

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11680 - L2 Version 2  
Chandra X-Ray Center

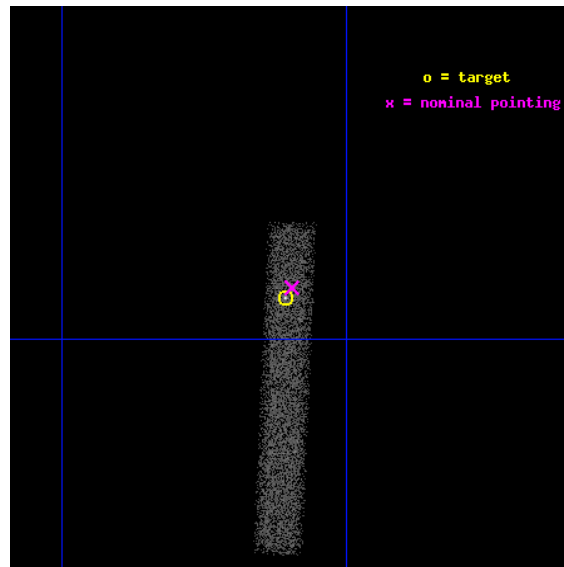
L2 Processing Date : Jun 13 2012

## 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

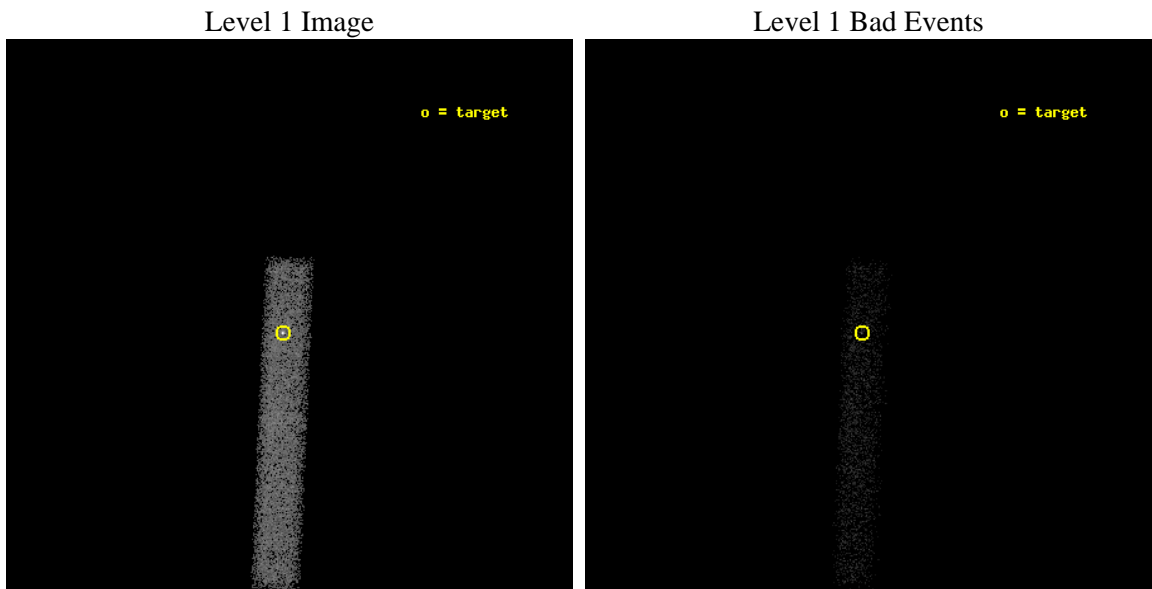
seq_num	702266	Sequence number
obs_id	11680	Observation id
title	Investigating the Nuclear Activity of Barred and Unbarred Spiral Galaxies	Proposal title
observer	Dr Leigh Jenkins	Principal investigator
object	NGC 788	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	30.276875	Observer's specified target RA [deg]
dec_targ	-6.815528	Observer's specified target Dec [deg]
ra_nom	30.274151856362	Nominal RA [deg]
dec_nom	-6.8115082149224	Nominal Dec [deg]
roll_nom	92.471444745352	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15010.764670312	Sum of GTIs [s]
livetime	13613.971222848	Livetime [s]
ontime7	15010.764670312	Sum of GTIs [s]
l2events	11383	Number of level 2 events



## 2 OBI

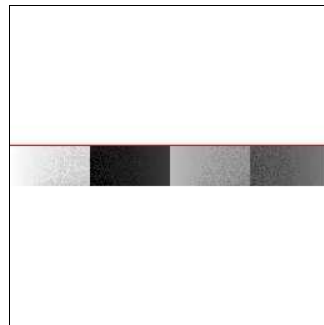
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15010.764670312	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime7	15010.764670312	Sum of GTIs [s]
date	2012-06-13T02:54:35	Date and time of file creation	l1events	22041	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

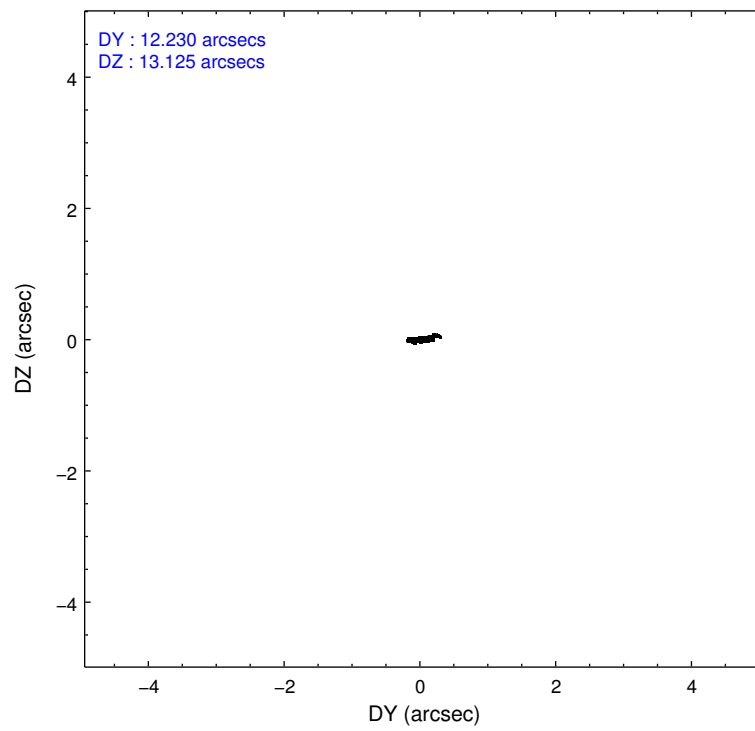
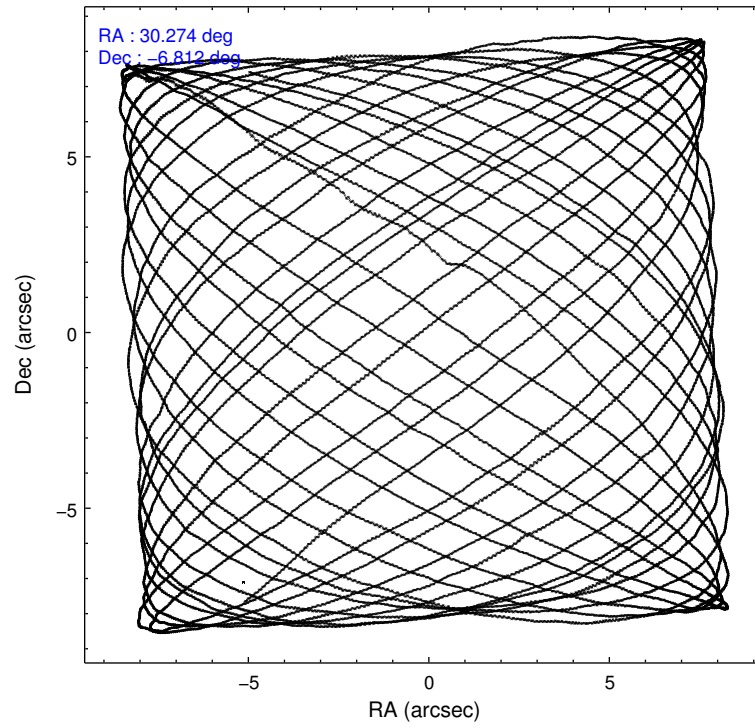
	<b>ccd 7</b>
level 1 events	22041
rejected events	10142
rejected %	<b>46%</b>

