

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3216 - L2 Version 3  
Chandra X-Ray Center

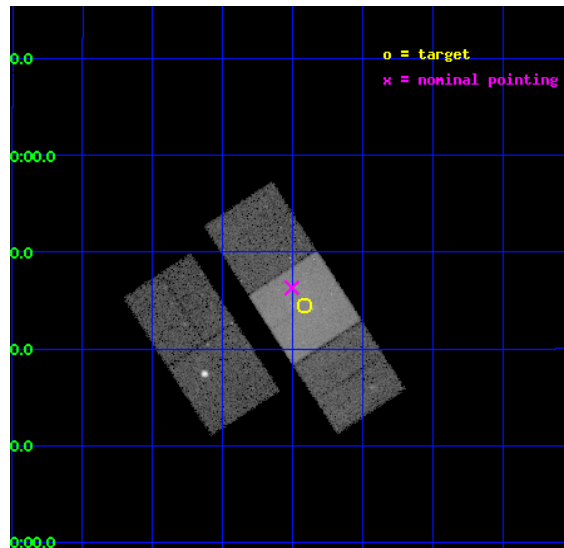
L2 Processing Date : Oct 19 2012

## 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

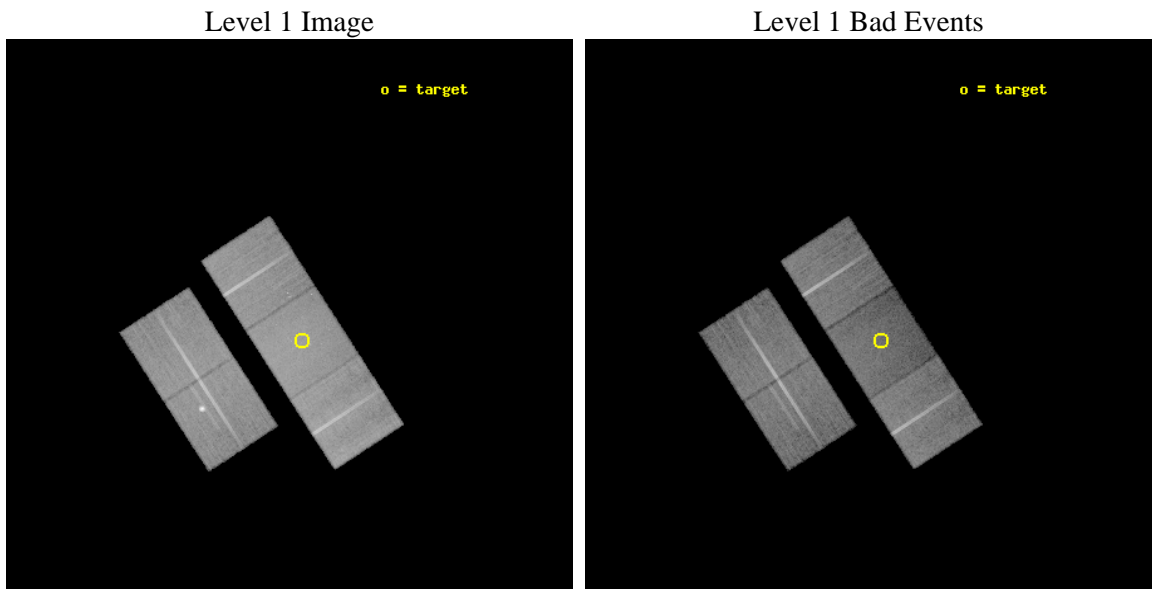
seq_num	800216	Sequence number
obs_id	3216	Observation id
title	EARLY-TYPE GALAXIES IN GROUPS: STRIPPING AND STIFLING	Proposal tit
observer	Prof Trevor Ponman	Principal investigator
object	NGC 5171	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.354167	Observer's specified target RA [deg]
dec_targ	11.741667	Observer's specified target Dec [deg]
ra_nom	202.37645946168	Nominal RA [deg]
dec_nom	11.772019713517	Nominal Dec [deg]
roll_nom	57.01611133887	Nominal Roll [deg]
revision	3	Processing version of data
ontime	35132.29993242	Sum of GTIs [s]
livetime	34673.27056978	Livetime [s]
ontime2	35132.29993242	Sum of GTIs [s]
ontime3	35129.15896216	Sum of GTIs [s]
ontime6	35126.018001944	Sum of GTIs [s]
ontime7	35132.29993242	Sum of GTIs [s]
ontime8	35126.017972022	Sum of GTIs [s]
l2events	178420	Number of level 2 events



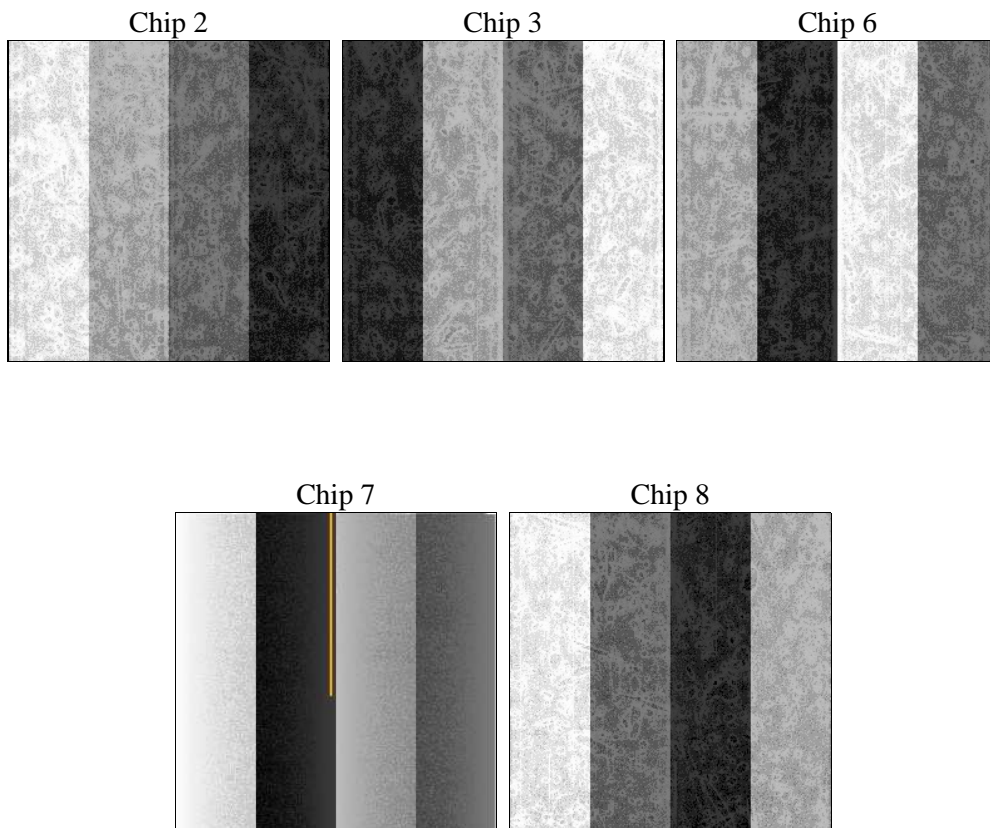
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	35132.29993242	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	35132.29993242	Sum of GTIs [s]
date	2012-10-19T05:49:29	Date and time of file creation	ontime3	35129.15896216	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	35126.018001944	Sum of GTIs [s]
			ontime7	35132.29993242	Sum of GTIs [s]
			ontime8	35126.017972022	Sum of GTIs [s]
			l1events	1009707	Number of level 1 events

