

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 21 - L2 Version 3  
Chandra X-Ray Center

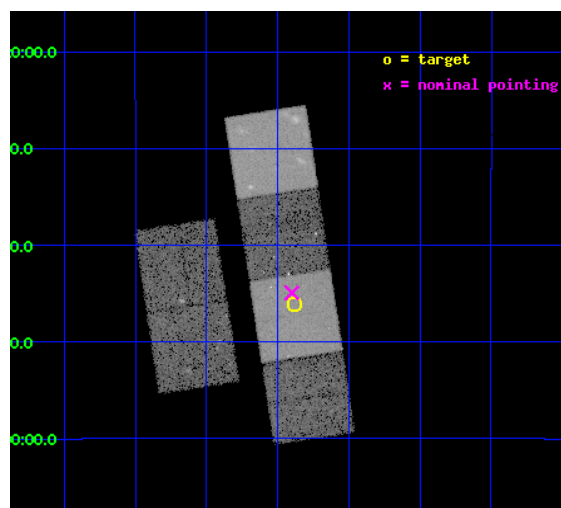
L2 Processing Date : Sep 2 2012

## 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

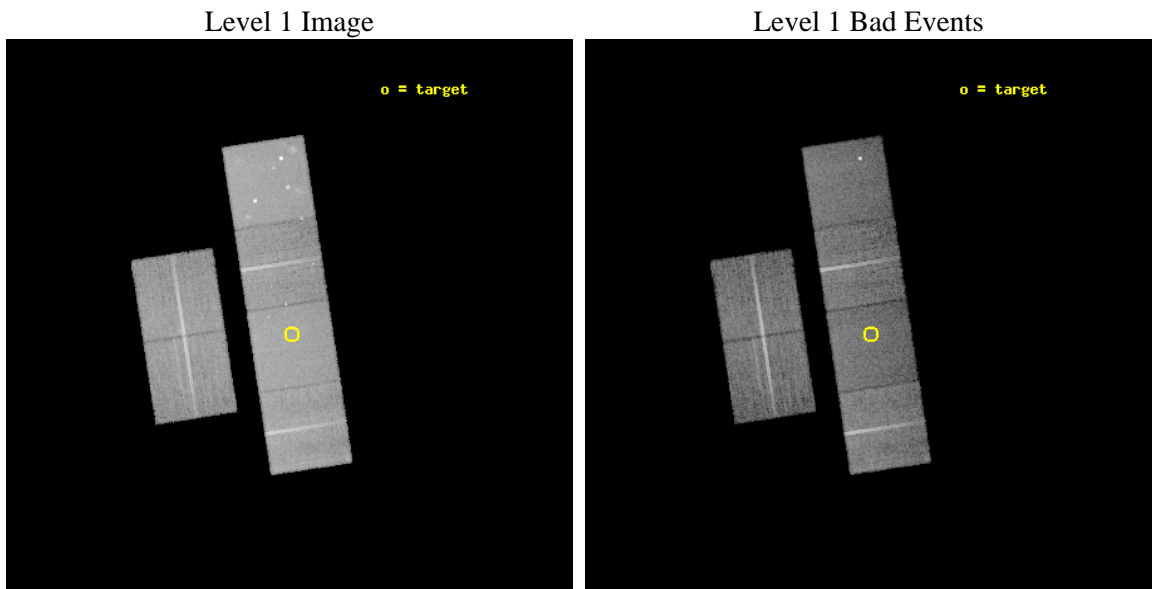
seq_num	200019	Sequence number
obs_id	21	Observation id
title	YOUNG STARS AND OUTFLOWS IN LYNDS 1641	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HH 1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.095	Observer's specified target RA [deg]
dec_targ	-6.769167	Observer's specified target Dec [deg]
ra_nom	84.099998915675	Nominal RA [deg]
dec_nom	-6.7487886562687	Nominal Dec [deg]
roll_nom	81.312927348983	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19756.800018385	Sum of GTIs [s]
livetime	19506.627520436	Livetime [s]
ontime2	19756.800018385	Sum of GTIs [s]
ontime3	19756.800018385	Sum of GTIs [s]
ontime5	19756.800018385	Sum of GTIs [s]
ontime6	19756.800018385	Sum of GTIs [s]
ontime7	19756.800018385	Sum of GTIs [s]
ontime8	19753.559058145	Sum of GTIs [s]
l2events	179835	Number of level 2 events



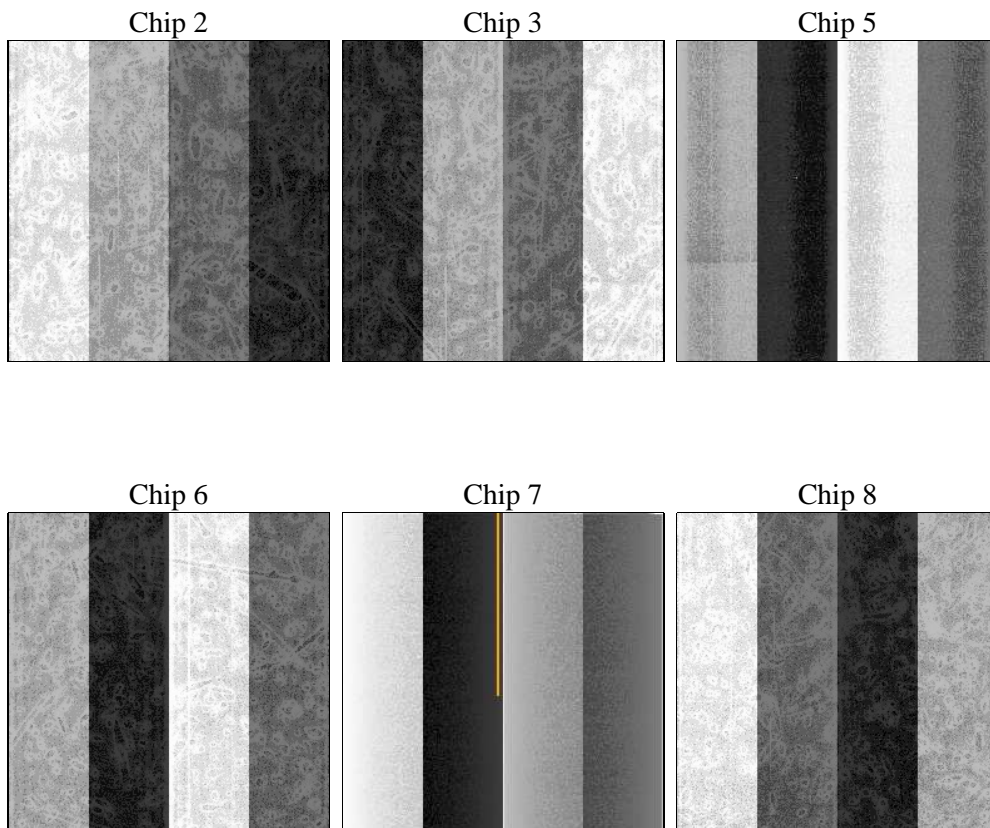
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19756.800018385	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	19756.800018385	Sum of GTIs [s]
date	2012-09-02T09:44:30	Date and time of file creation	ontime3	19756.800018385	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	19756.800018385	Sum of GTIs [s]
			ontime6	19756.800018385	Sum of GTIs [s]
			ontime7	19756.800018385	Sum of GTIs [s]
			ontime8	19753.559058145	Sum of GTIs [s]
			l1events	822004	Number of level 1 events