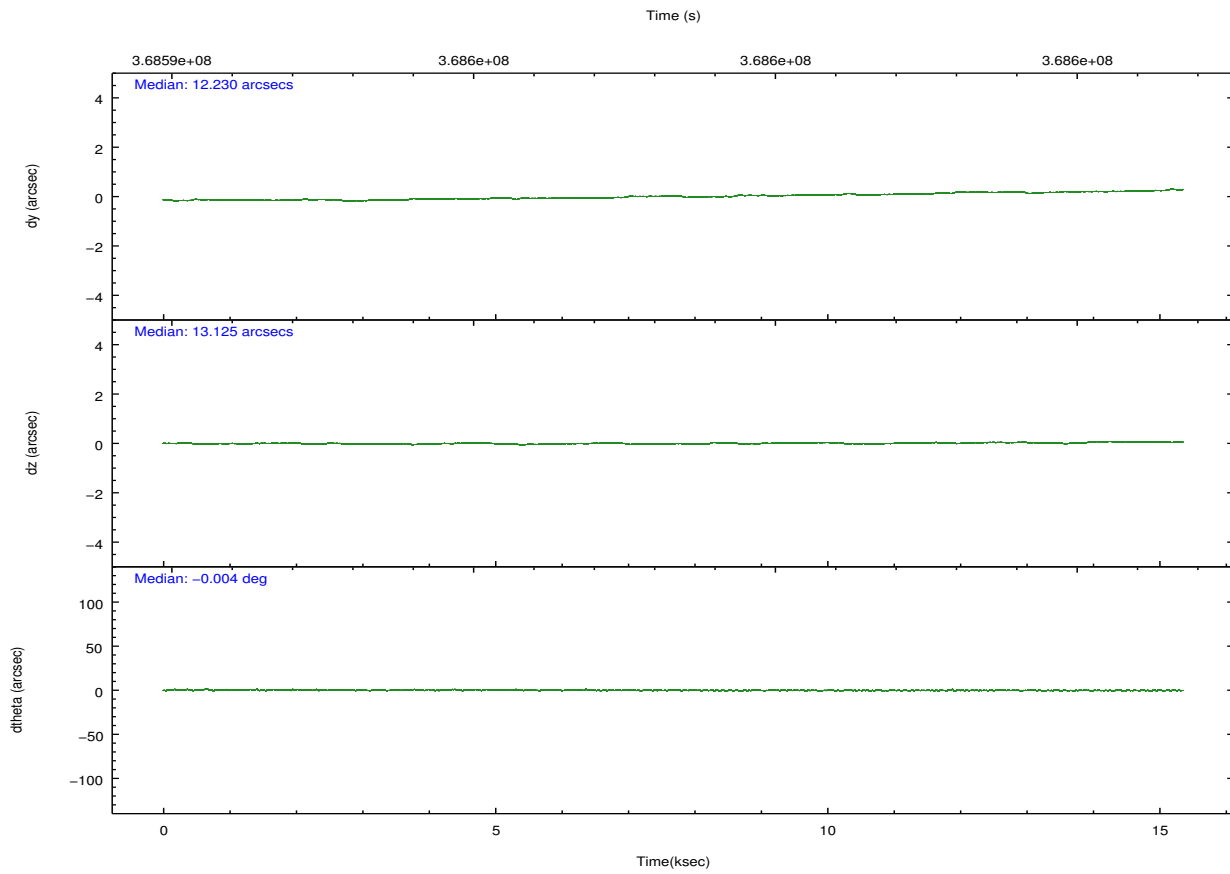
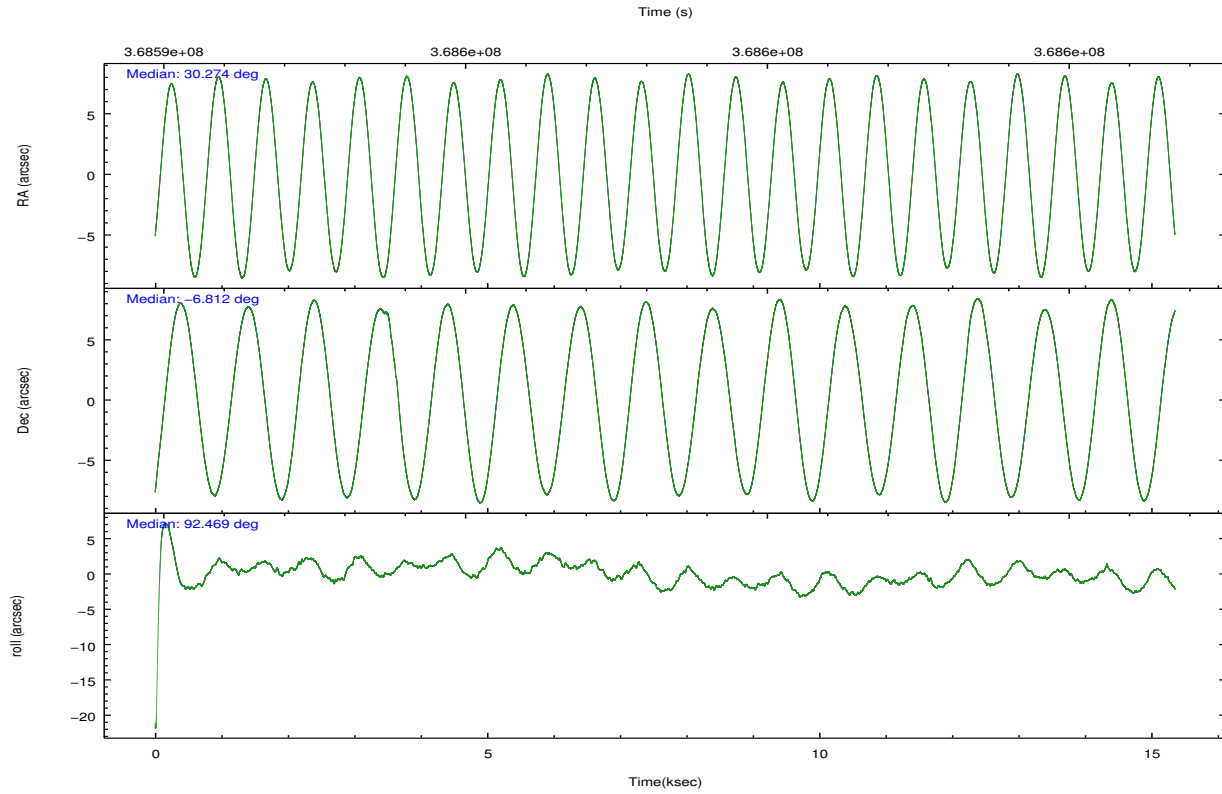
	<b>ccd 7</b>
grade 0 events	1522
	6%
grade 1 events	30
	0%
grade 2 events	2387
	10%
grade 3 events	1657
	7%
grade 4 events	1446
	6%
grade 5 events	2043
	9%
grade 6 events	4887
	22%
grade 7 events	8069
	36%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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
[deg] Pointing RA	30.289240	30.2741518563621	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-6.834378	-6.81150821492235	Subarray start row	449	449
[deg] Pointing Roll	92.316612	92.47144474535152	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	368590970.184000	368590349.5154			
Observation start date	2009-09-06T02:21:44	2009-09-06T02:12:29			
[s] Observation end time (MET)	368605970.184000	368606680.32872			
Observation end date	2009-09-06T06:31:44	2009-09-06T06:44:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