### 2.1.4 Events

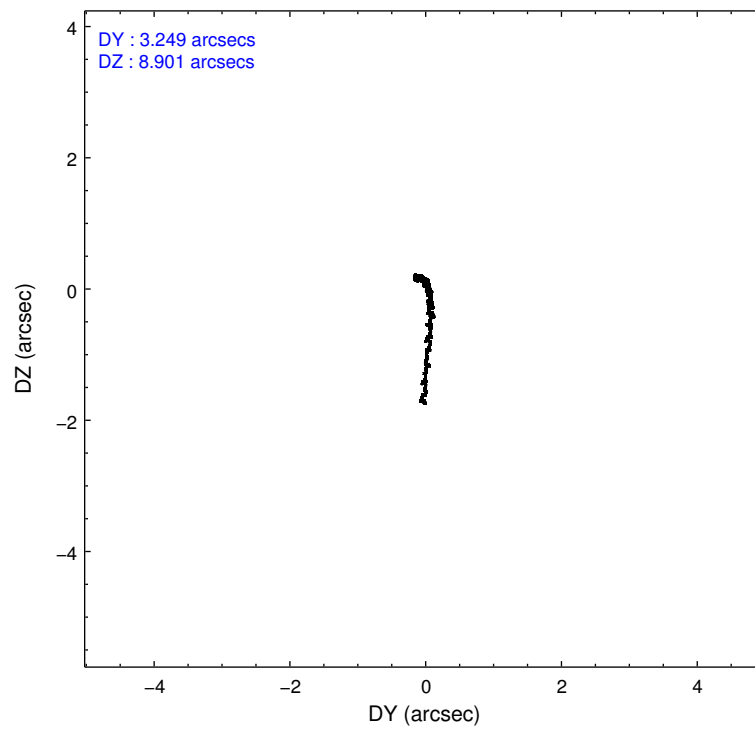
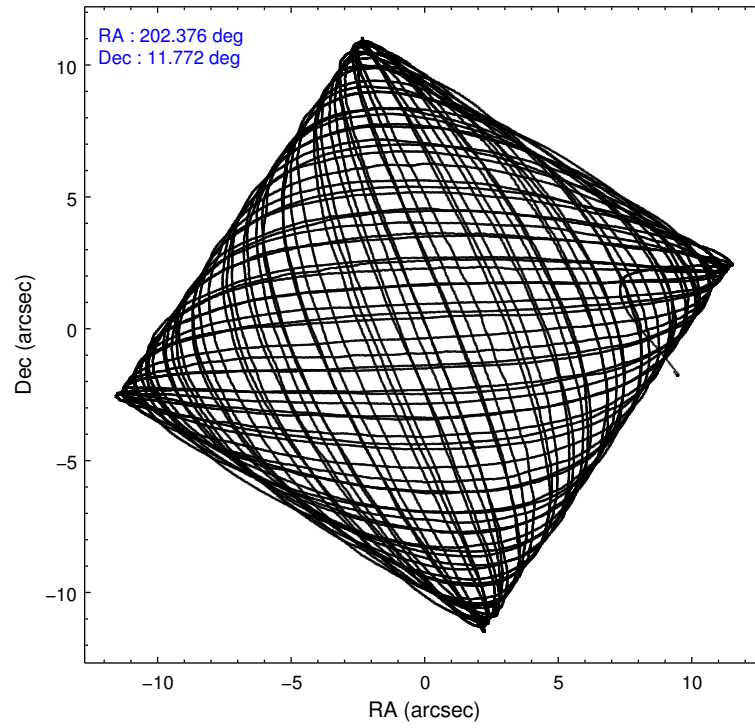
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	187290	191381	189847	209847	231342
rejected events	169104	164629	168200	108166	180205
rejected %	90%	86%	88%	51%	77%

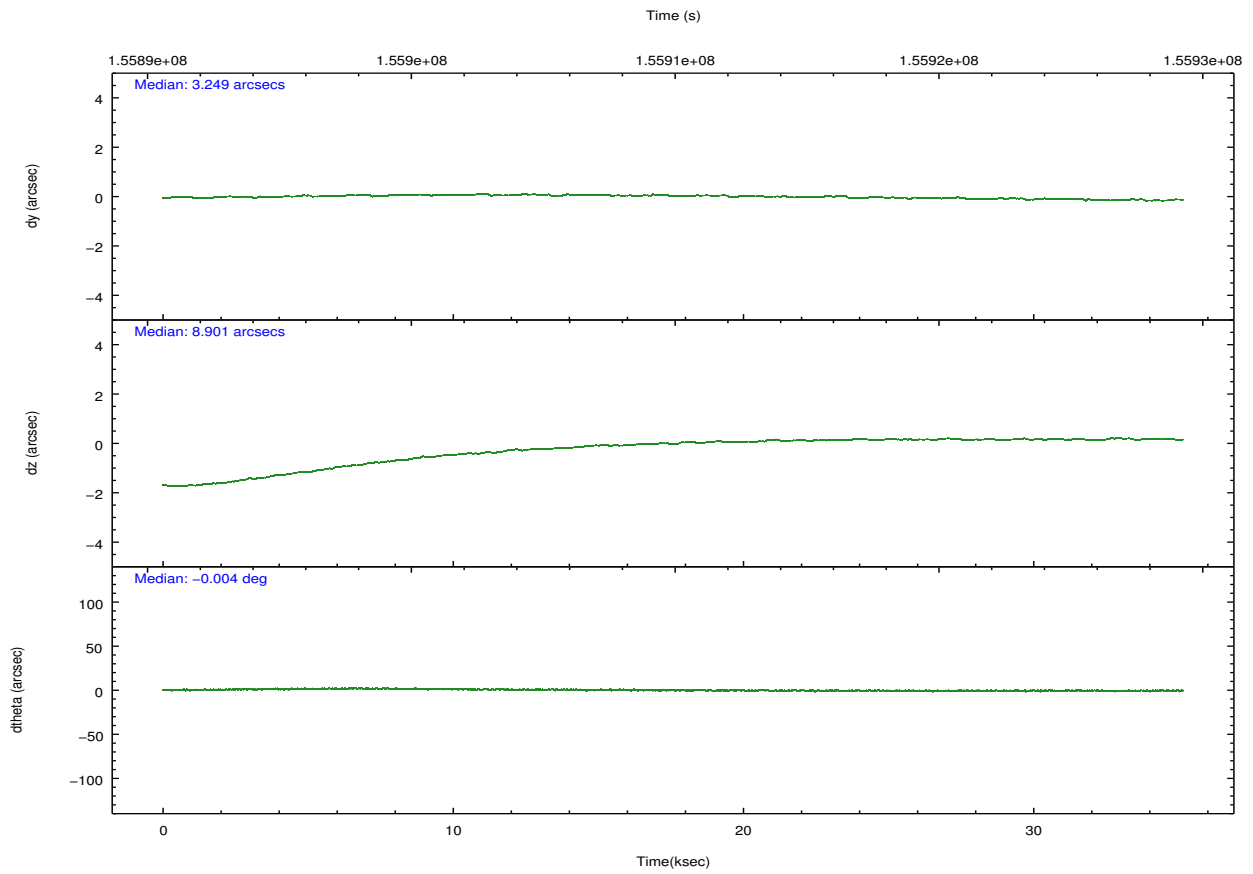
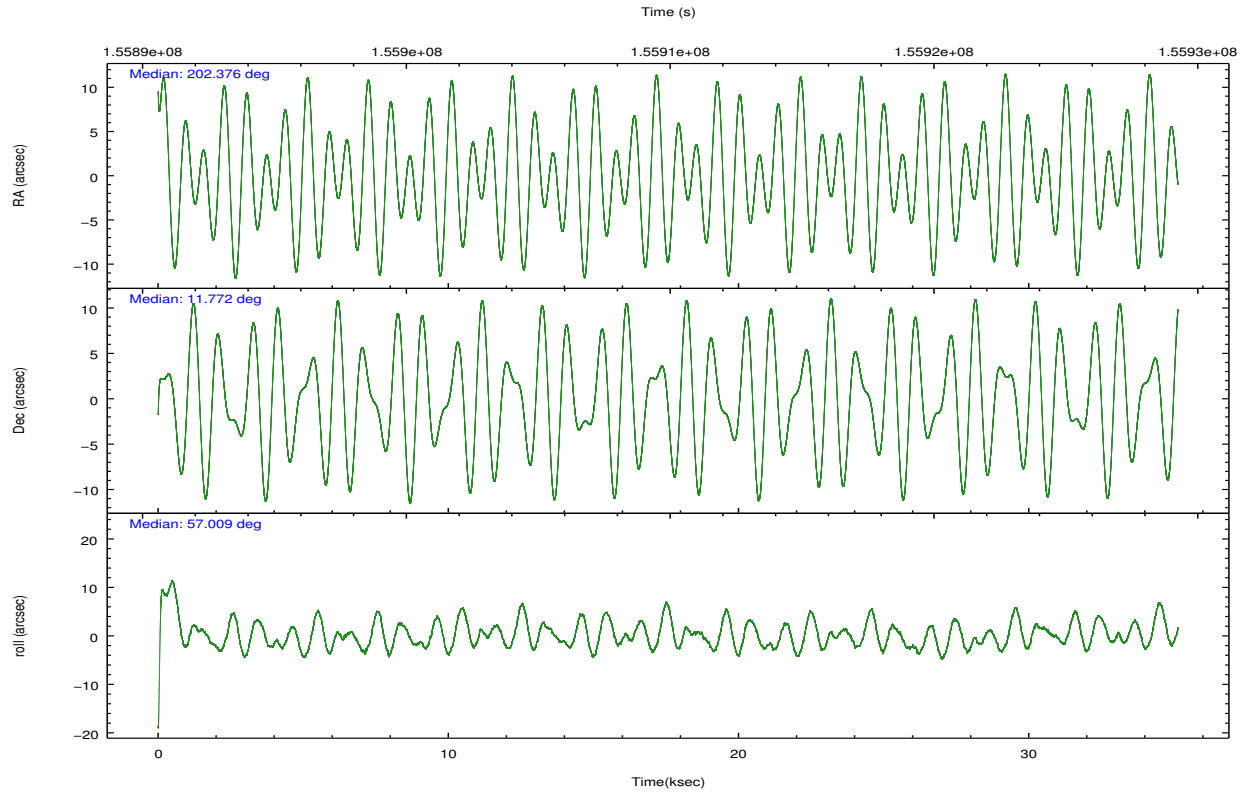
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7003	14634	9007	12836	17085
	3%	7%	4%	6%	7%
grade 1 events	86	148	90	160	164
	0%	0%	0%	0%	0%
grade 2 events	4043	4308	4125	21199	10744
	2%	2%	2%	10%	4%
grade 3 events	2048	2231	2269	10061	5470
	1%	1%	1%	4%	2%
grade 4 events	1983	2195	2213	9833	5024
	1%	1%	1%	4%	2%
grade 5 events	5741	7000	7217	20986	9904
	3%	3%	3%	10%	4%
grade 6 events	3150	3449	4060	47897	12926
	1%	1%	2%	22%	5%
grade 7 events	163236	157416	160866	86875	170025
	87%	82%	84%	41%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	202.375388	202.3764594616781	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.744827	11.77201971351704	Alternating exposures requested	N	N
[deg] Pointing Roll	56.859716	57.01611133887037	[s] Primary exposure time	0.000000	3.1
[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)	155892494.184000	155891493.63901			
Observation start date	2002-12-10T07:27:10	2002-12-10T07:11:33			
[s] Observation end time (MET)	155927494.184000	155928432.59055			
Observation end date	2002-12-10T17:10:30	2002-12-10T17:27:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