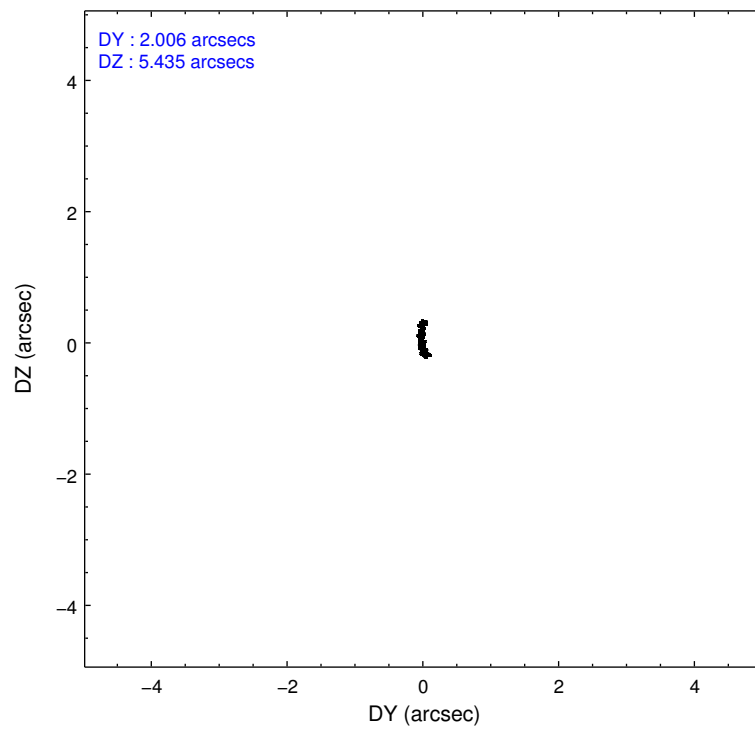
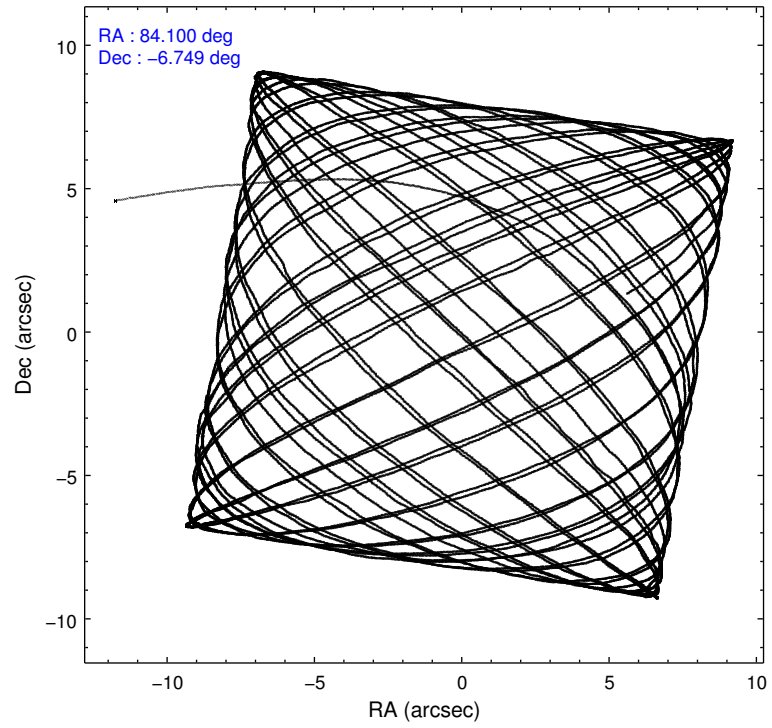
### 2.1.4 Events

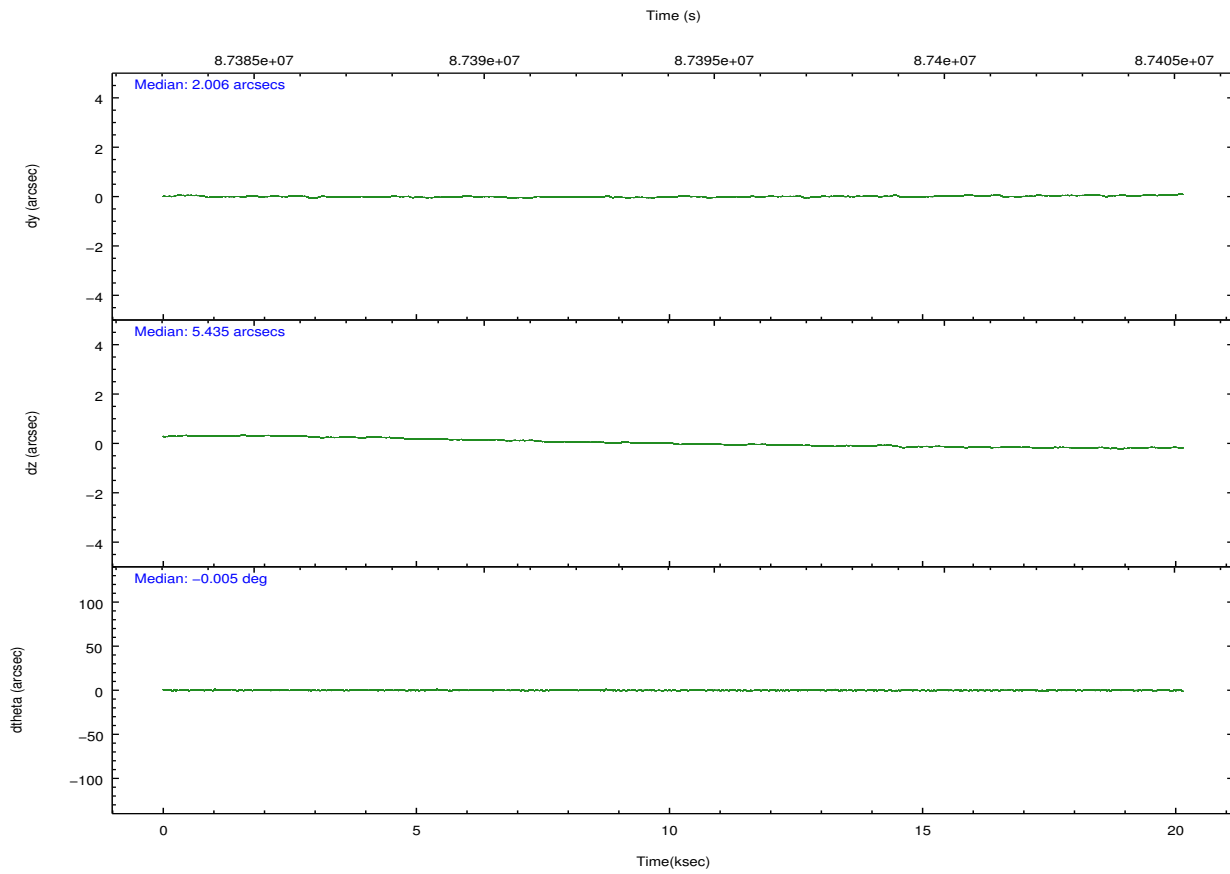
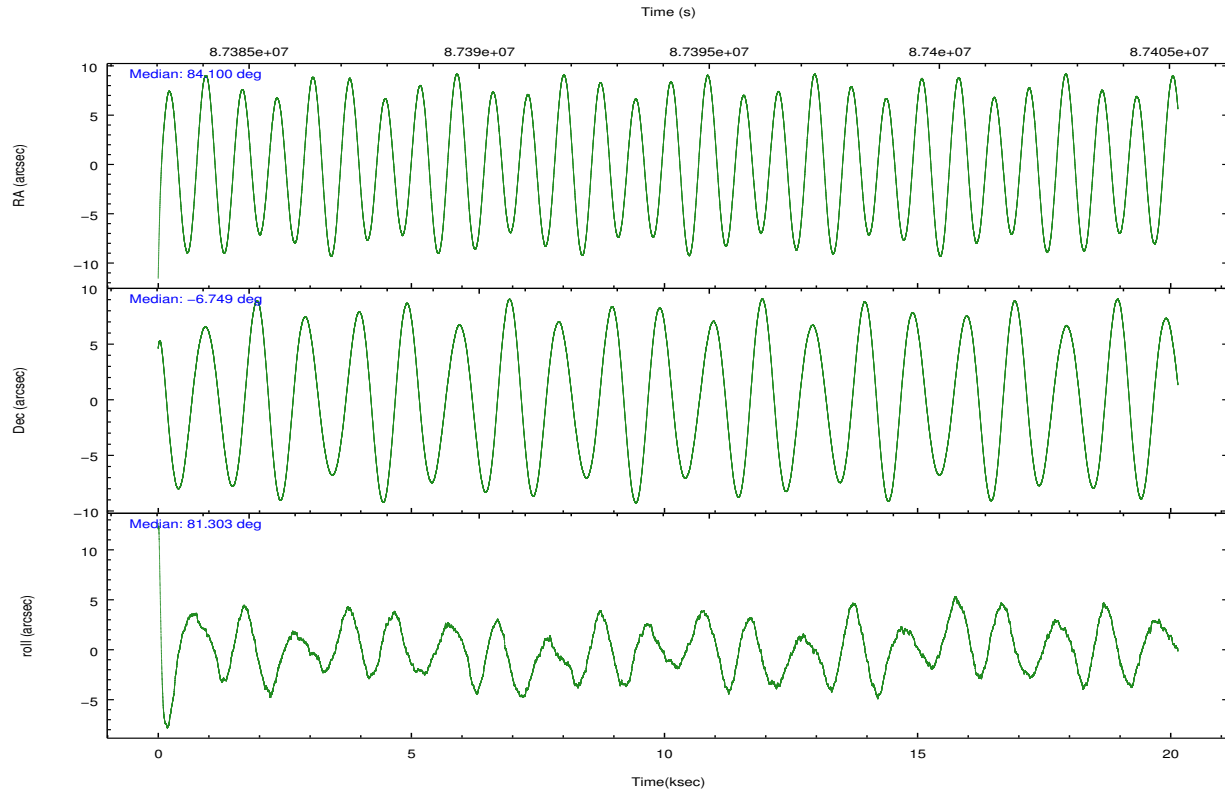
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	119731	114356	170450	118809	147801	150857	grade 0 events	5479	5658	12887	6582	6144	8616
rejected events	106737	101437	88792	103972	85740	123288		4%	4%	7%	5%	4%	5%
rejected %	89%	88%	52%	87%	58%	81%	grade 1 events	53	71	185	66	125	88
								0%	0%	0%	0%	0%	0%
							grade 2 events	2739	2489	23421	2820	12258	5824
								2%	2%	13%	2%	8%	3%
							grade 3 events	1318	1273	3599	1469	5686	3012
								1%	1%	2%	1%	3%	1%
							grade 4 events	1212	1243	3396	1365	5618	2813
								1%	1%	1%	1%	3%	1%
							grade 5 events	4021	4266	12812	4789	13938	6075
								3%	3%	7%	4%	9%	4%
							grade 6 events	2249	2265	38371	2605	32365	7307
								1%	1%	22%	2%	21%	4%
							grade 7 events	102660	97091	75779	99113	71667	117122
								85%	84%	44%	83%	48%	77%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	84.110180	84.09999891567496	Subarray requested	NONE	NONE
[deg] Pointing Dec	-6.774205	-6.748788656268658	Alternating exposures requested	N	N
[deg] Pointing Roll	81.157481	81.31292734898304	[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)	87384174.184000	87383104.148137			
Observation start date	2000-10-08T09:21:50	2000-10-08T09:05:04			
[s] Observation end time (MET)	87404174.184000	87404519.47394501			
Observation end date	2000-10-08T14:55:10	2000-10-08T15:01:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