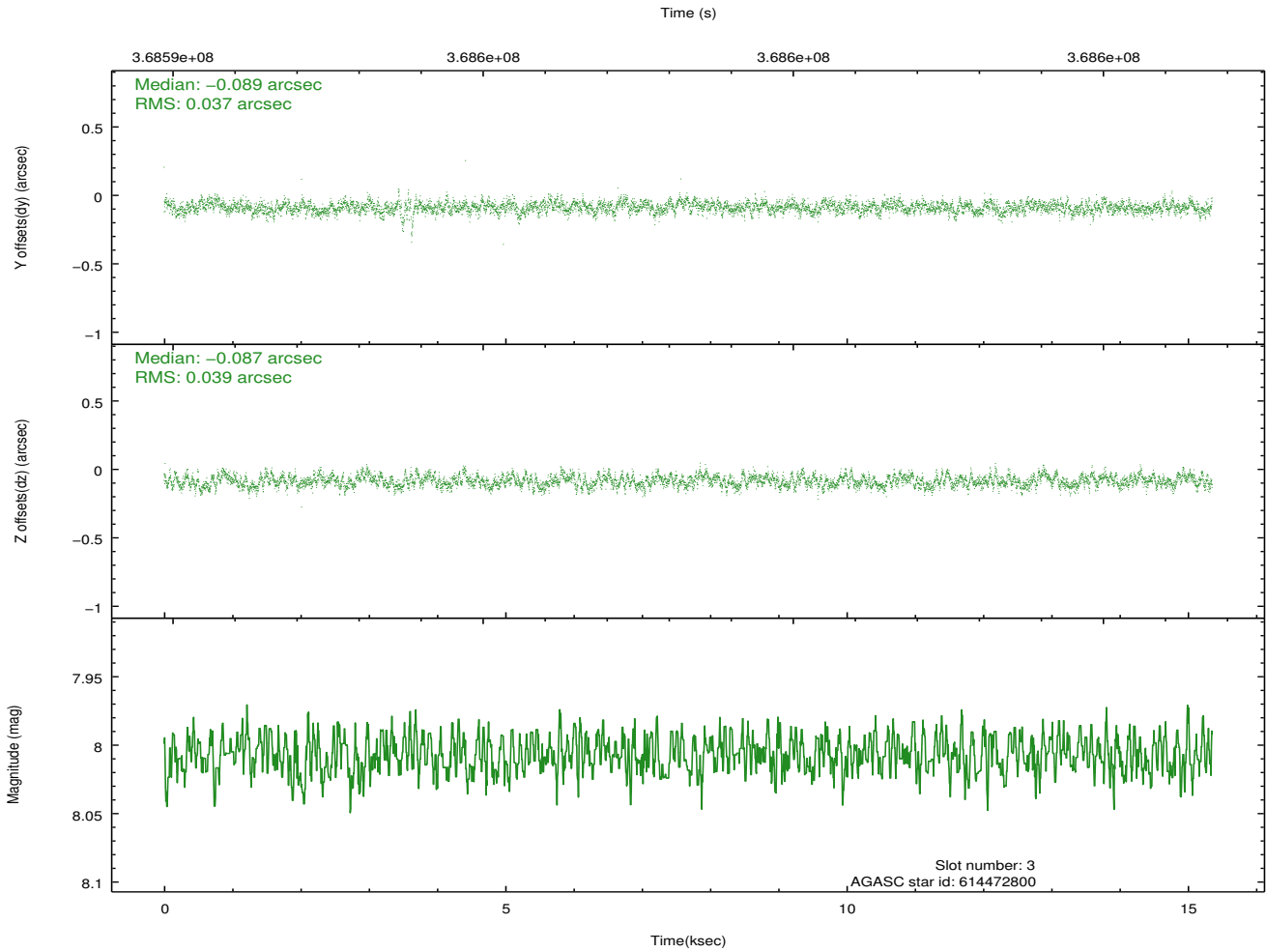
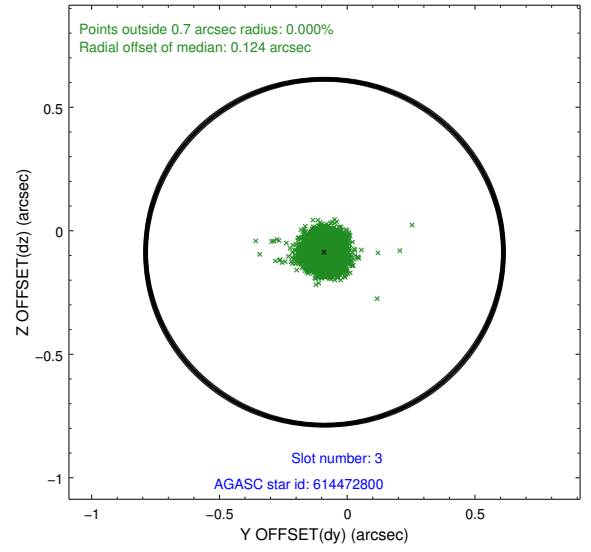
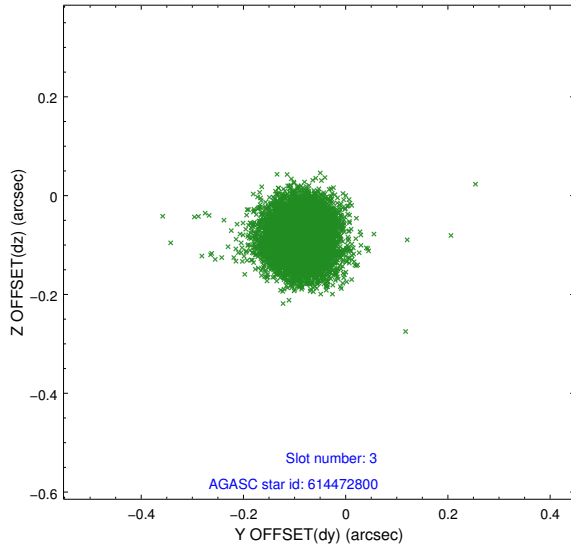


### Slot Statistics

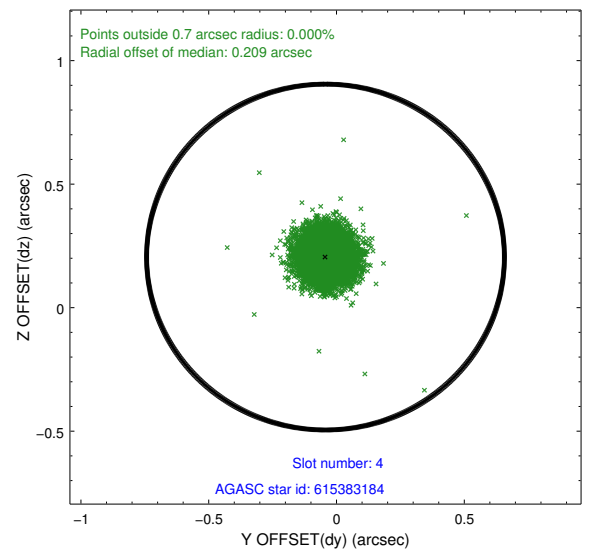
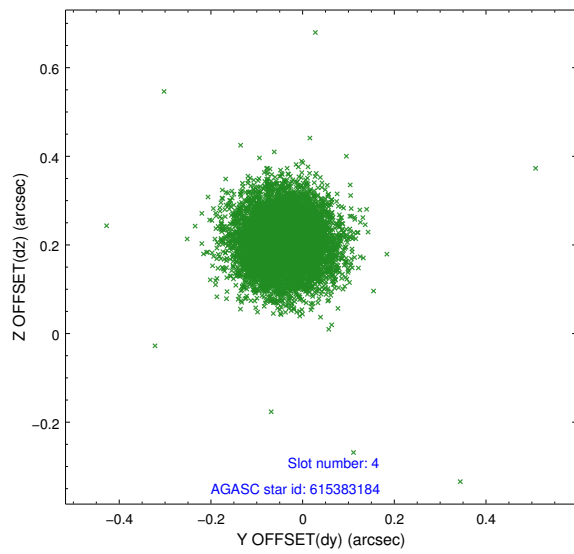
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	3745	-0.011	-0.025	0.007	0.011	0.000000	0.000000	-765.15	-1734.38
1	FID	ACIS-S-4	7.01	3744	0.100	0.012	0.006	0.012	0.000000	0.000000	2148.11	173.83
2	FID	ACIS-S-5	7.05	3745	-0.121	0.022	0.008	0.014	0.000000	0.000000	-1817.72	167.86
3	GUIDE	614472800	8.01	7489	-0.089	-0.087	0.057	0.092	29.980471	-7.016715	-611.64	1129.11
4	GUIDE	615383184	9.12	7484	-0.043	0.205	0.082	0.133	30.364461	-6.540440	1046.08	-311.78
5	GUIDE	615384328	8.40	7490	-0.120	-0.179	0.064	0.105	30.681865	-6.678272	504.52	-1425.44
6	GUIDE	615385624	8.59	7488	0.138	0.182	0.057	0.096	30.597192	-7.458156	-2288.22	-1008.06
7	GUIDE	615388776	9.01	7485	0.116	-0.119	0.075	0.121	30.187102	-7.383337	-1960.34	443.84