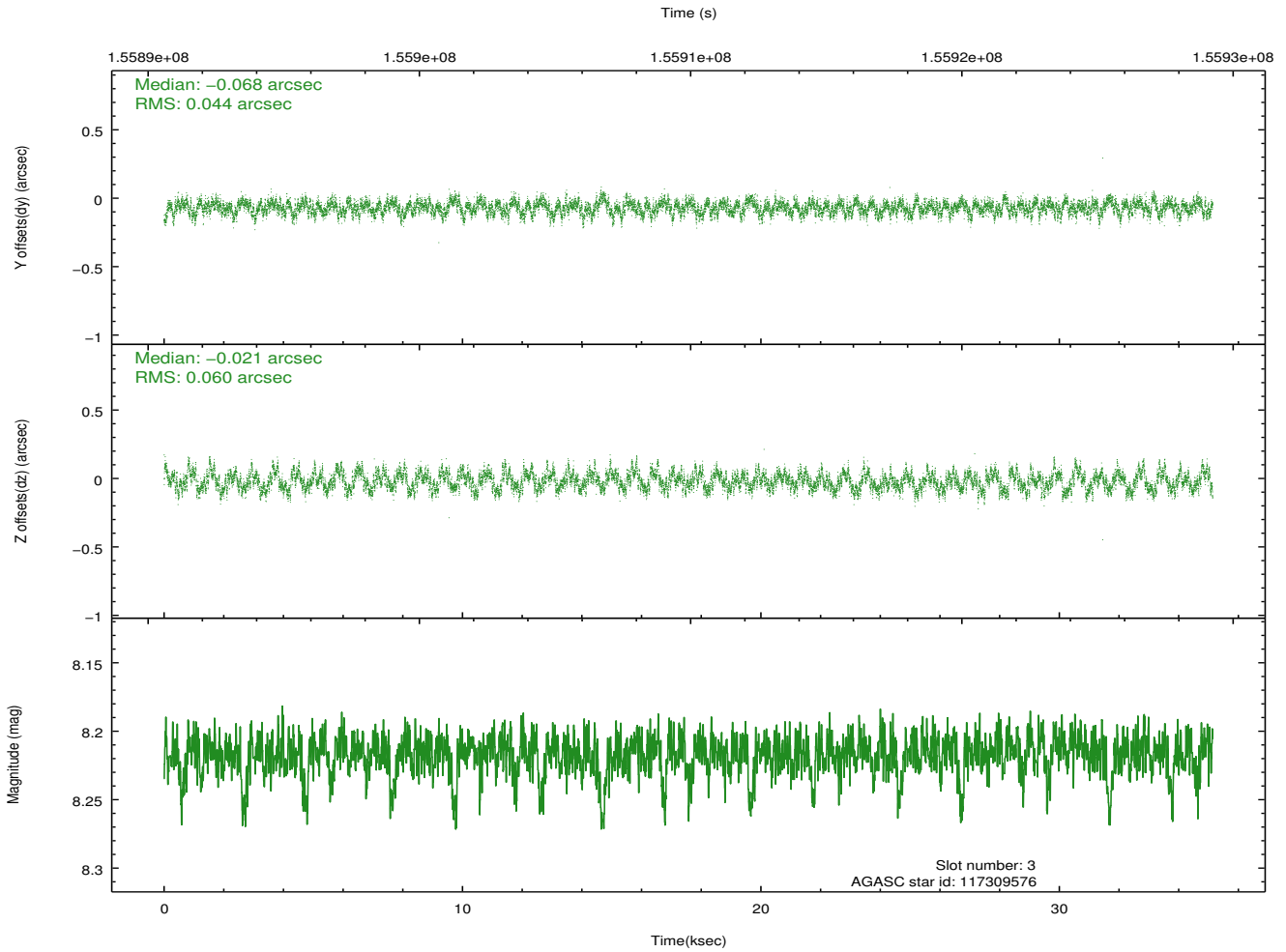
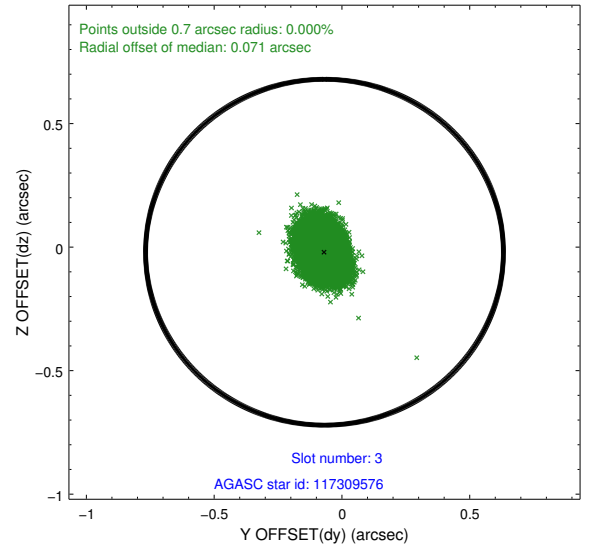
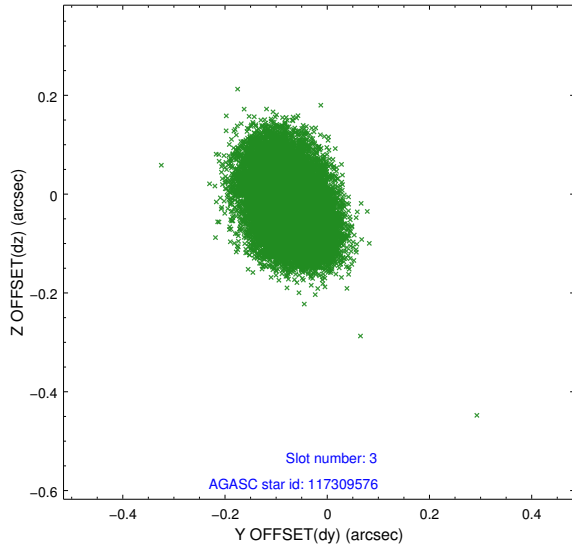