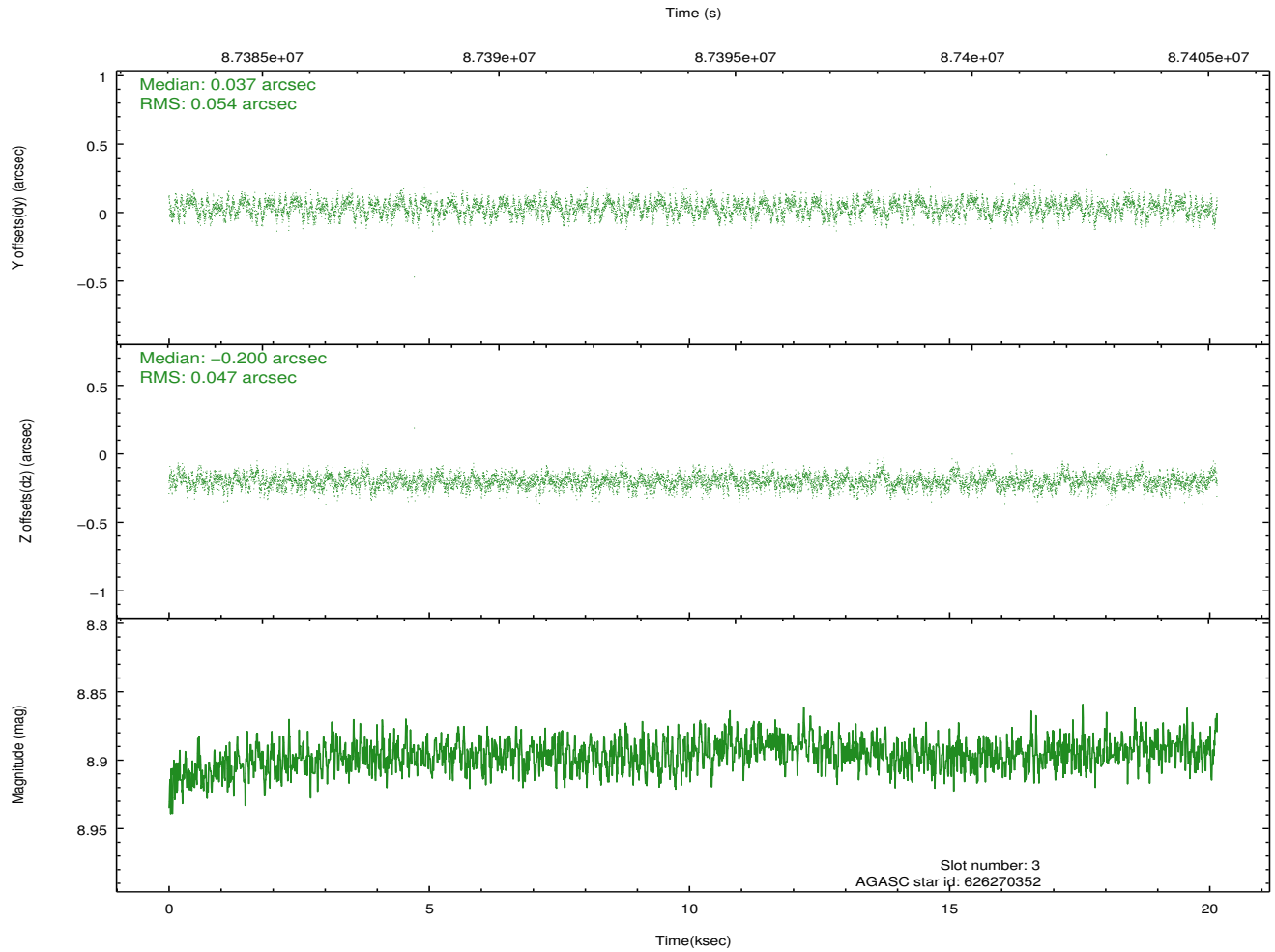
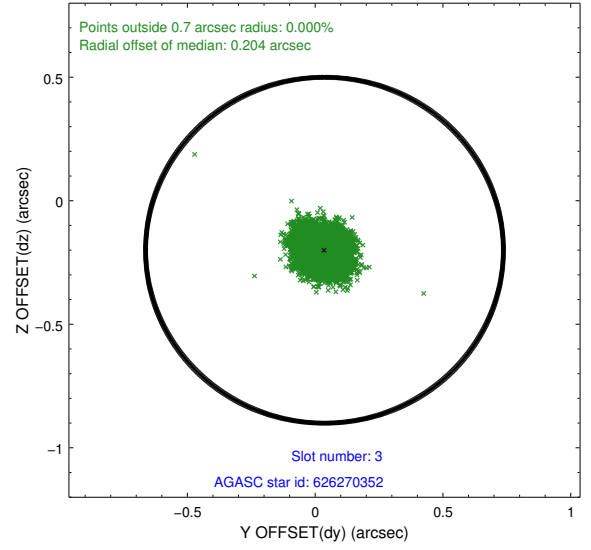
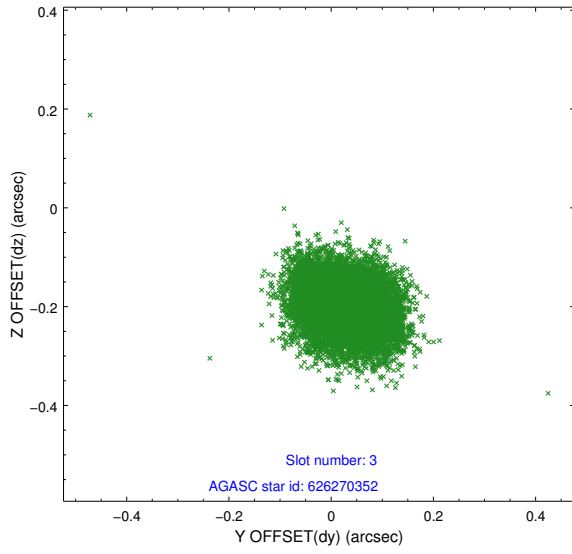