## 2.4 Star Slots

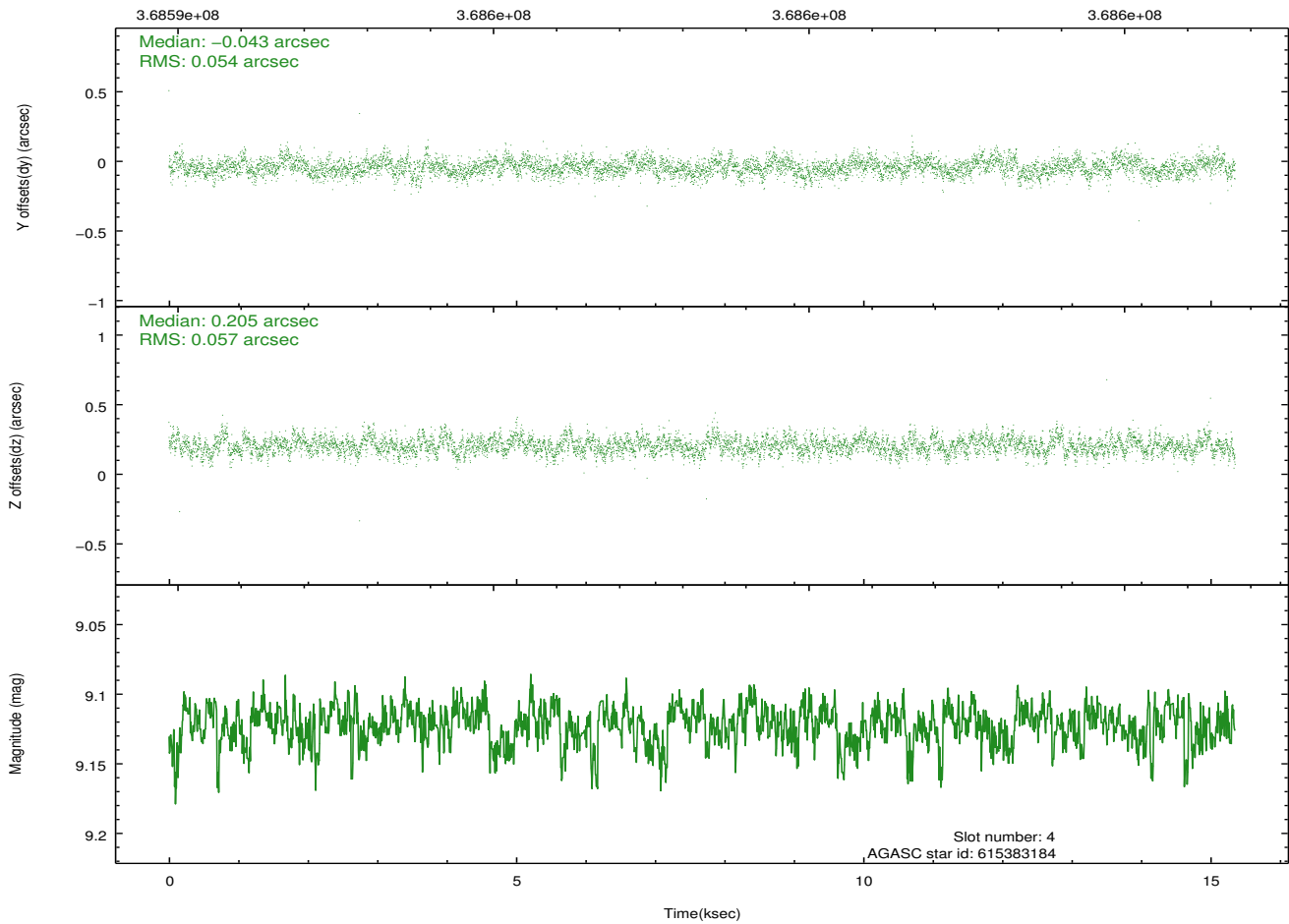
### 2.4.1 Slot 3



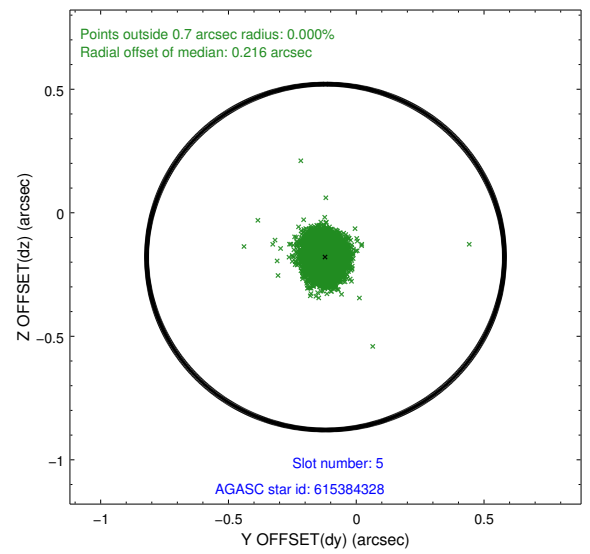
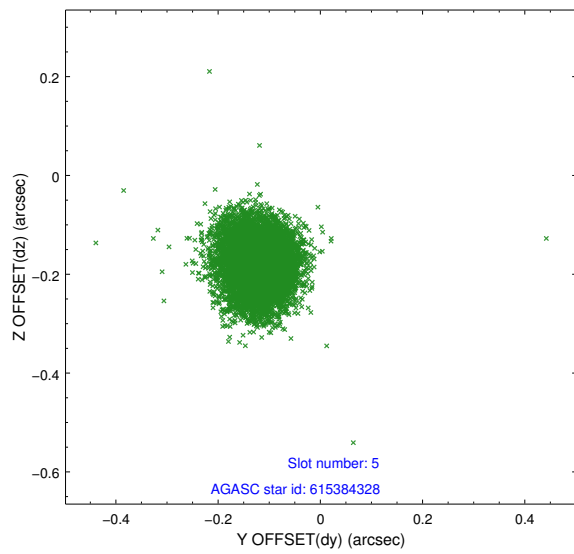
## 2.4.2 Slot 4