### Slot Statistics

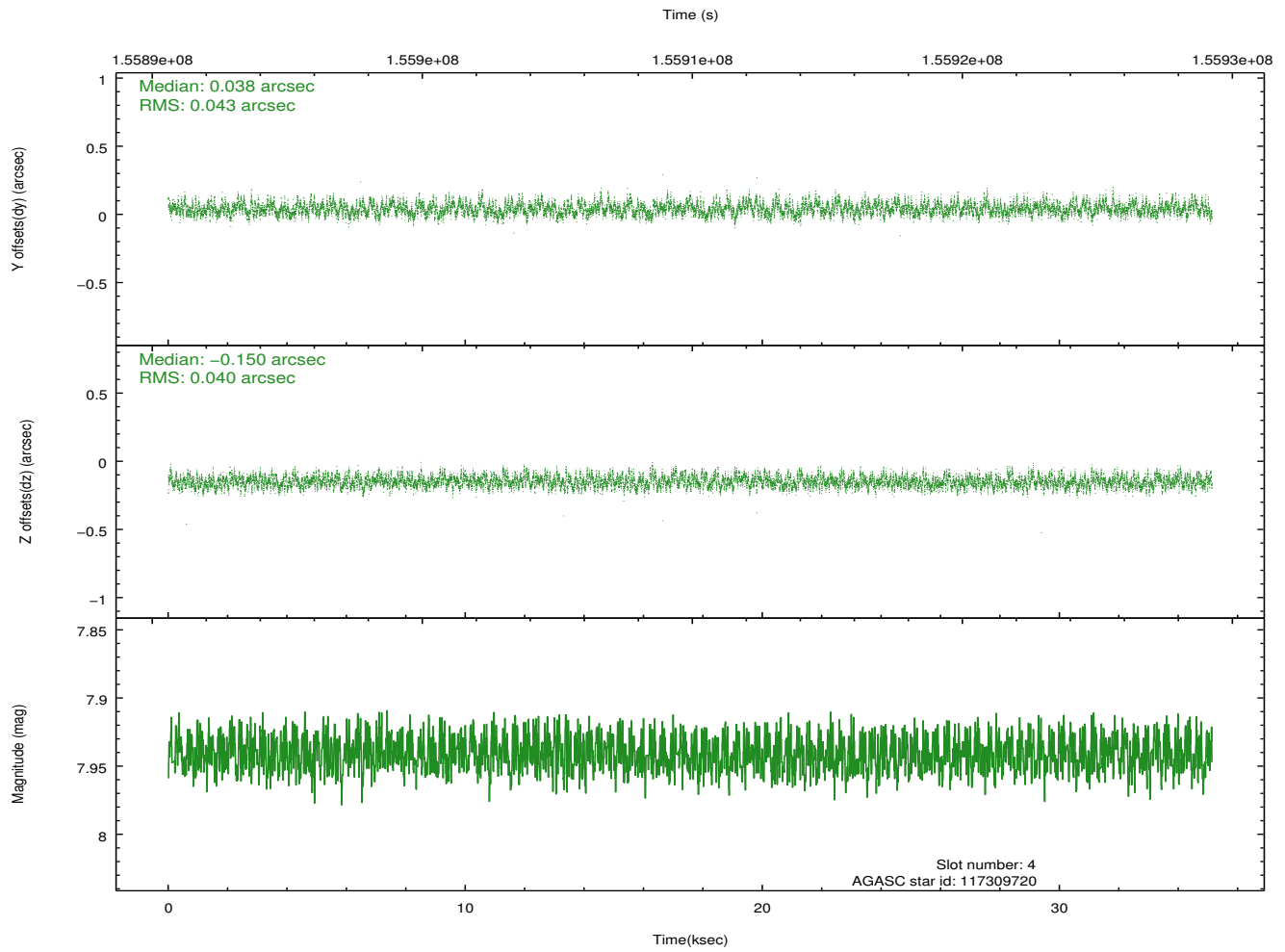
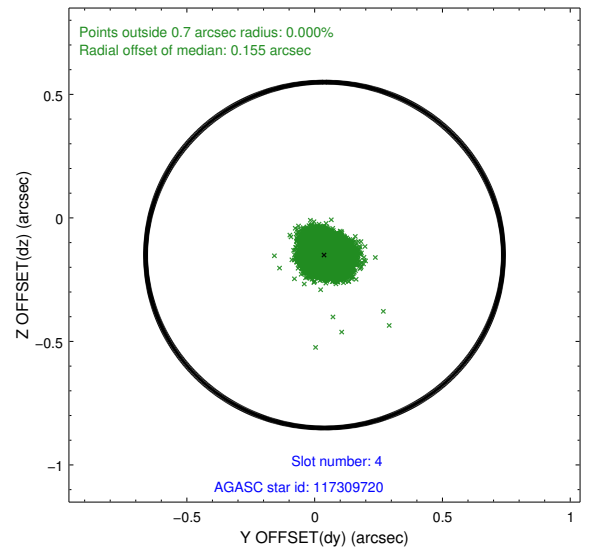
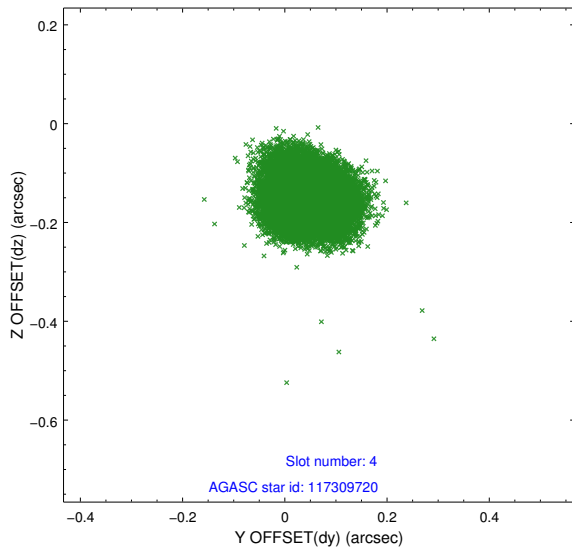
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	8570	-0.023	-0.014	0.011	0.017	0.000000	0.000000	-755.91	-1729.77
1	FID	ACIS-S-4	7.20	8571	0.018	0.015	0.008	0.014	0.000000	0.000000	2157.39	178.69
2	FID	ACIS-S-5	7.24	8570	-0.027	0.008	0.009	0.015	0.000000	0.000000	-1808.70	172.41
3	GUIDE	117309576	8.22	17137	-0.068	-0.021	0.080	0.128	202.250177	11.717904	-321.66	316.10
4	GUIDE	117309720	7.94	17138	0.038	-0.150	0.062	0.099	202.277704	11.639607	-504.74	81.21
5	GUIDE	117310040	8.44	17140	0.017	-0.314	0.086	0.138	201.745584	11.908554	-716.68	2180.36
6	GUIDE	117313072	9.41	17128	0.103	0.319	0.091	0.146	202.592703	10.931503	-2030.43	-2244.09
7	GUIDE	117315408	9.46	17126	-0.090	0.167	0.101	0.168	203.194012	11.868807	1954.86	-2168.98