### Slot Statistics

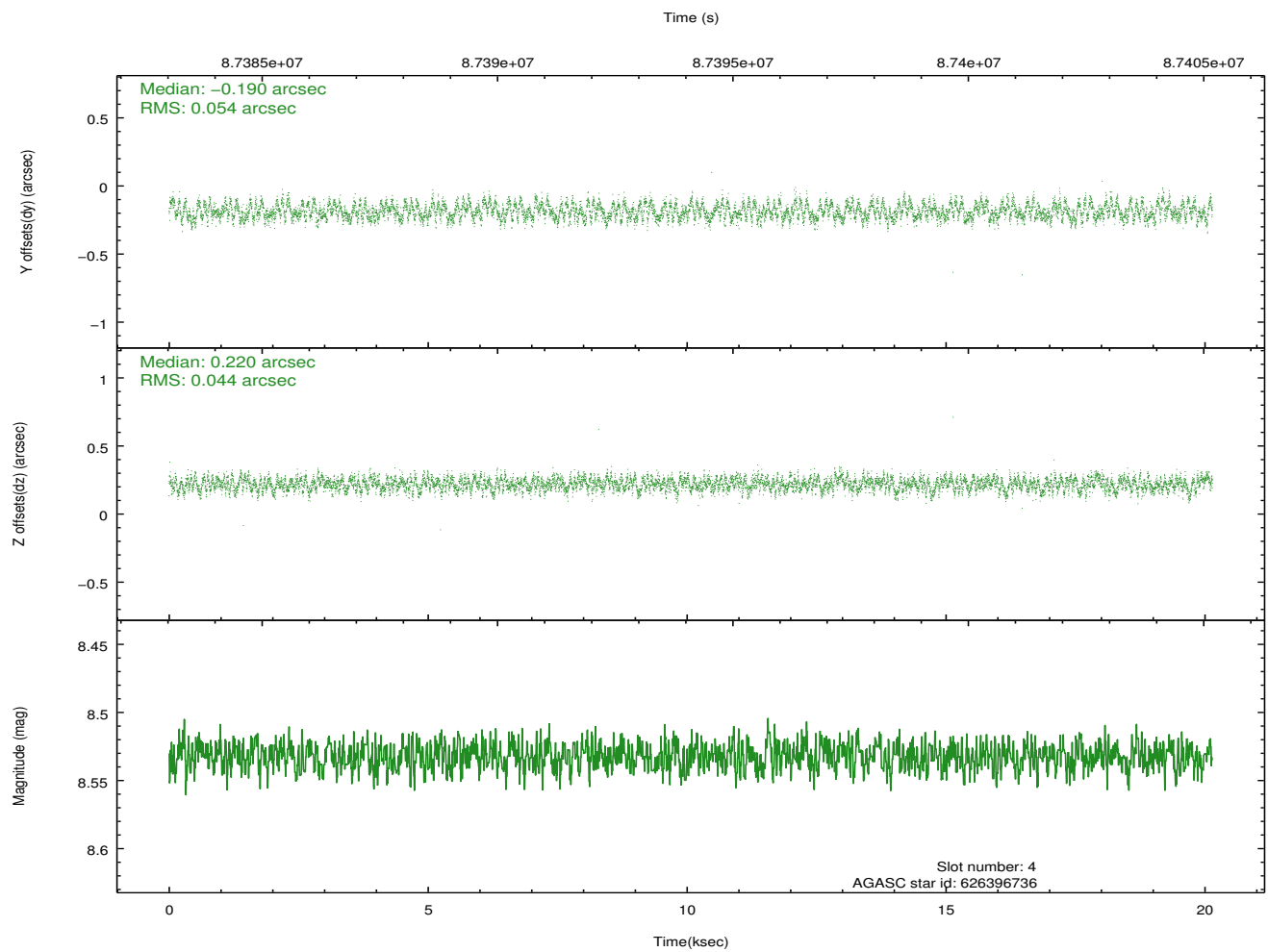
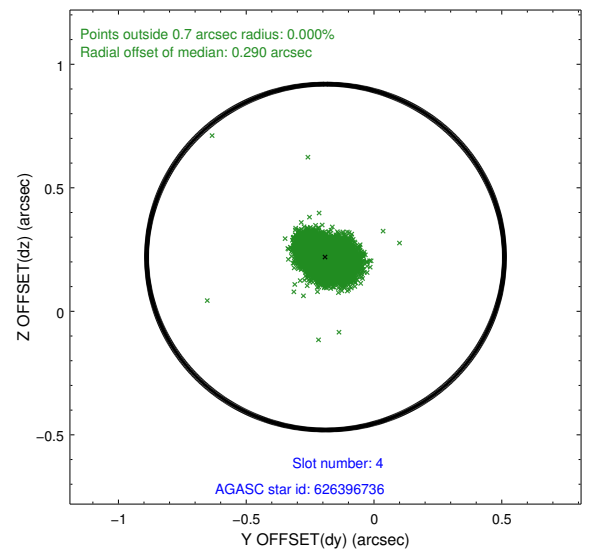
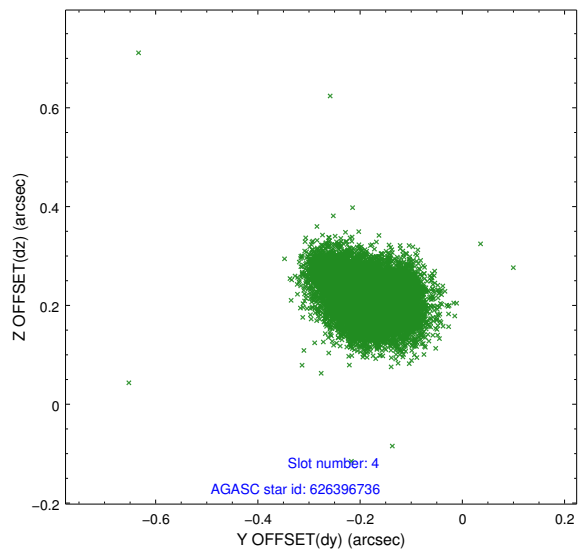
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	4914	-0.048	-0.004	0.007	0.011	0.000000	0.000000	-754.64	-1726.55
1	FID	ACIS-S-4	7.20	4913	-0.002	0.024	0.005	0.010	0.000000	0.000000	2158.57	181.82
2	FID	ACIS-S-5	7.24	4913	0.019	-0.012	0.007	0.011	0.000000	0.000000	-1807.21	175.59
3	GUIDE	626270352	8.90	9821	0.037	-0.200	0.077	0.122	83.522796	-6.838095	-551.54	2039.46
4	GUIDE	626396736	8.53	9825	-0.190	0.220	0.074	0.116	84.507196	-6.393921	1570.55	-1191.74
5	GUIDE	626398472	8.77	9803	0.095	0.050	0.065	0.106	84.461806	-6.722087	378.73	-1212.71
6	GUIDE	626394112	9.44	9826	0.072	0.229	0.110	0.169	84.642698	-7.400609	-1936.59	-2224.92
7	GUIDE	626268800	9.90	9823	-0.012	-0.296	0.150	0.243	83.467166	-6.615641	208.53	2359.86