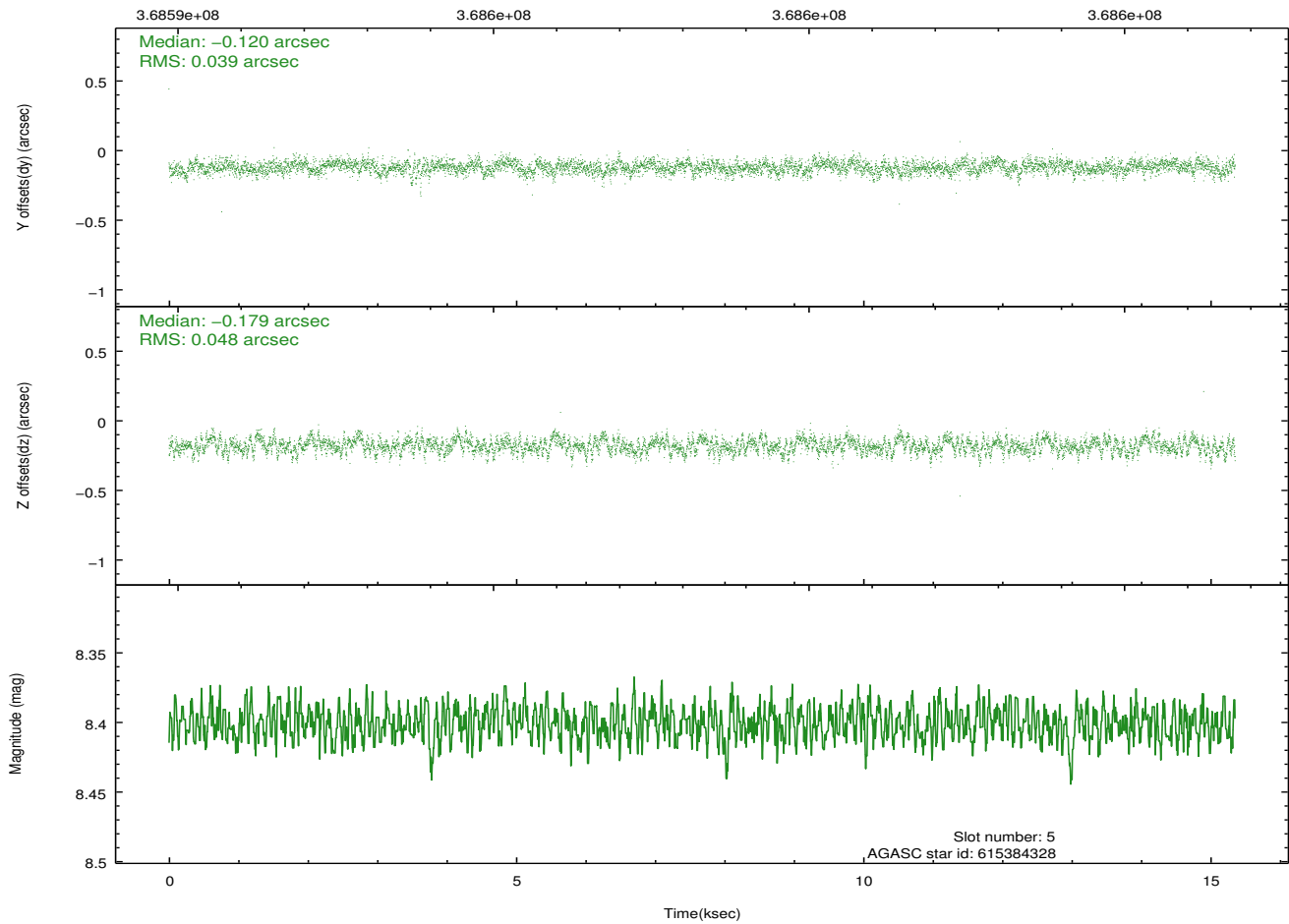
Time (s)



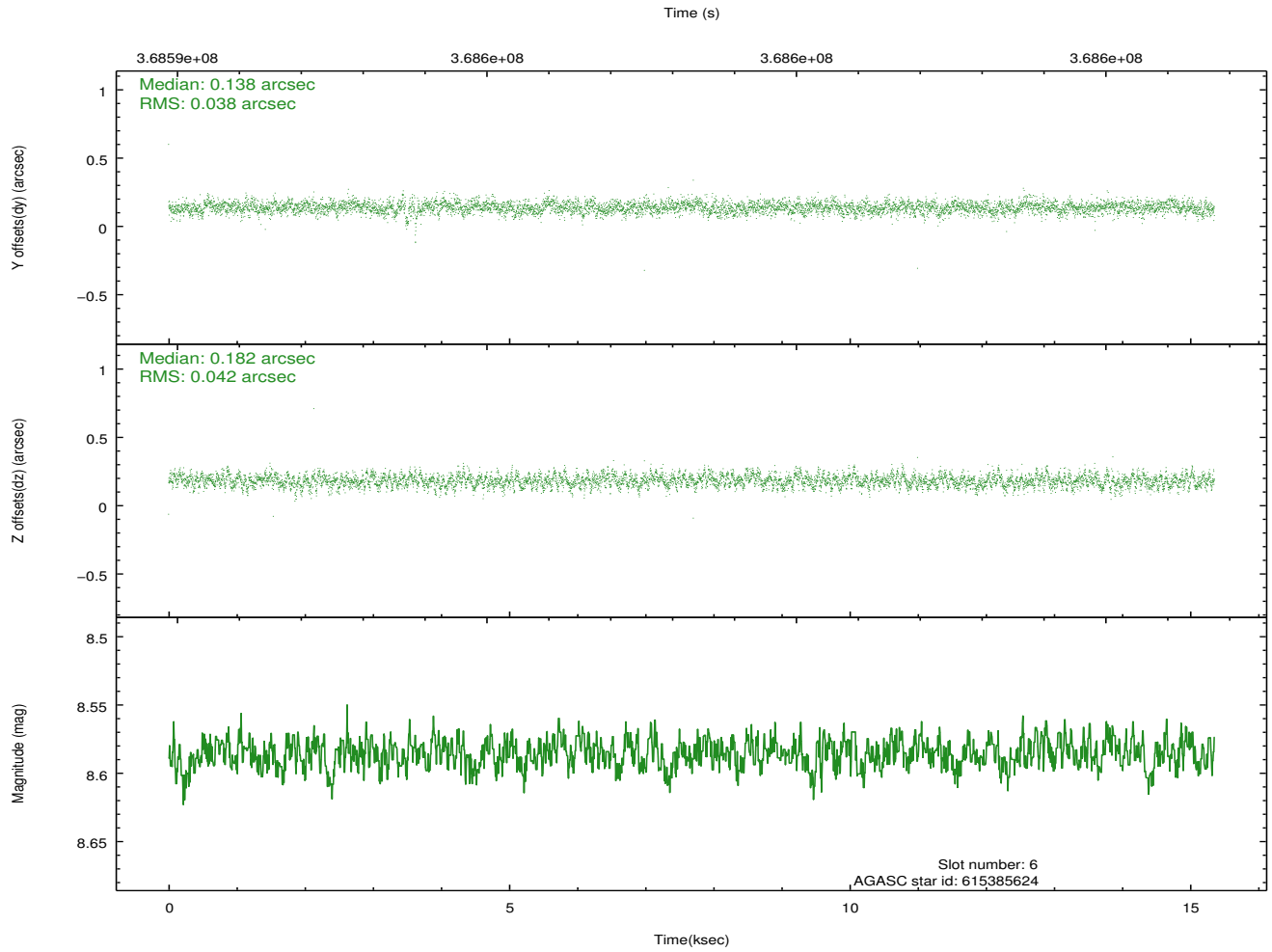
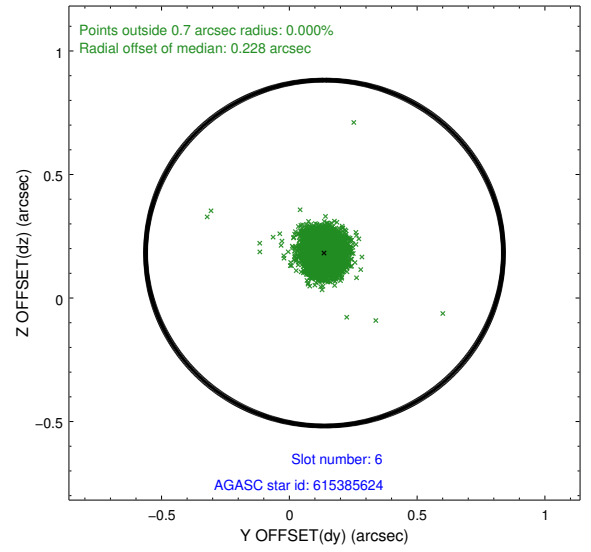
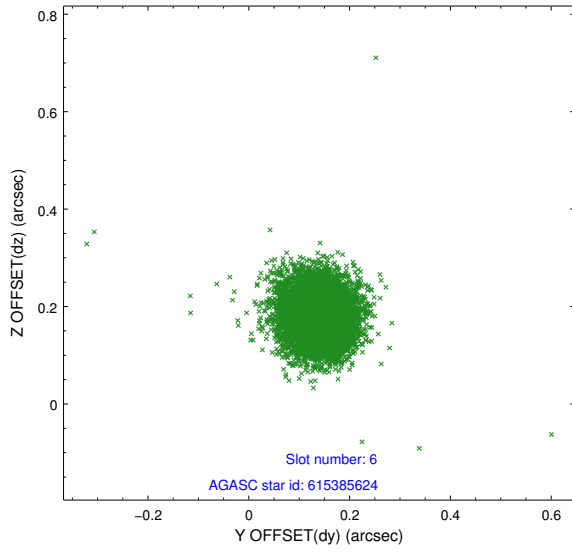
### 2.4.3 Slot 5