## 2.4 Star Slots

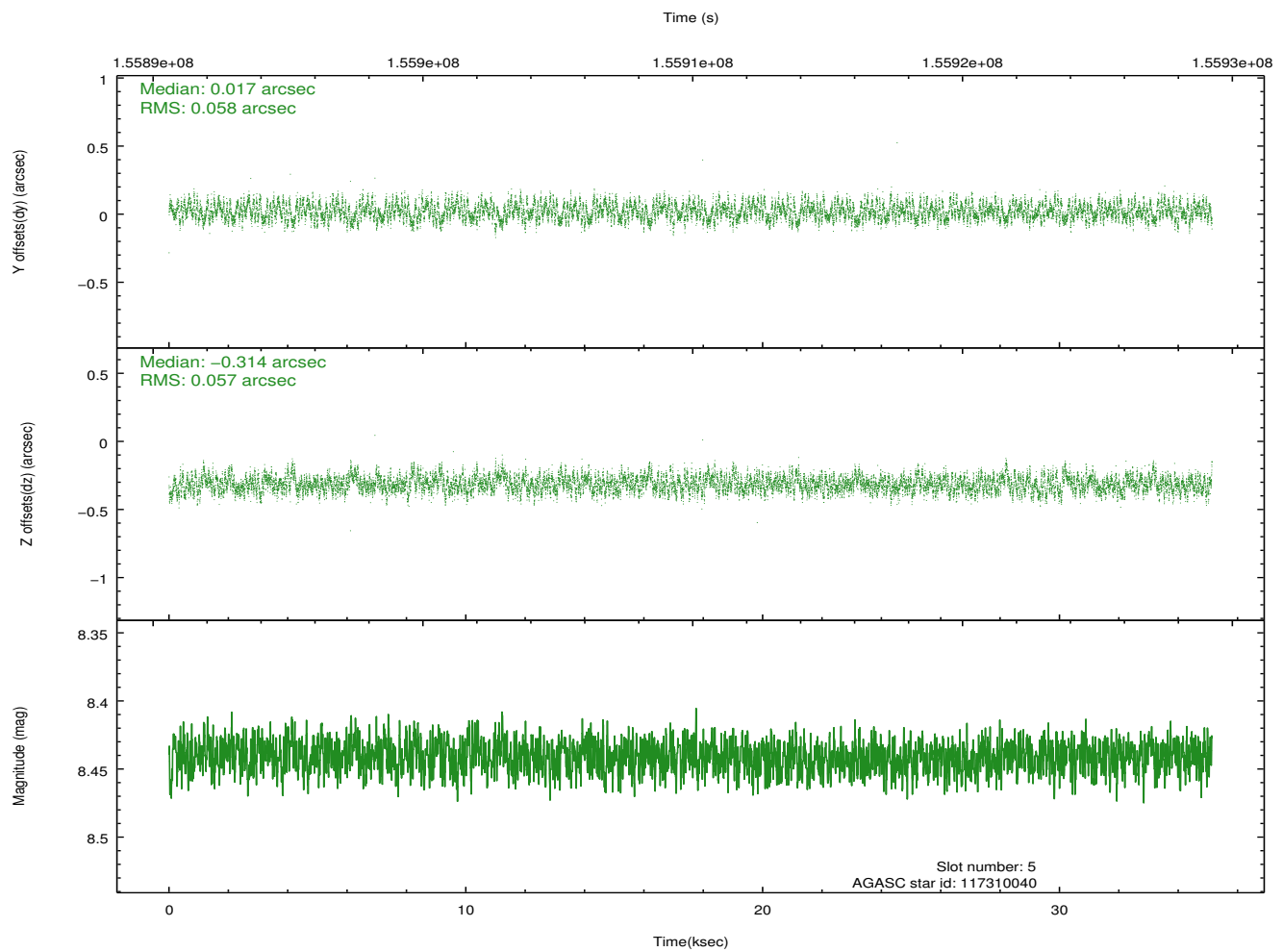
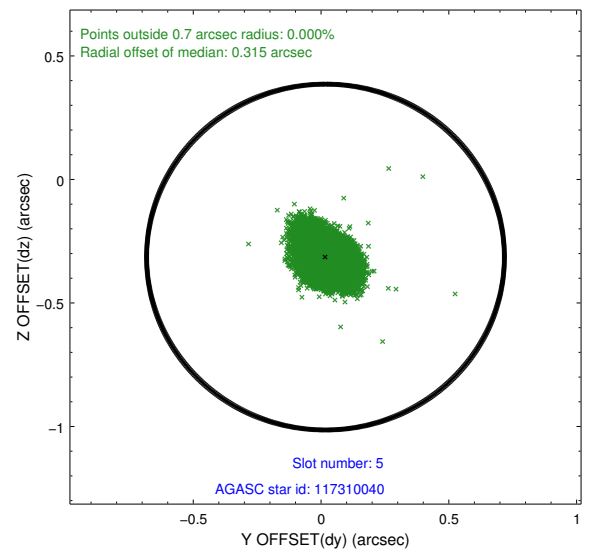
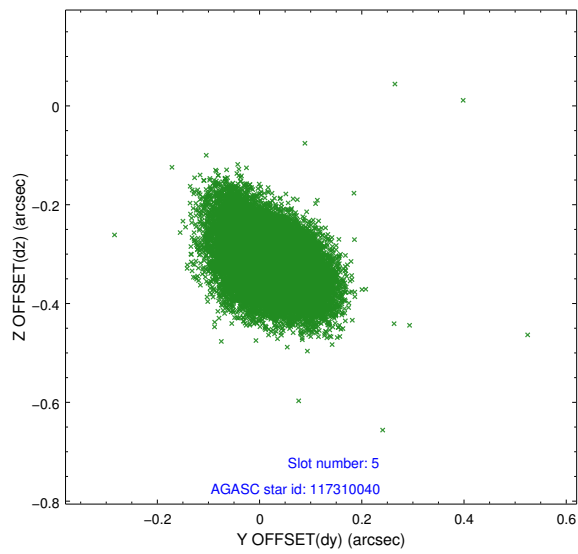
### 2.4.1 Slot 3



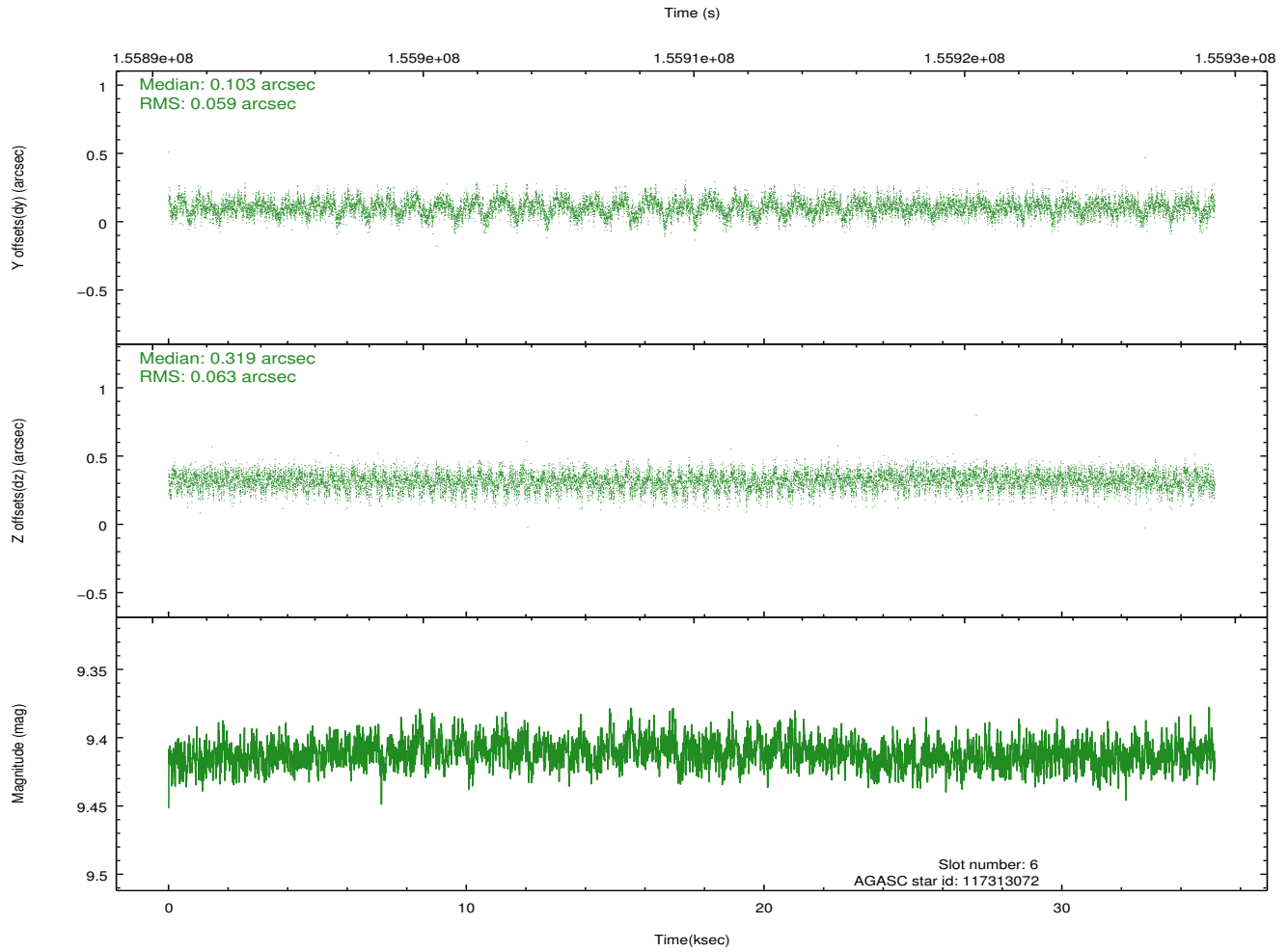
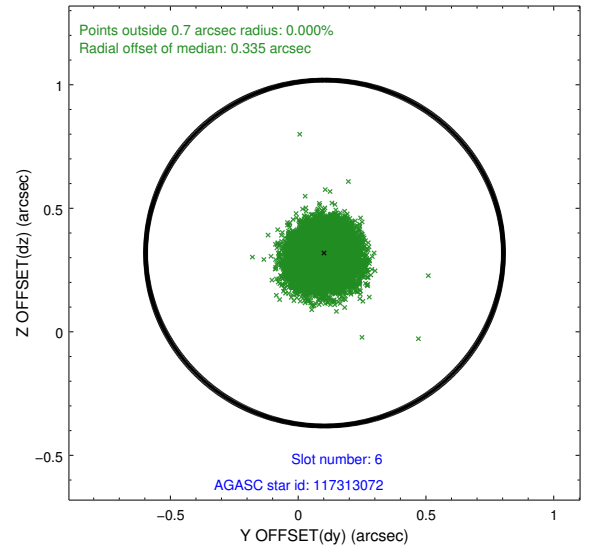
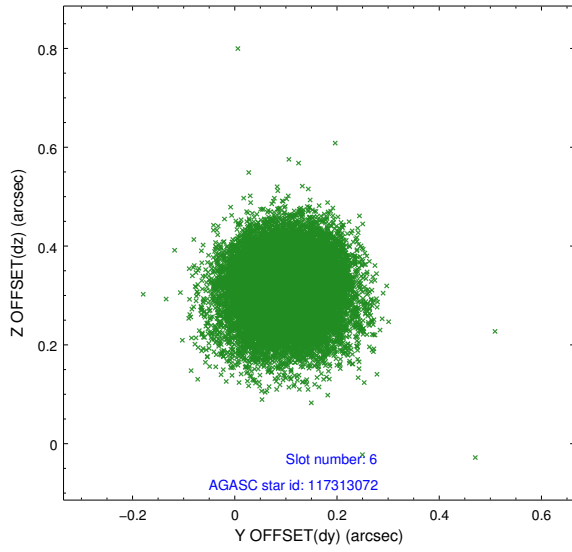
### 2.4.2 Slot 4