## 2.4 Star Slots

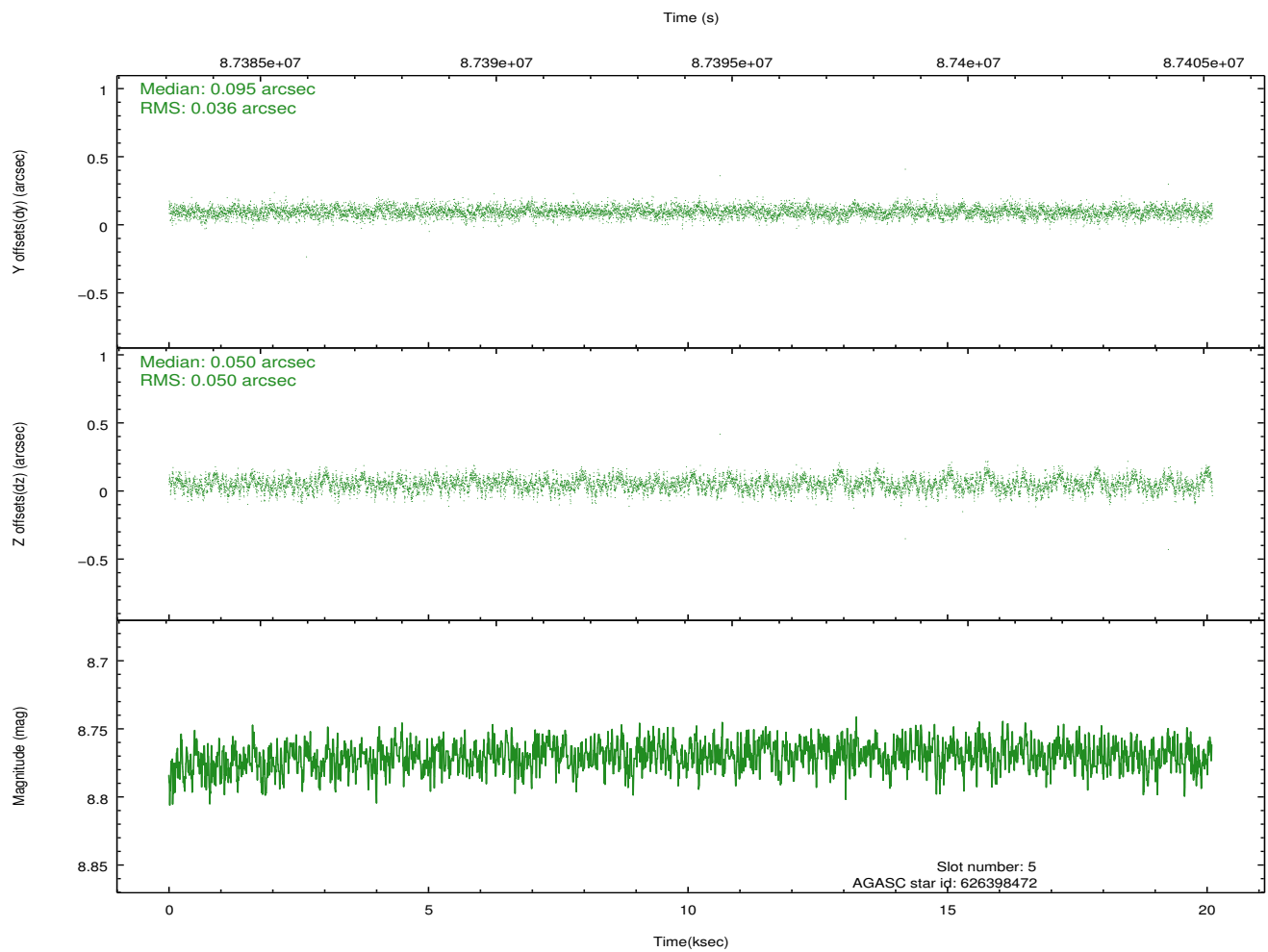
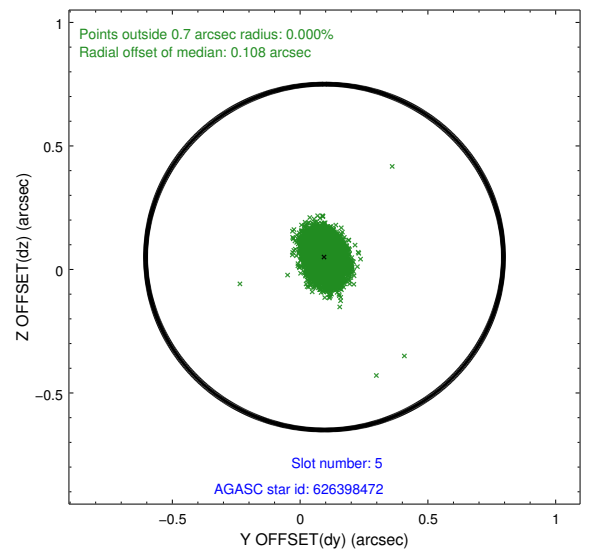
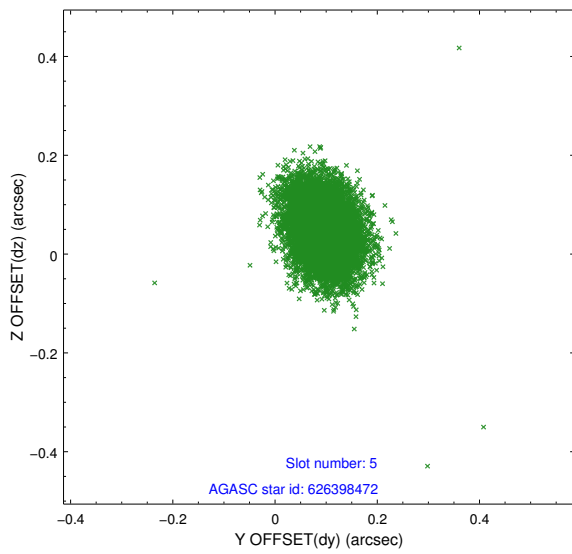
### 2.4.1 Slot 3



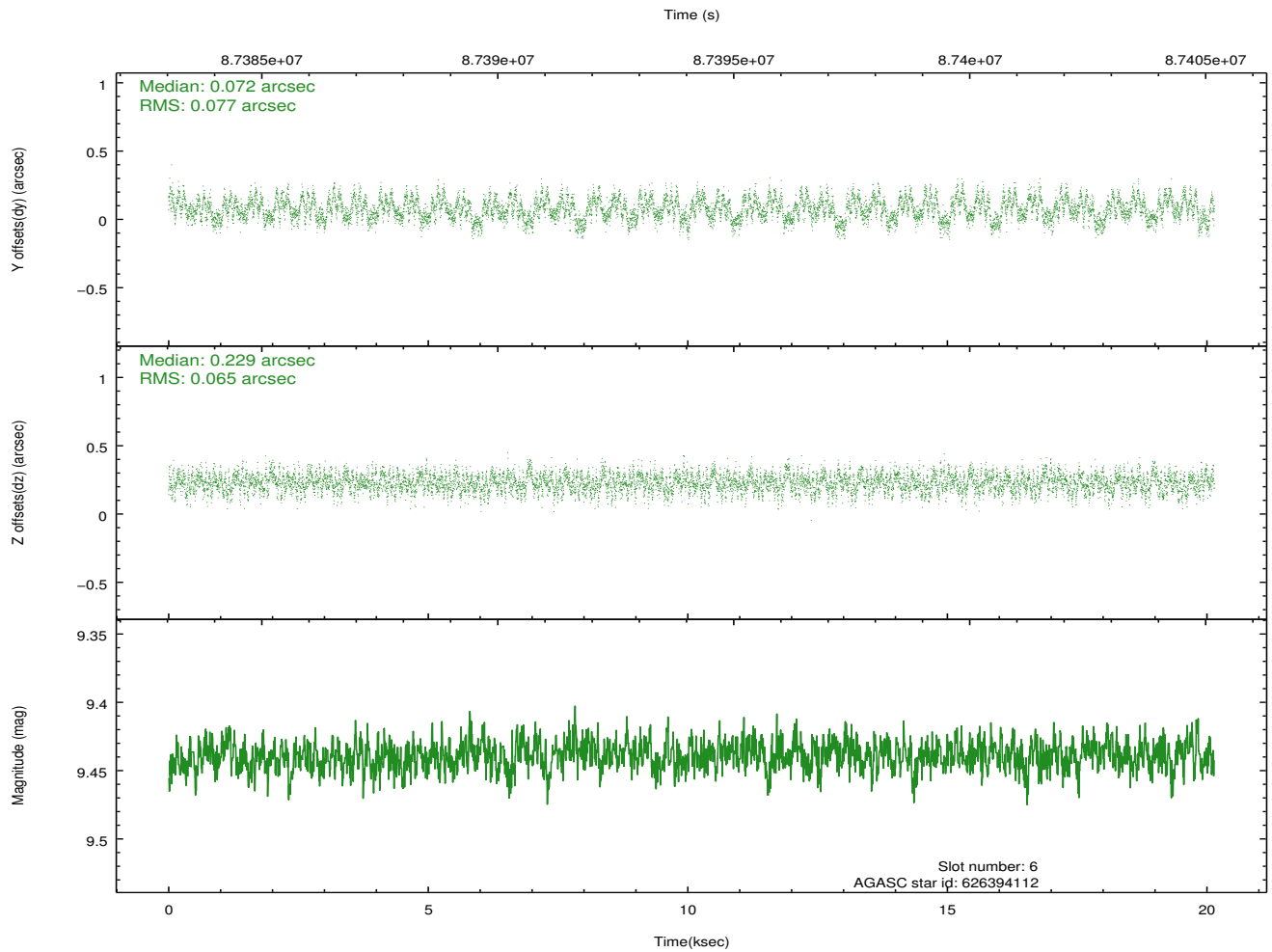
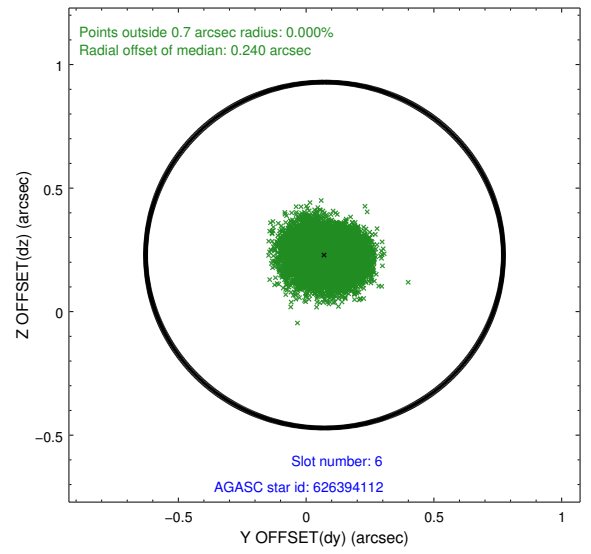
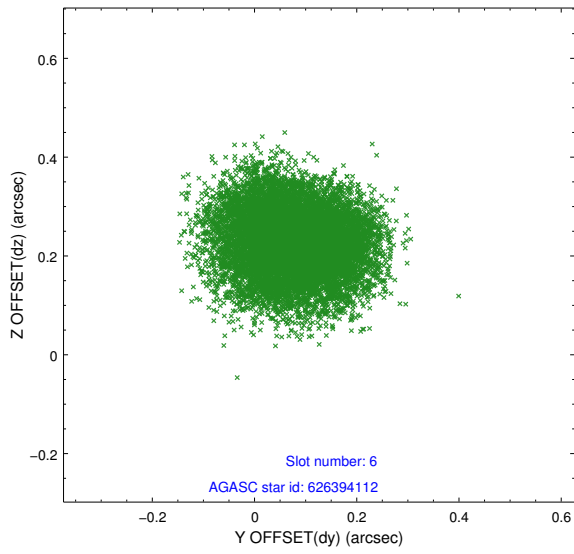
## 2.4.2 Slot 4