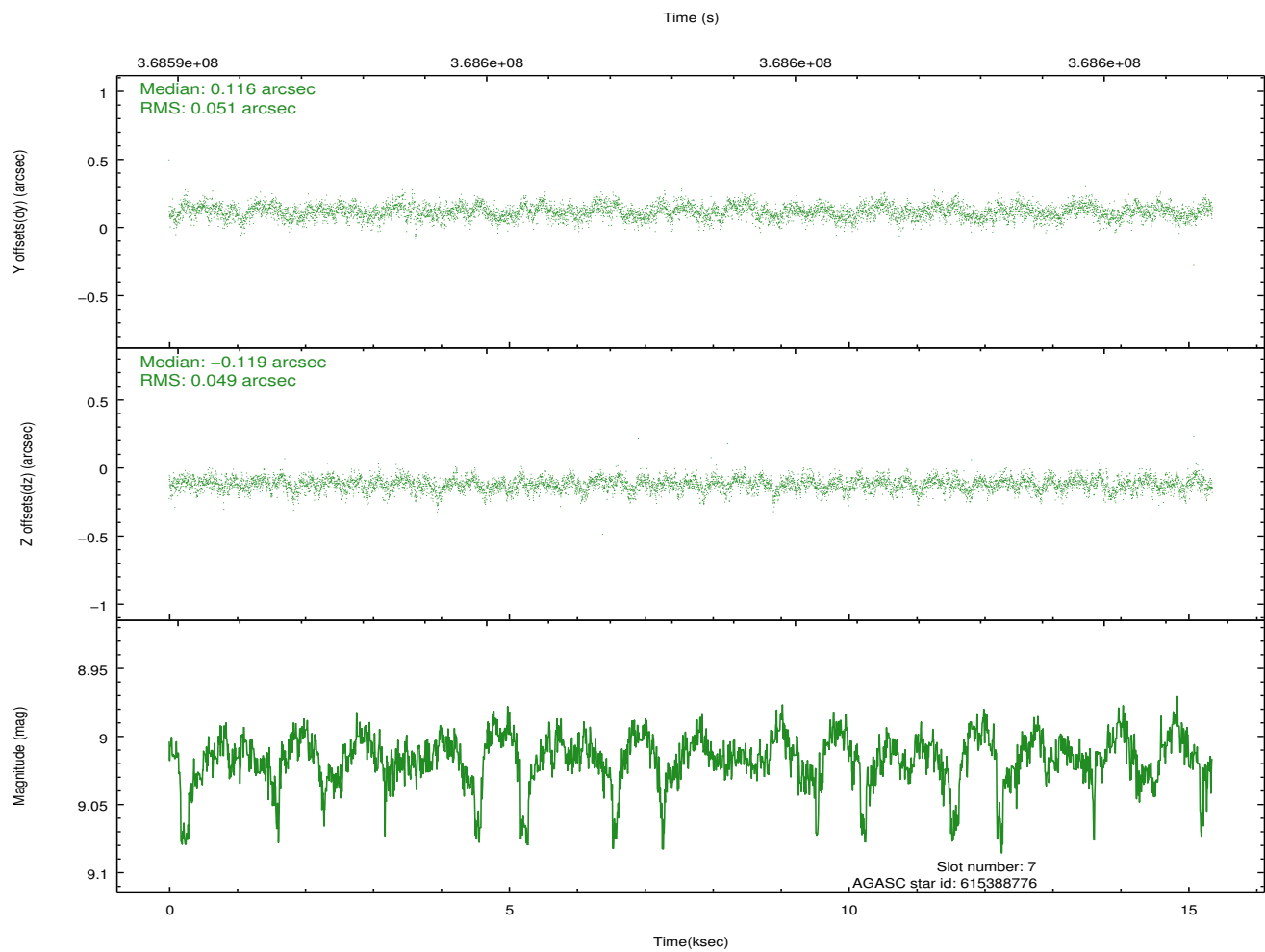
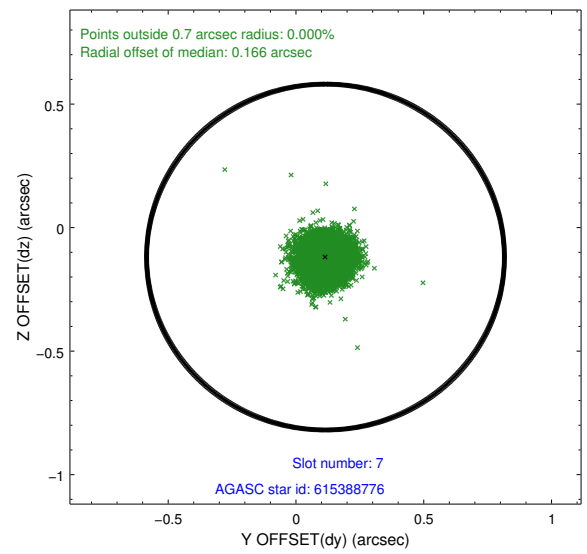
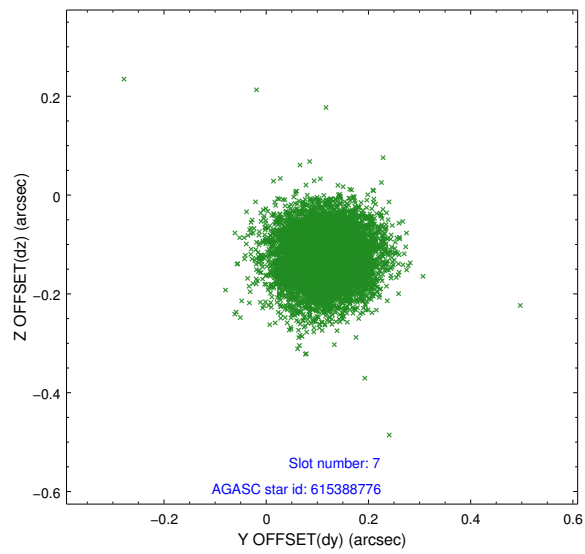
Time (s)