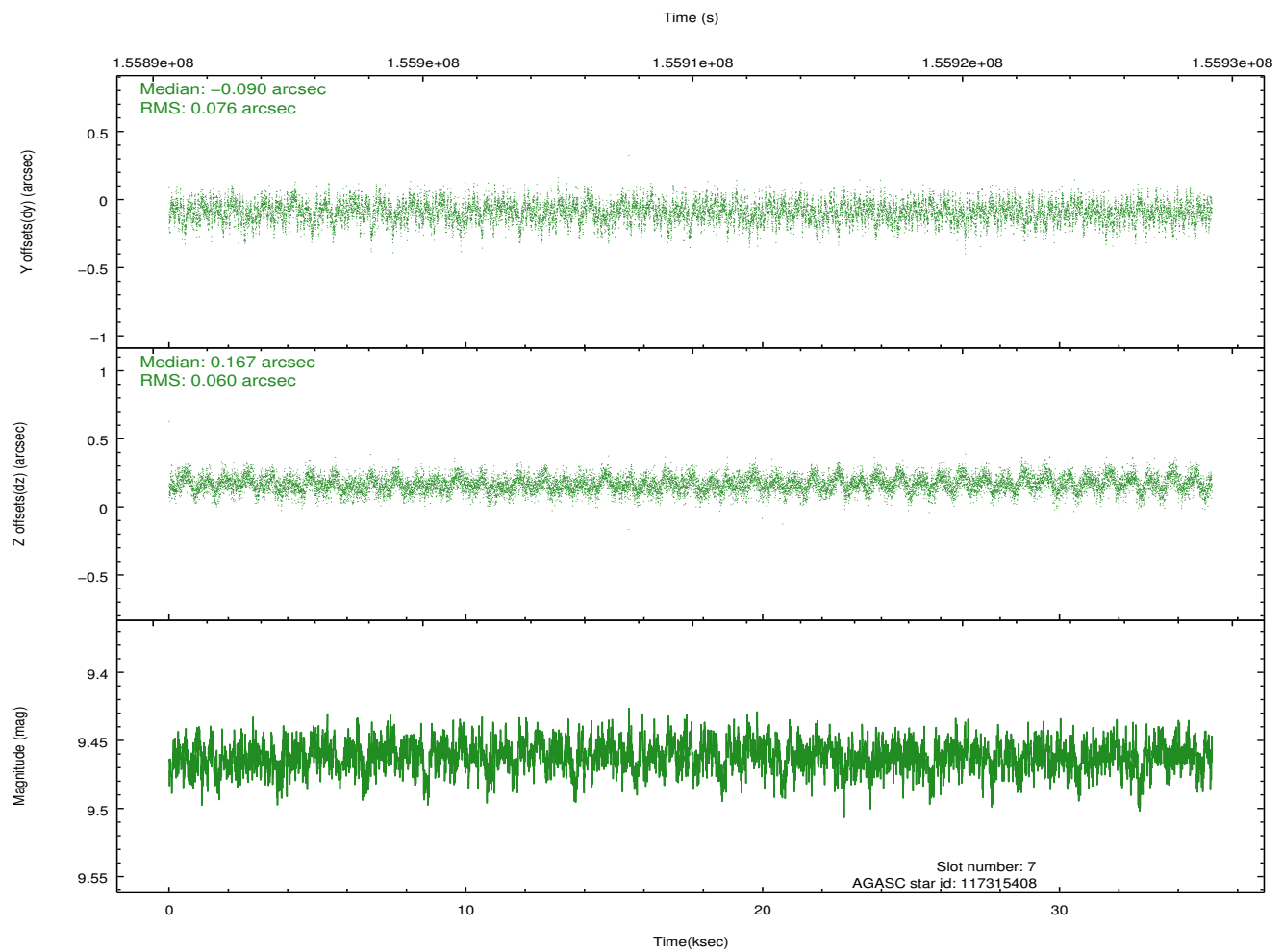
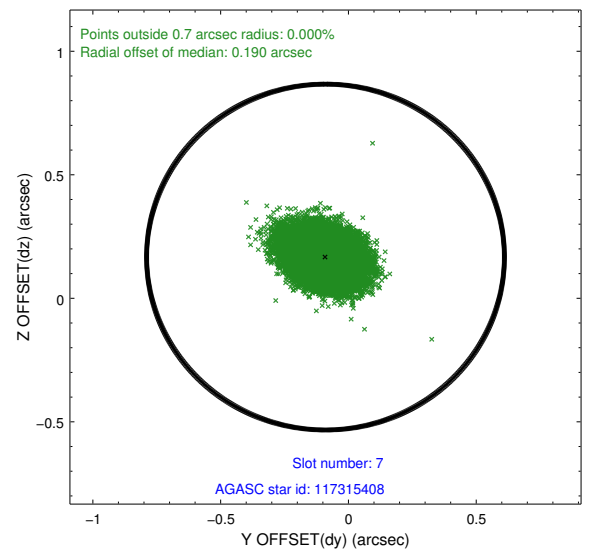
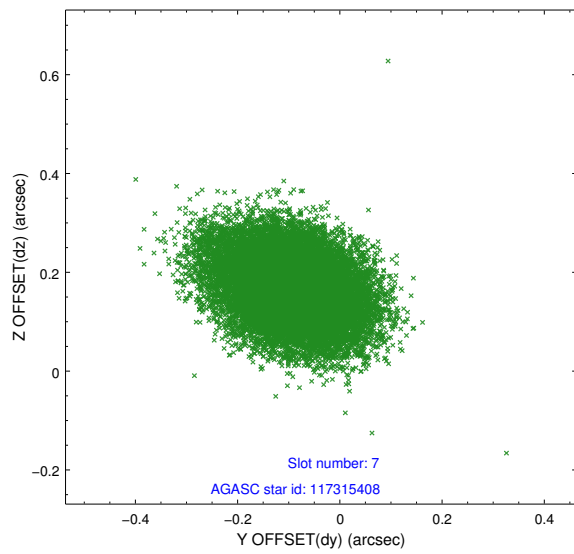
### 2.4.3 Slot 5