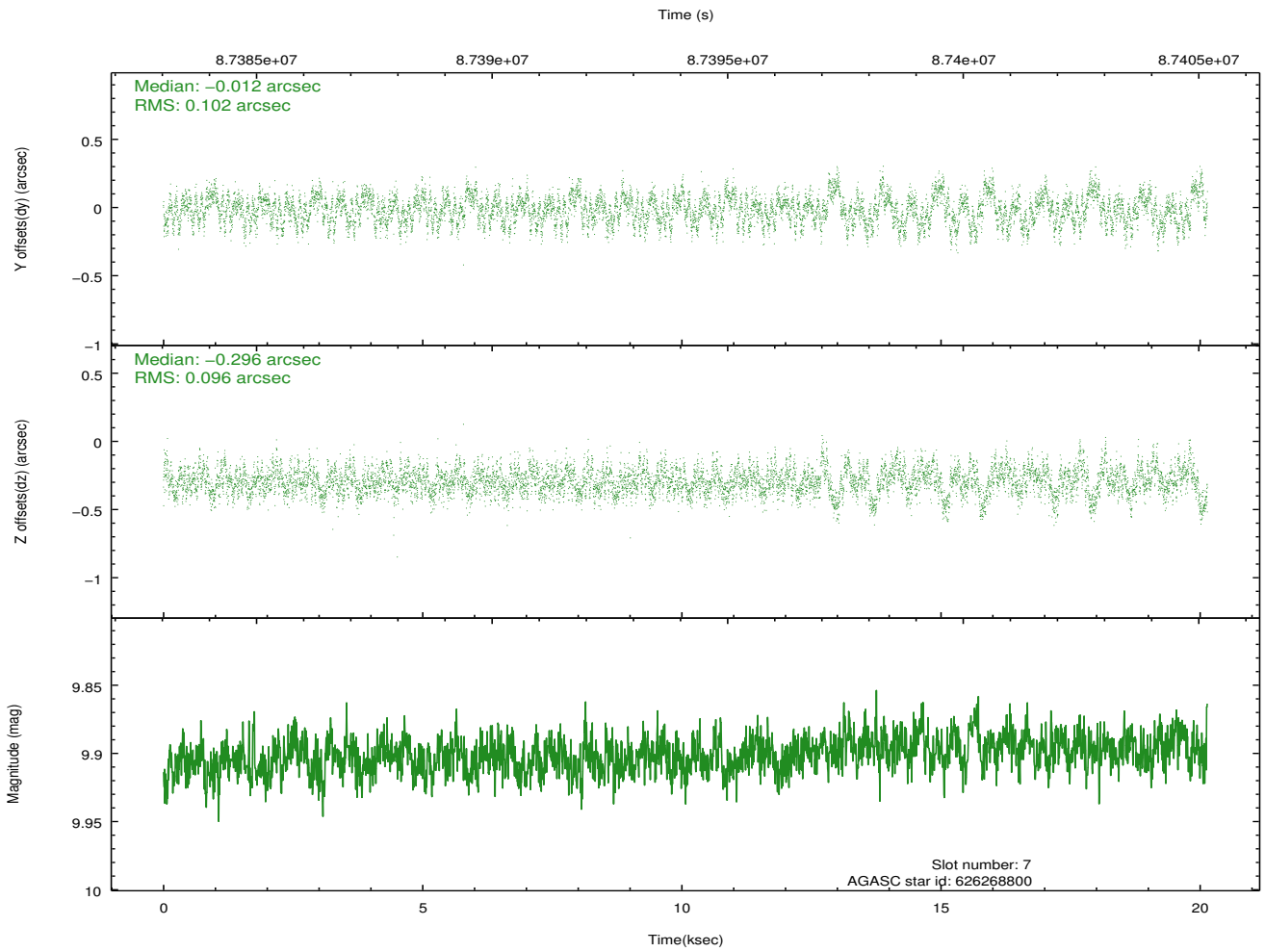
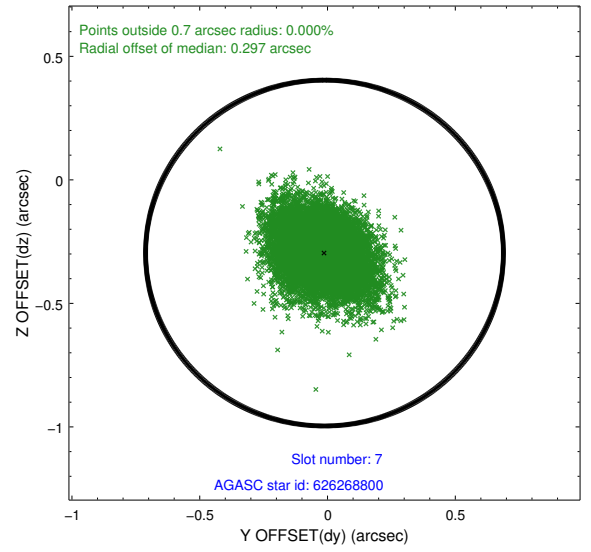
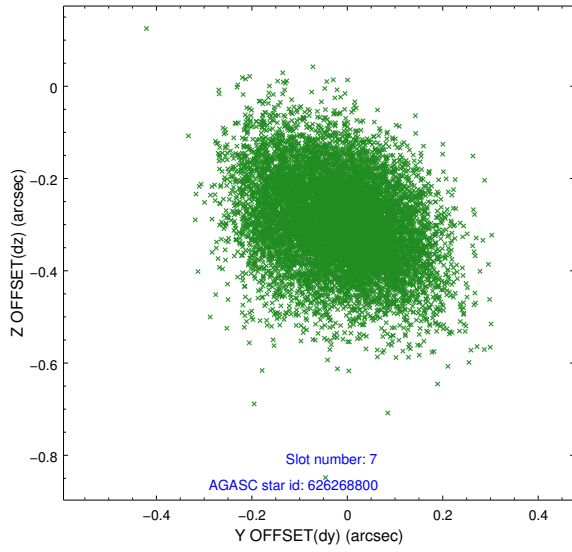
### 2.4.3 Slot 5