### 2.4.4 Slot 6

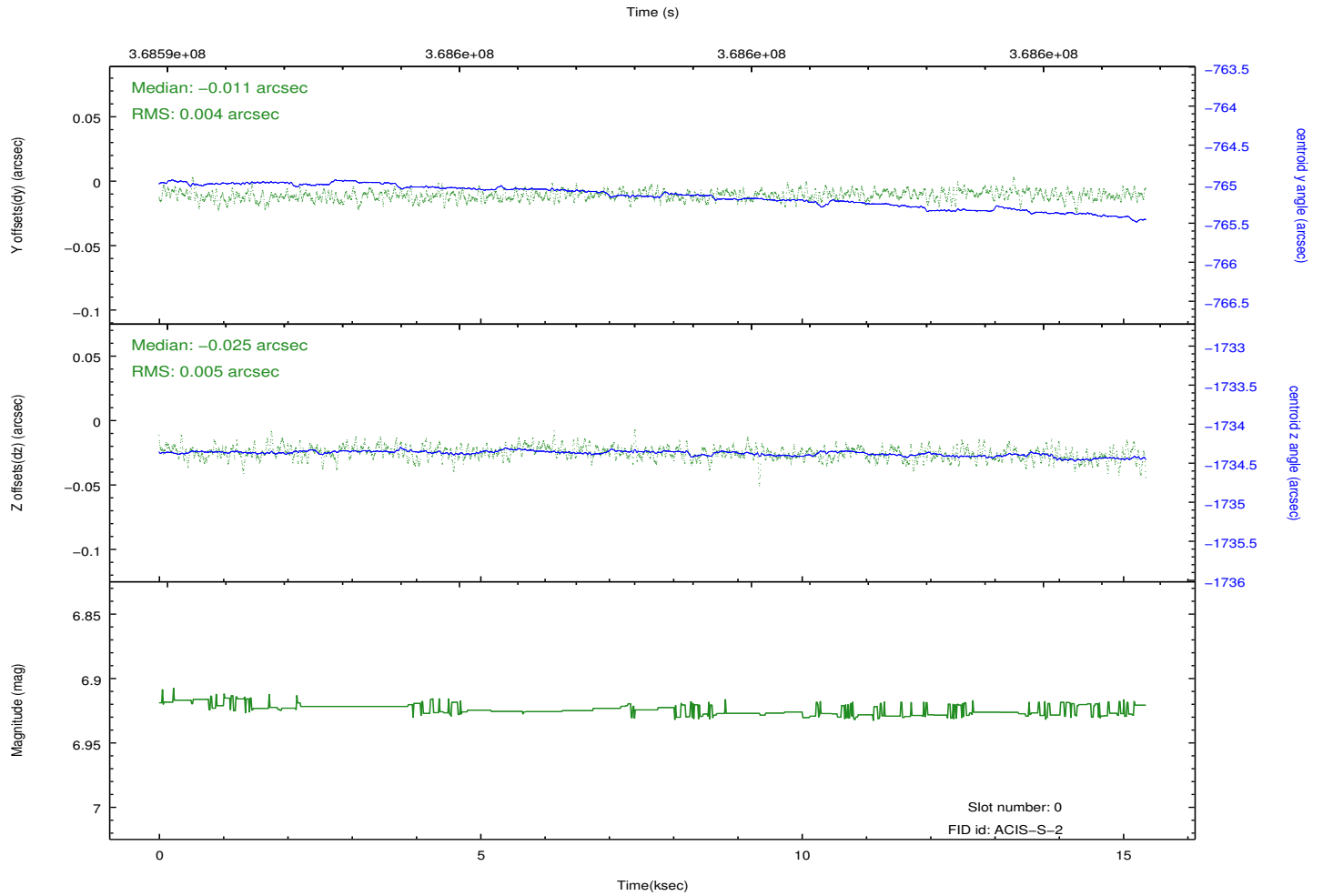
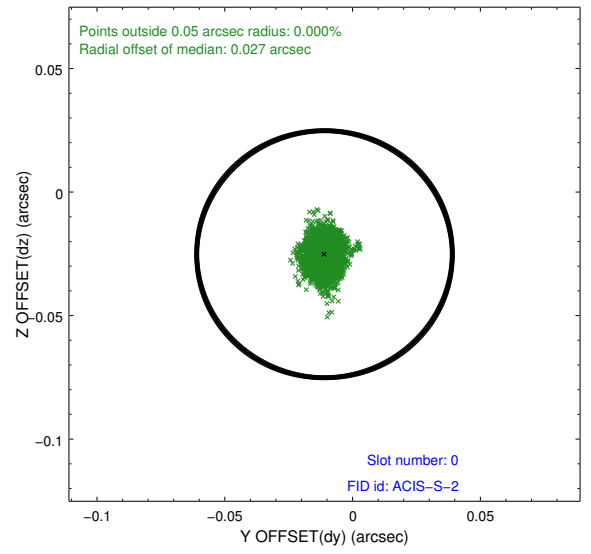
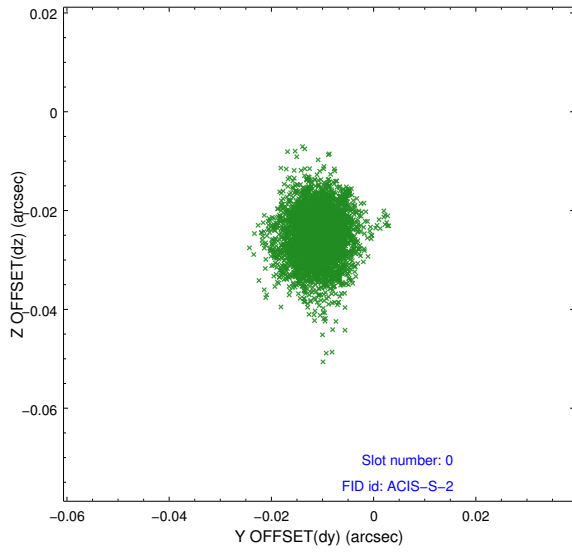


## 2.4.5 Slot 7

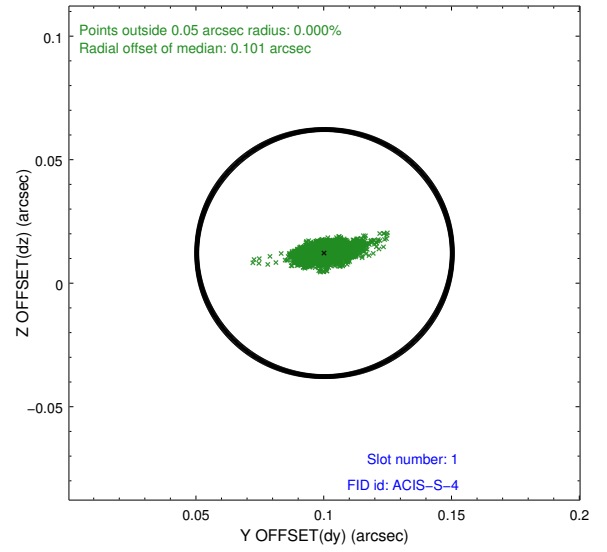
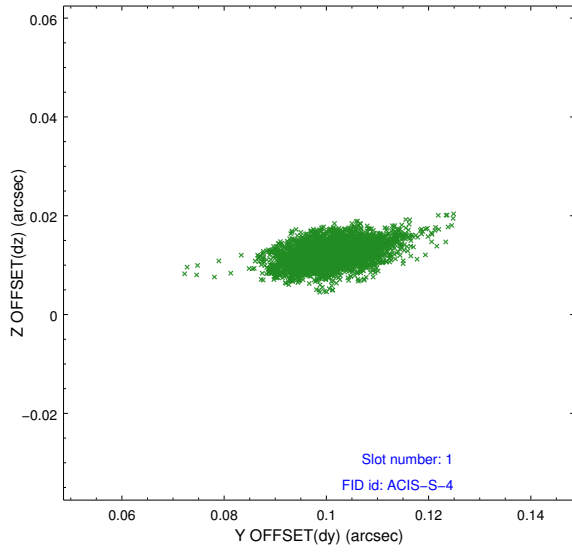


