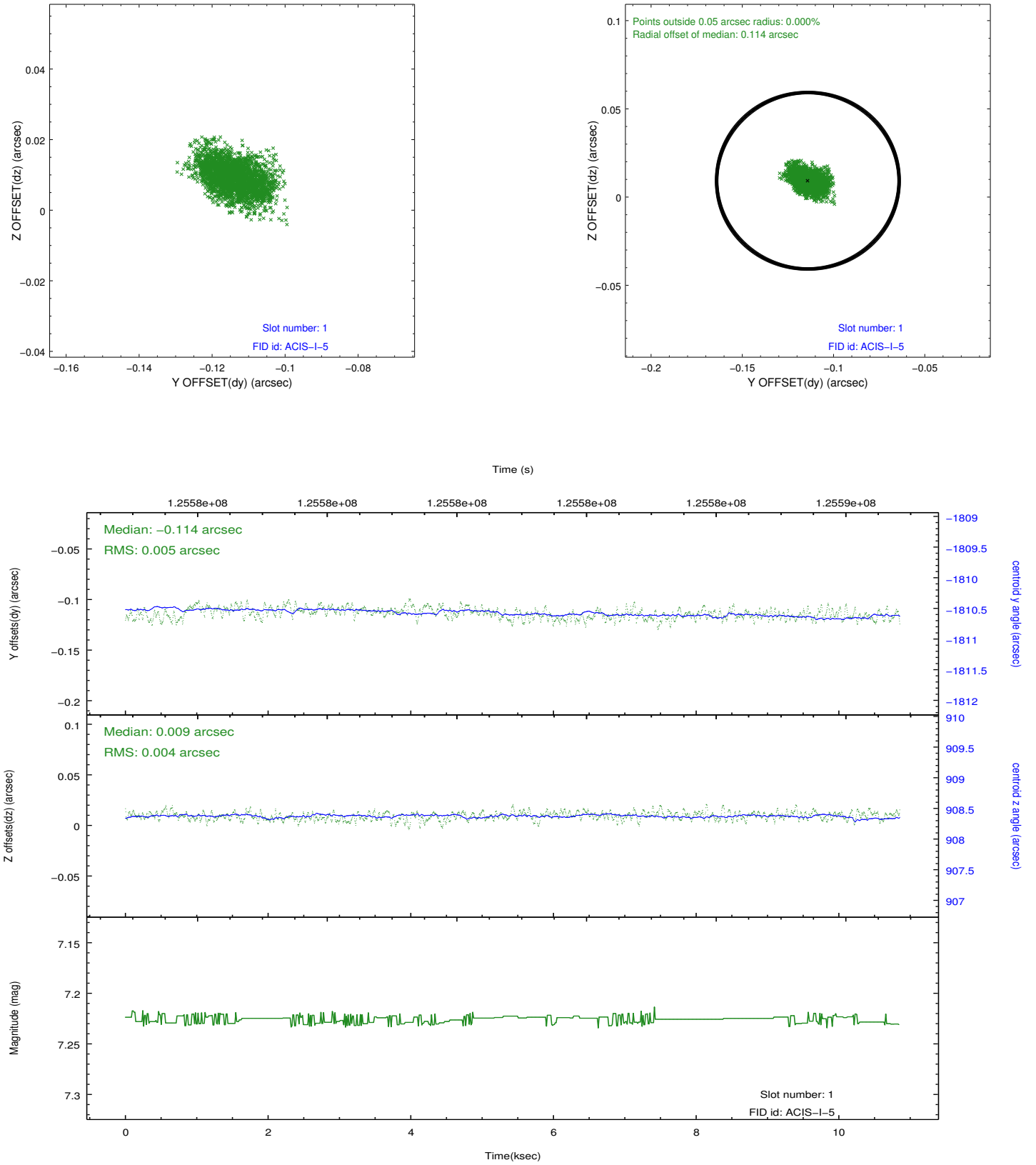


## 2.5 FID Slots

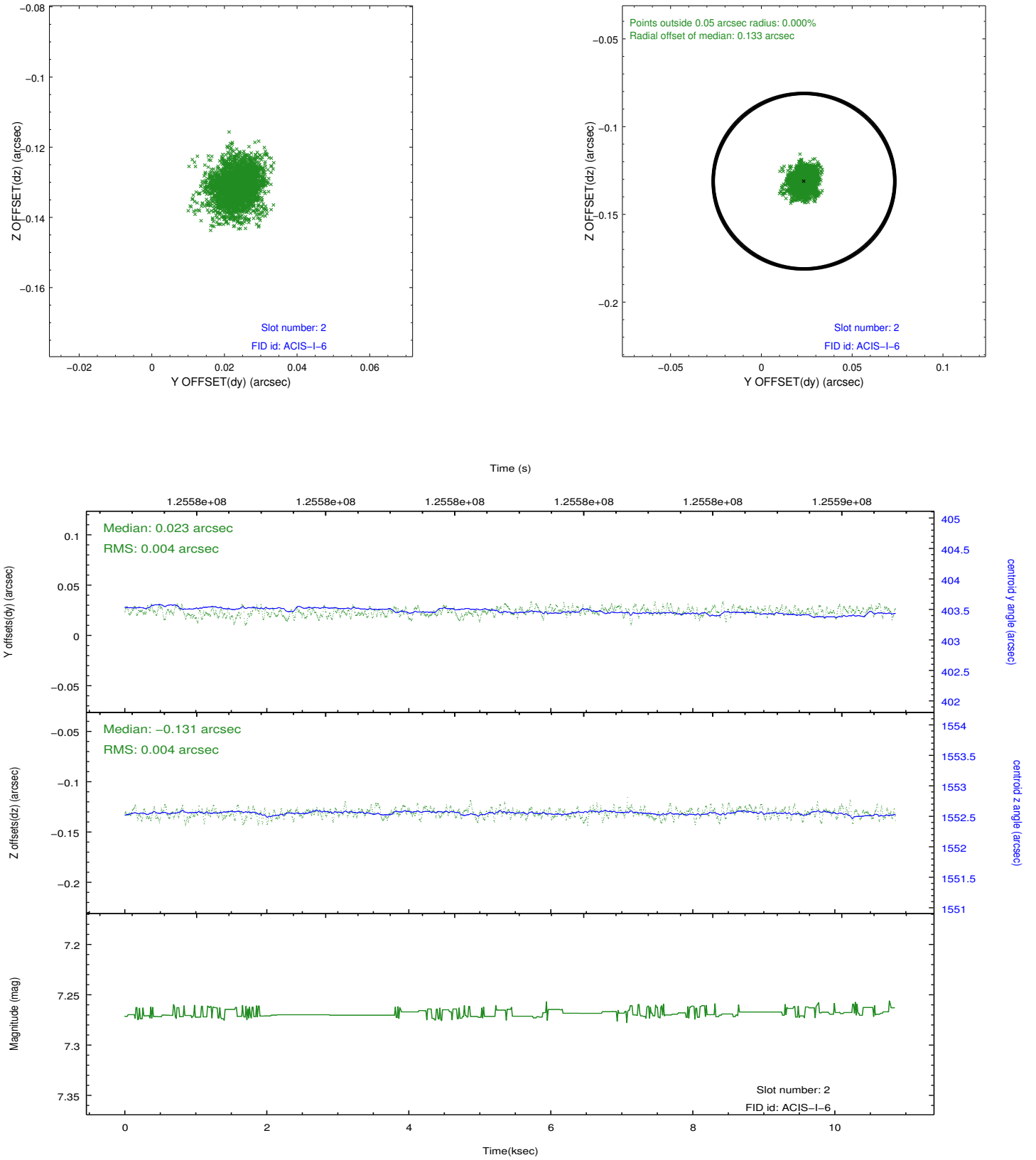
### 2.5.1 Slot 0



## 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)	2012.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.121

### **A.2 Comments**