### 2.4.4 Slot 6

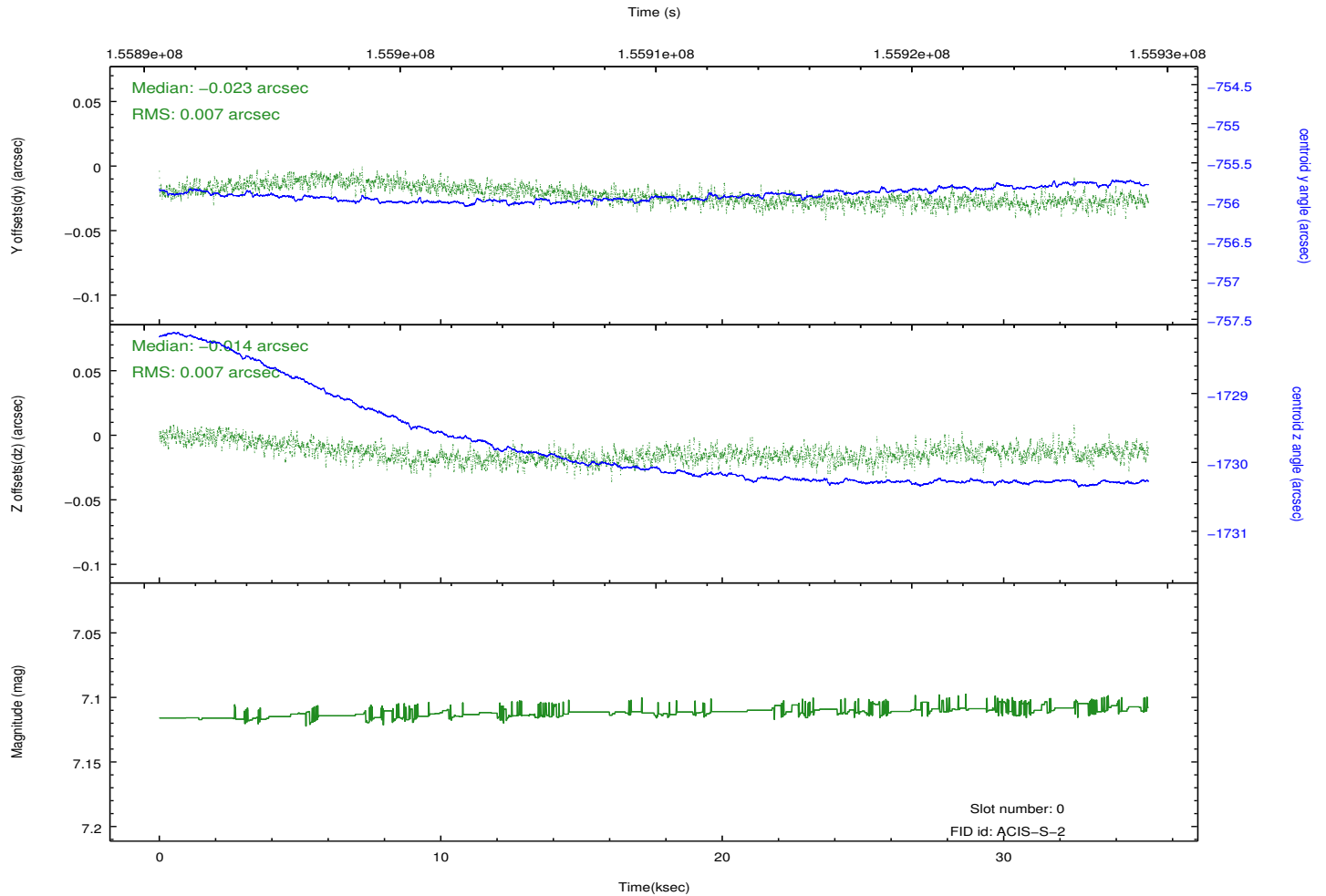
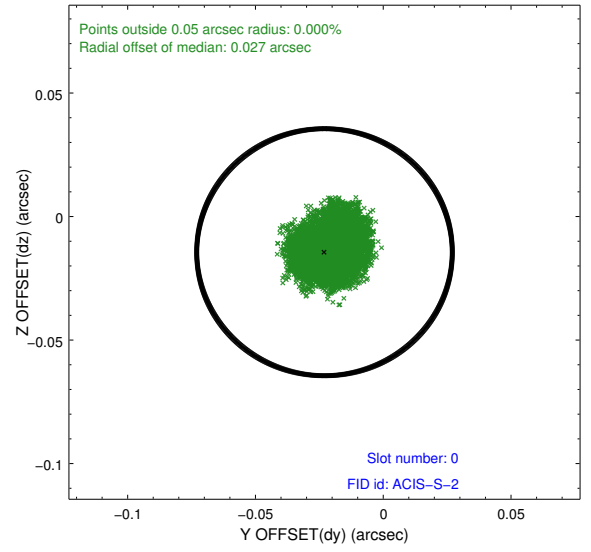
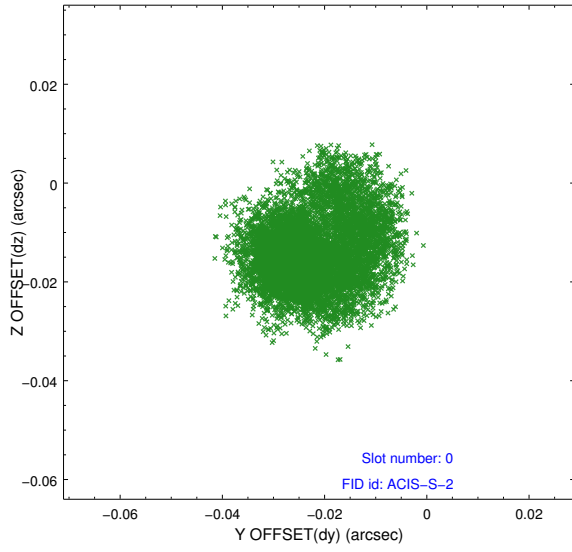


## 2.4.5 Slot 7

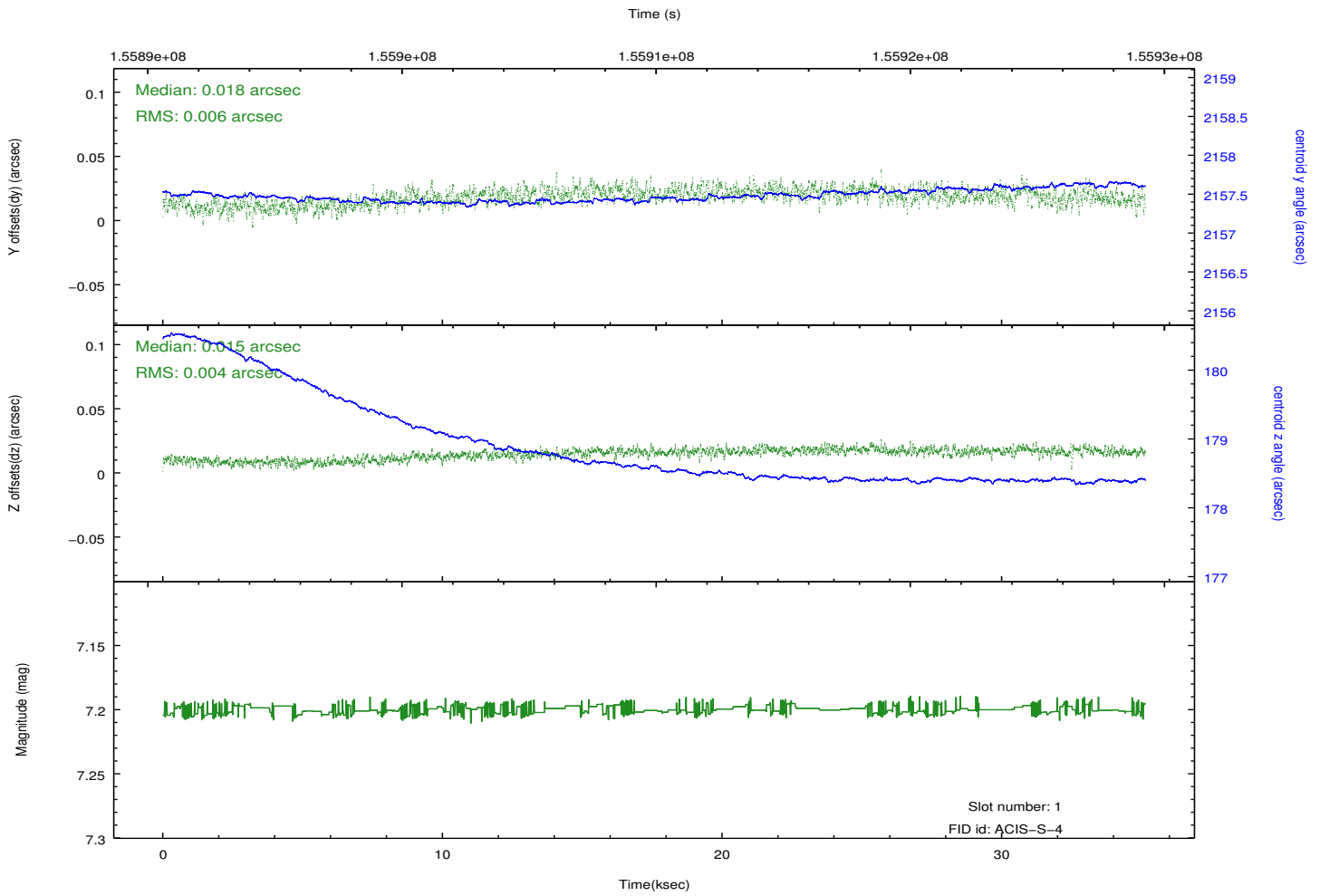
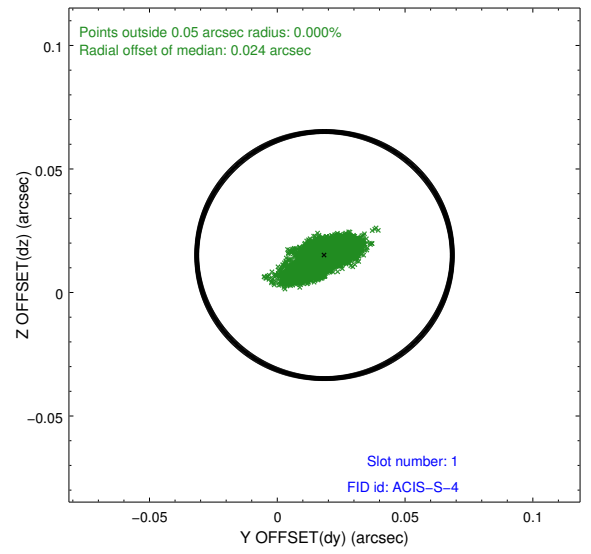
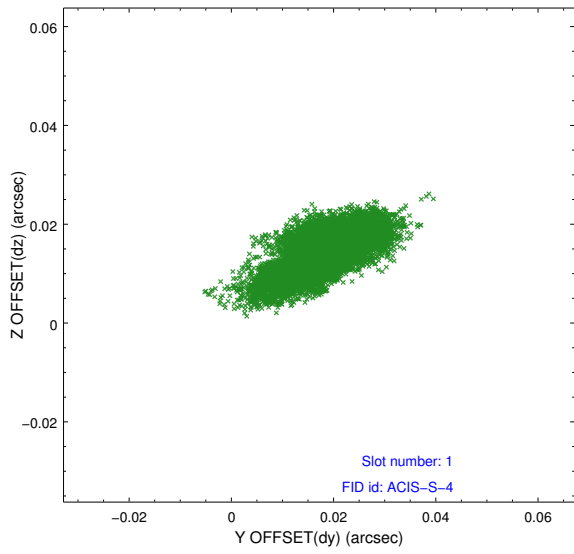