## 2.5 FID Slots

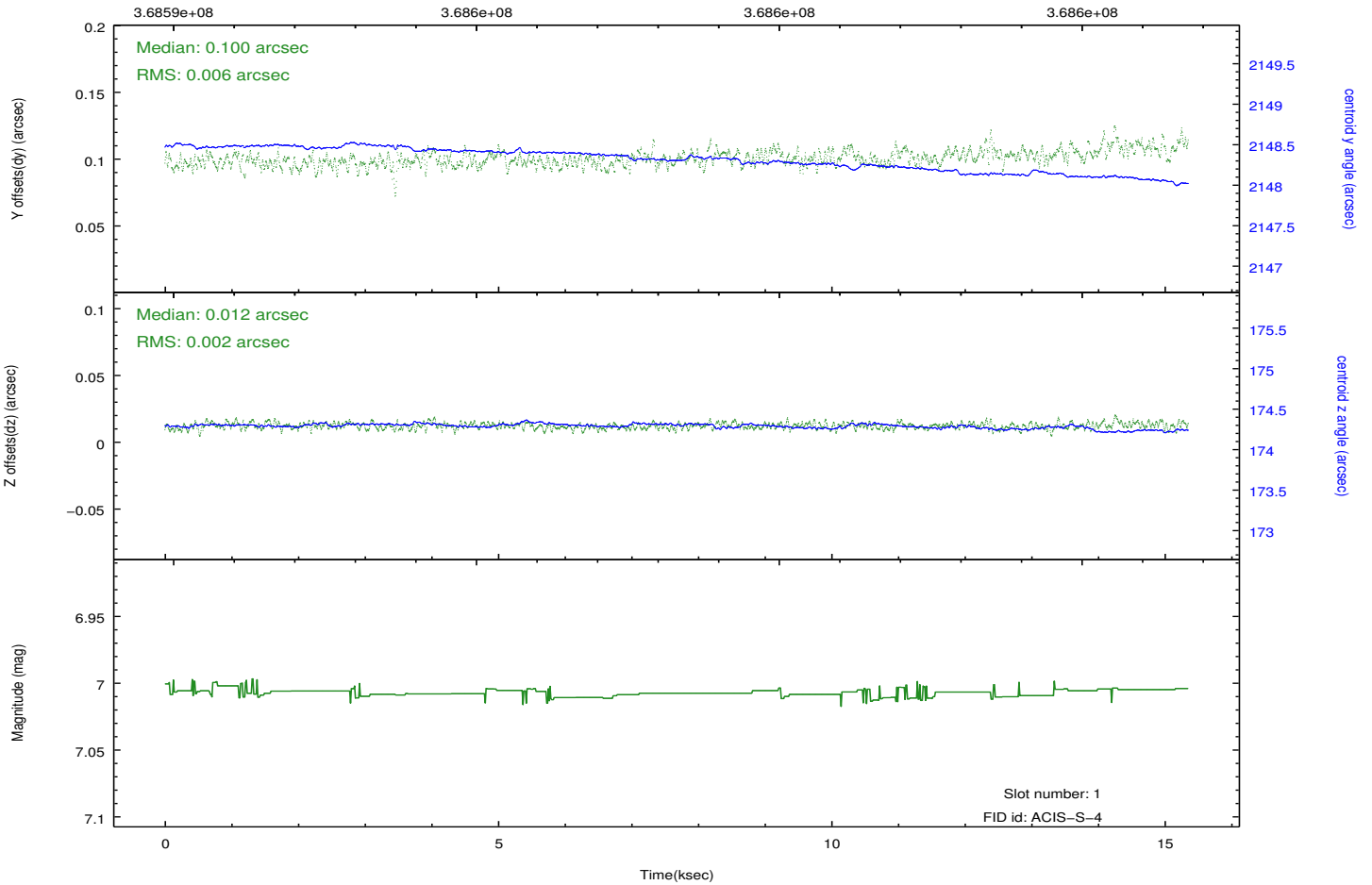
### 2.5.1 Slot 0



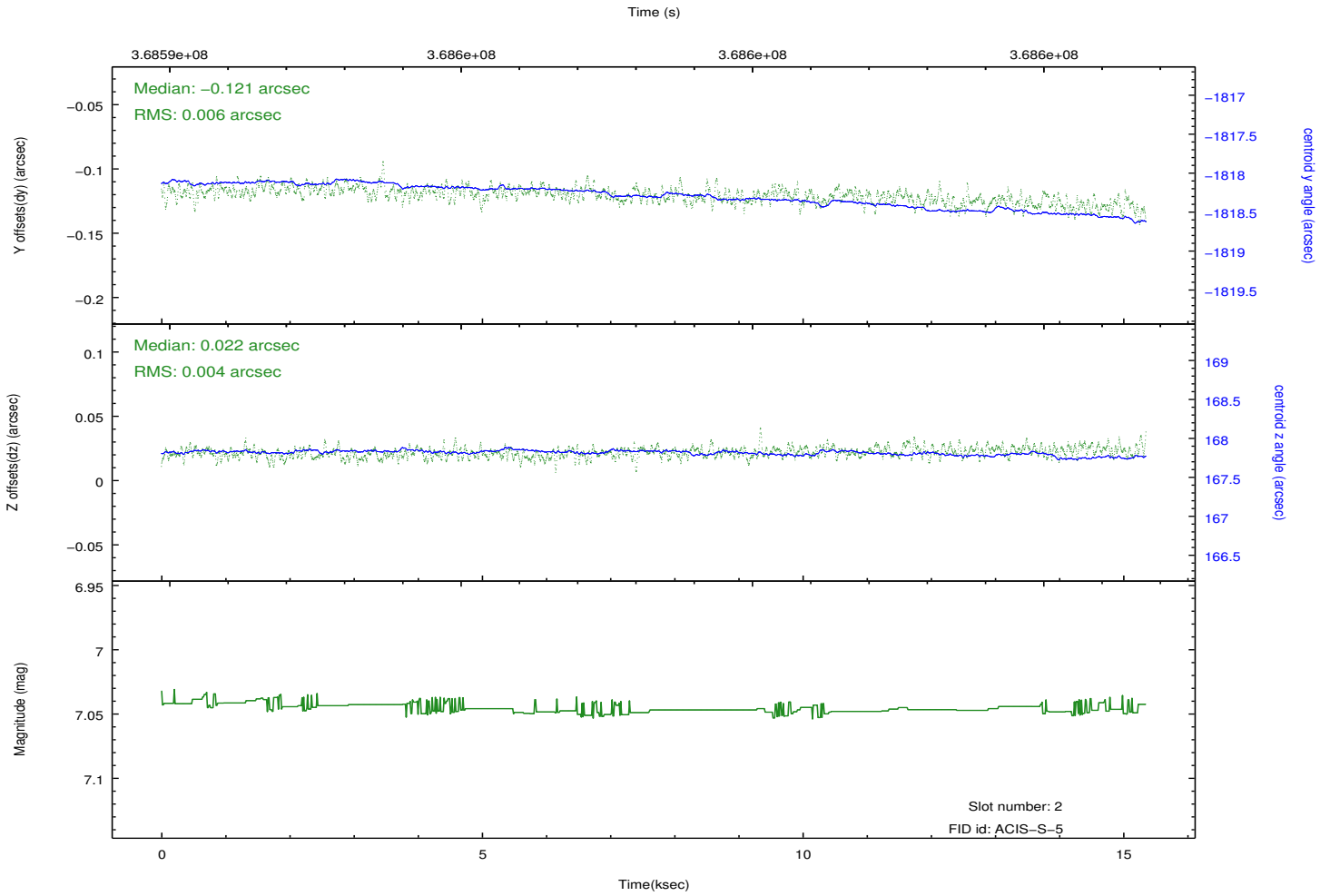
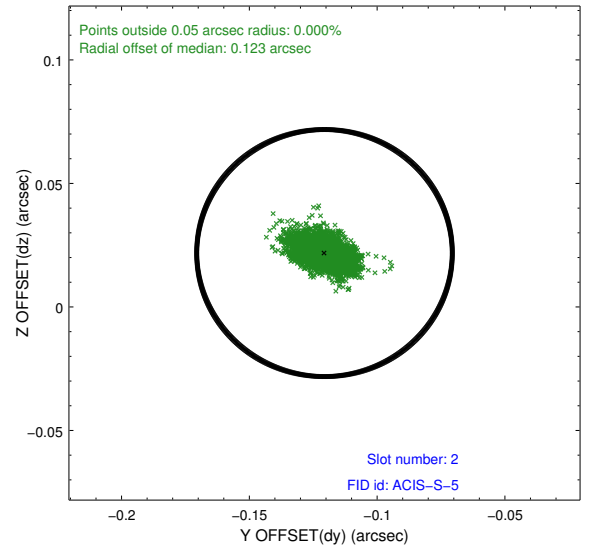
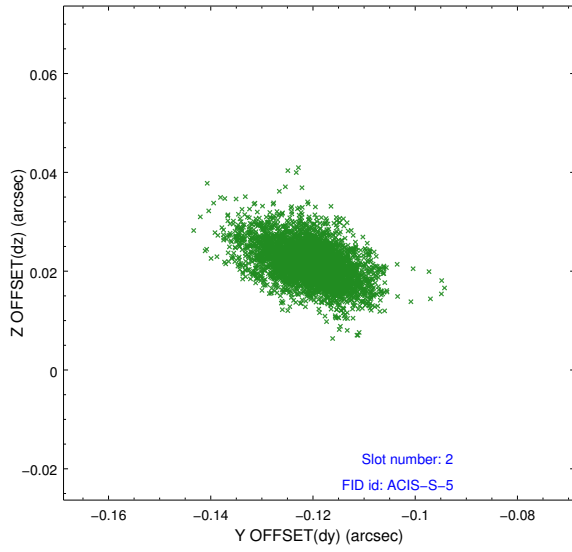
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.010764670134

## A.2 Comments