### 2.4.4 Slot 6

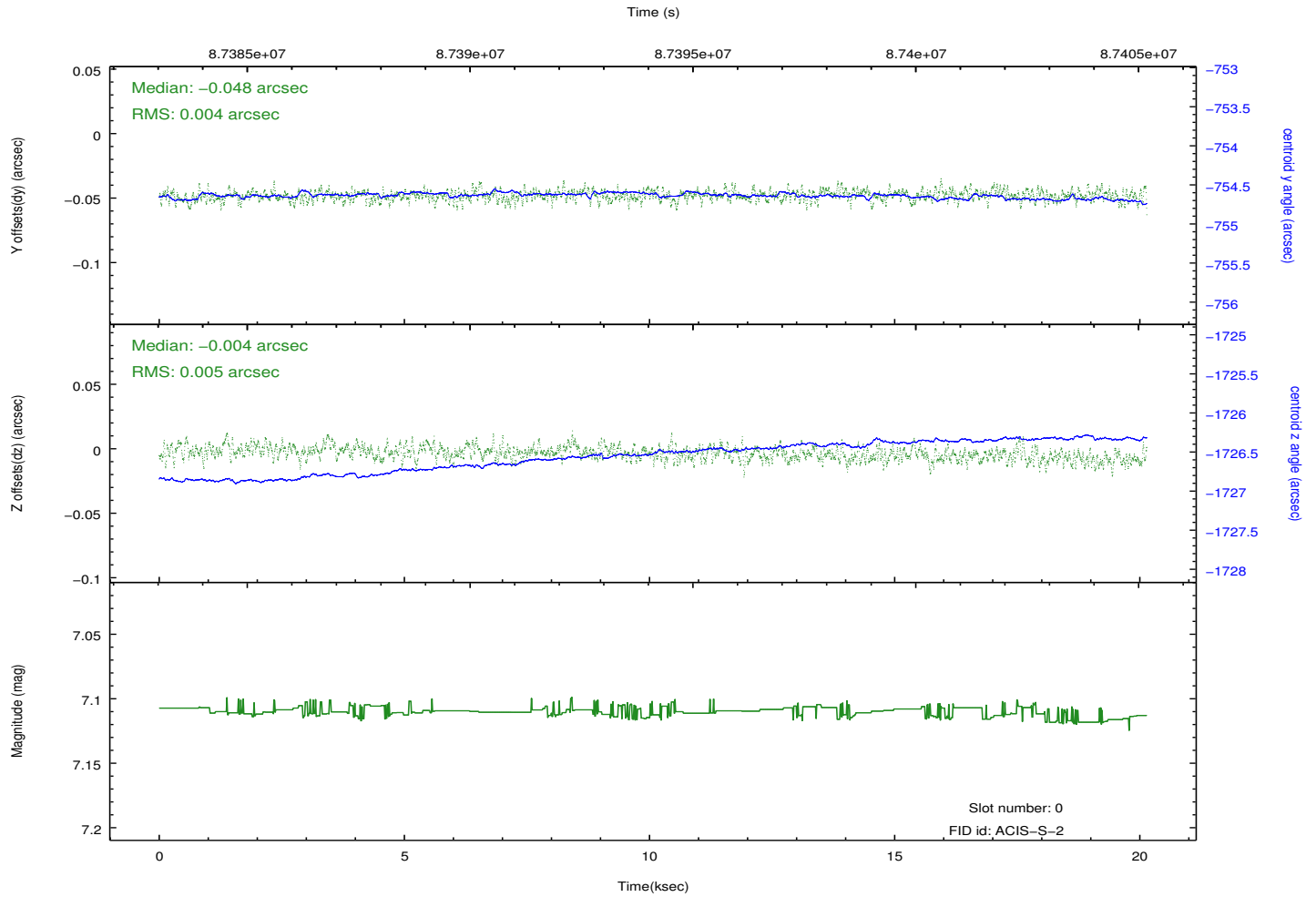
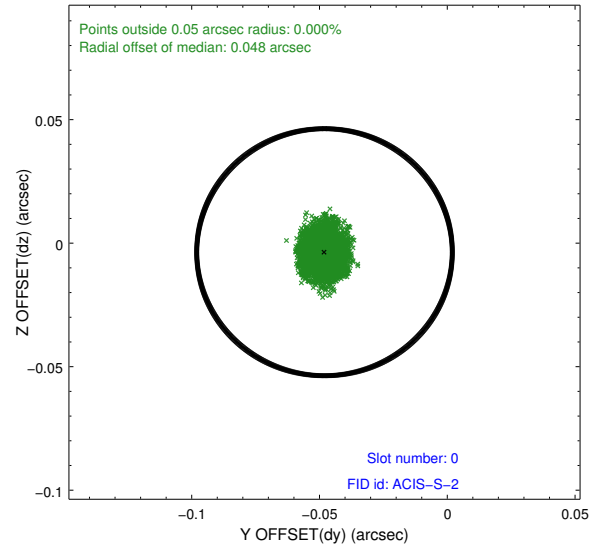
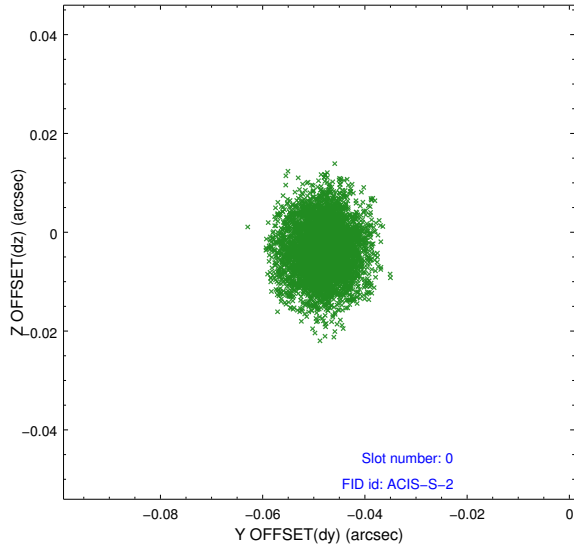


### 2.4.5 Slot 7

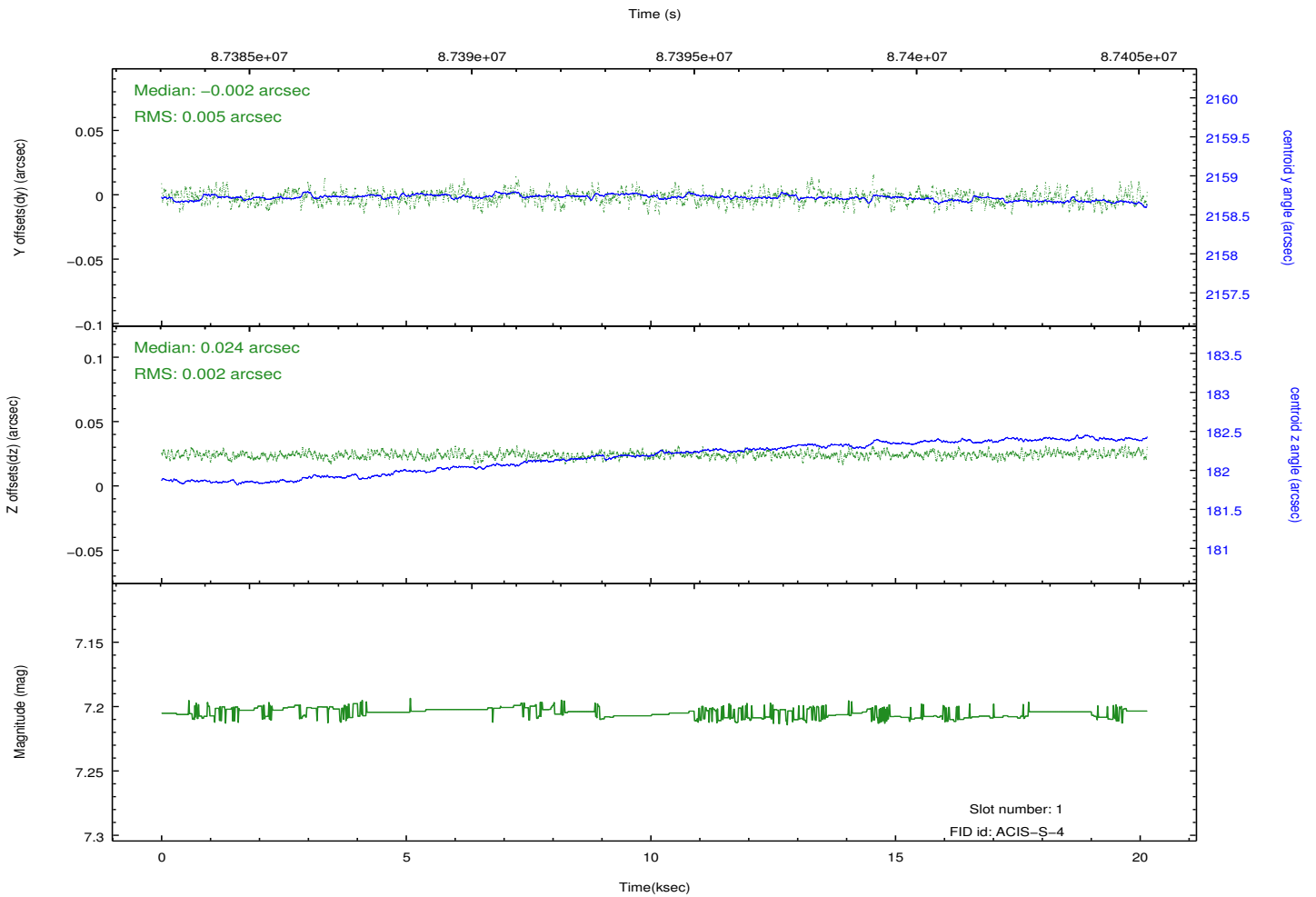
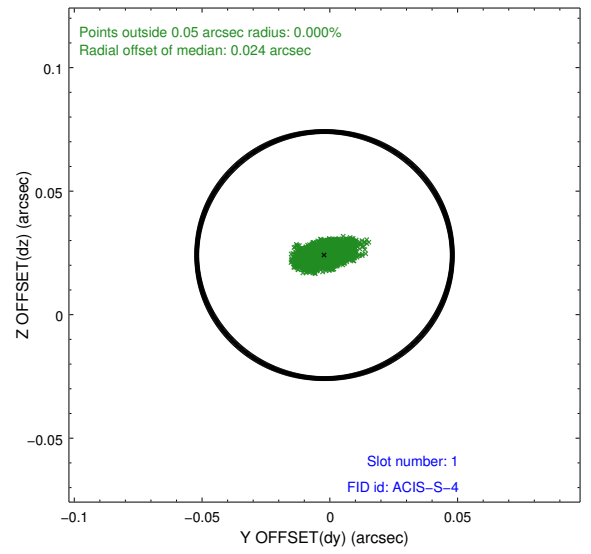
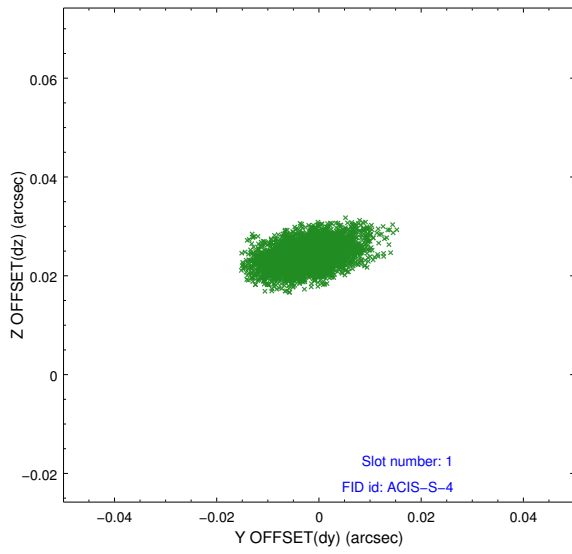