## 2.5 FID Slots

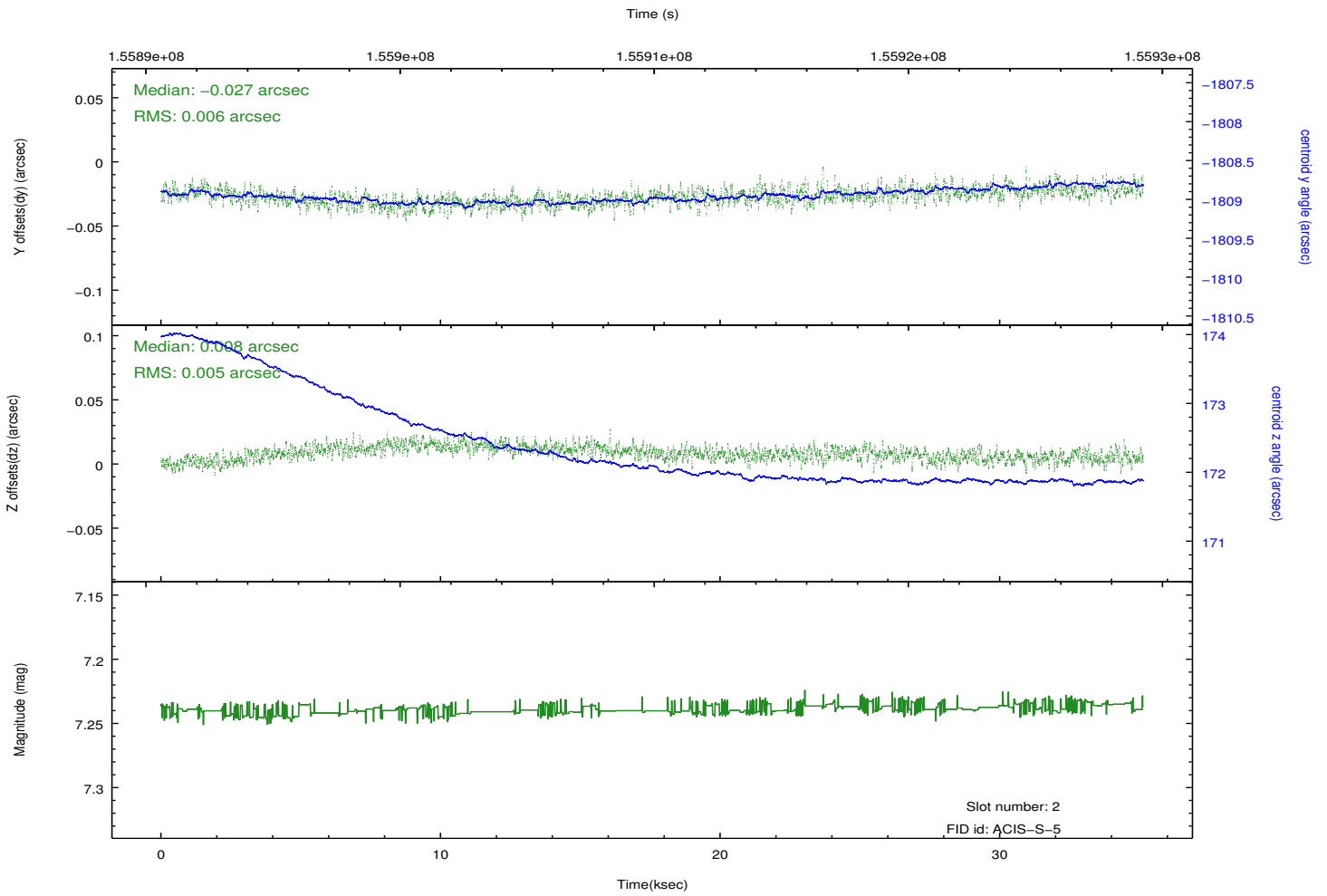
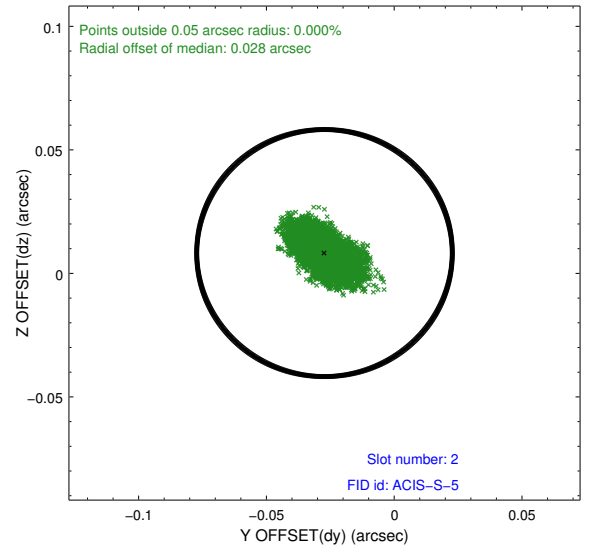
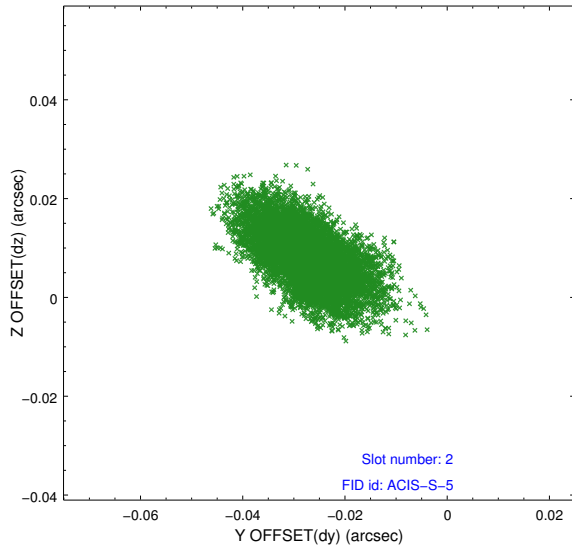
### 2.5.1 Slot 0



## 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)	2012.10.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.132

## A.2 Comments