## 2.5 FID Slots

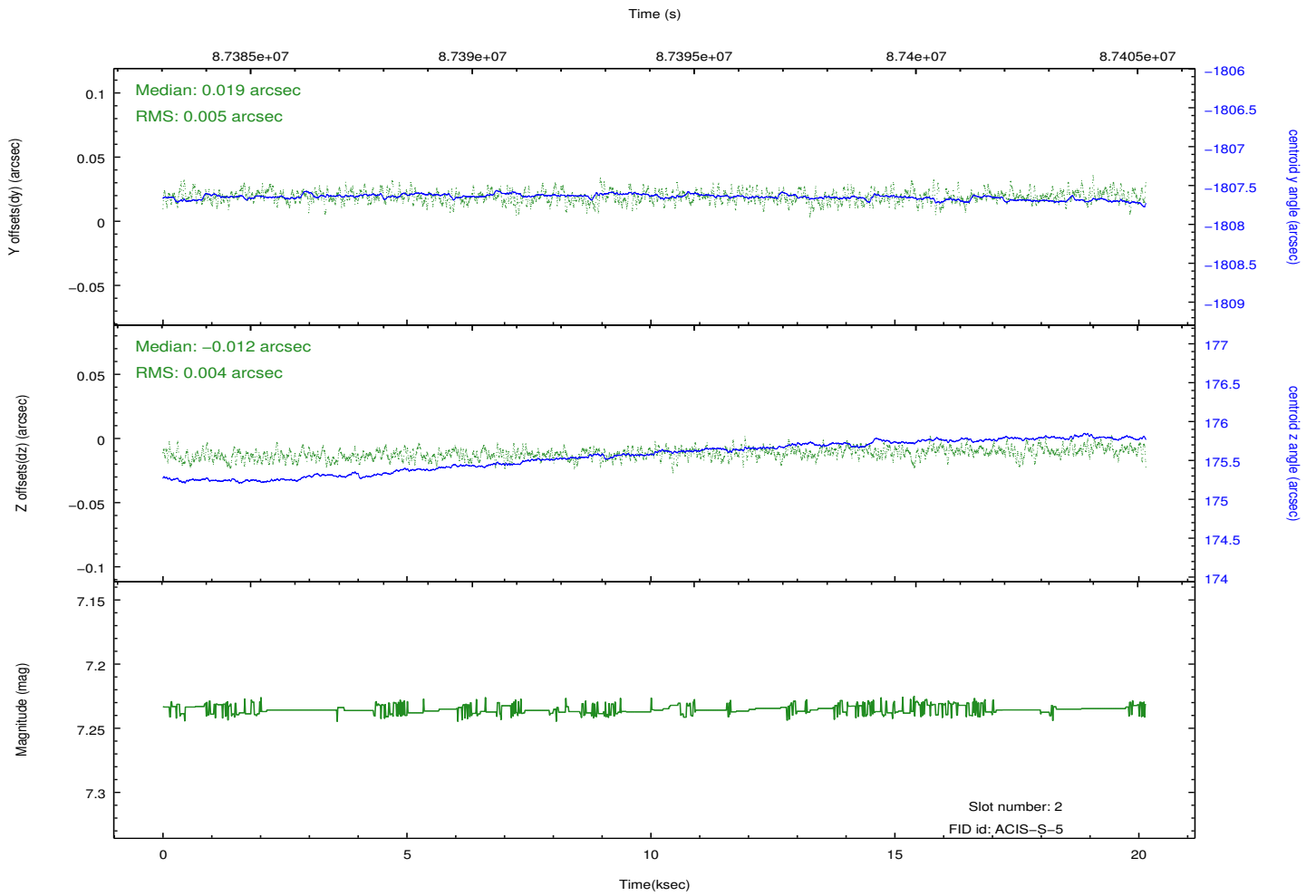
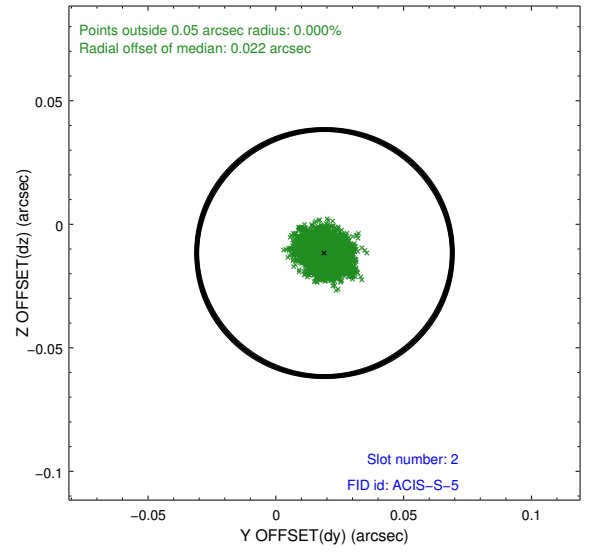
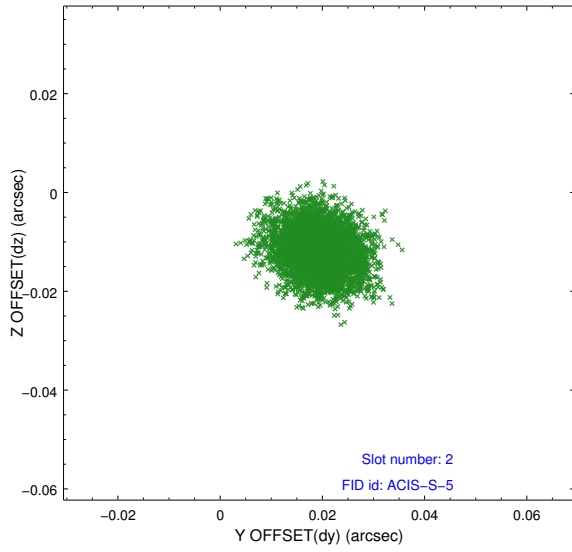
### 2.5.1 Slot 0



## 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)	2012.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.76

## A.2 Comments