

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6942 - L2 Version 2  
Chandra X-Ray Center

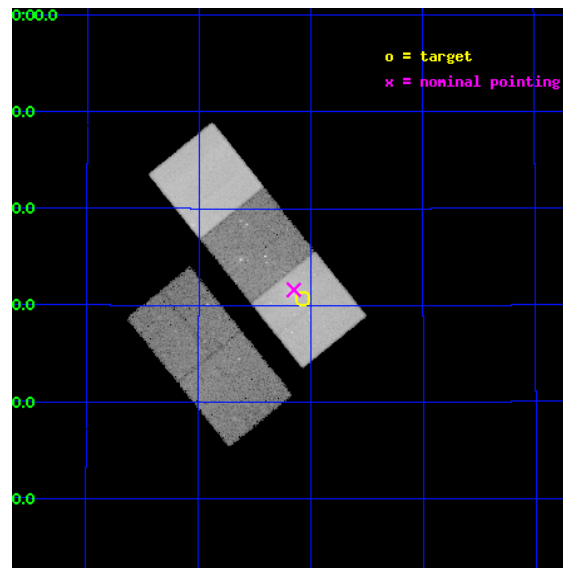
L2 Processing Date : Apr 11 2012

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# 1 Front

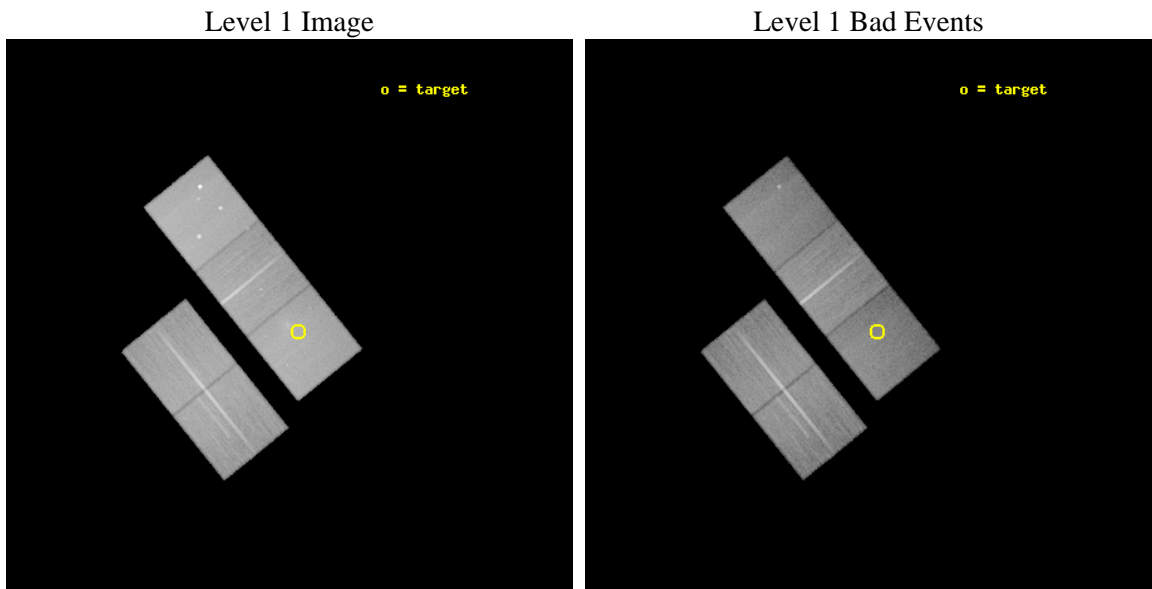
seq_num	800575	Sequence number
obs_id	6942	Observation id
title	The Cosmological Formation of Galaxy Groups	Proposal title
observer	Dr. DAVID BUOTE	Principal investigator
object	RXC J1022.0+3830	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	155.519583	Observer's specified target RA [deg]
dec_targ	38.511944	Observer's specified target Dec [deg]
ra_nom	155.53790185055	Nominal RA [deg]
dec_nom	38.526987728862	Nominal Dec [deg]
roll_nom	51.125240129209	Nominal Roll [deg]
revision	2	Processing version of data
ontime	42036.000323296	Sum of GTIs [s]
livetime	41486.769032619	Livetime [s]
ontime2	42023.436461747	Sum of GTIs [s]
ontime3	42029.71839273	Sum of GTIs [s]
ontime5	42036.000323296	Sum of GTIs [s]
ontime6	42029.718372762	Sum of GTIs [s]
ontime7	42036.000323296	Sum of GTIs [s]
l2events	460087	Number of level 2 events



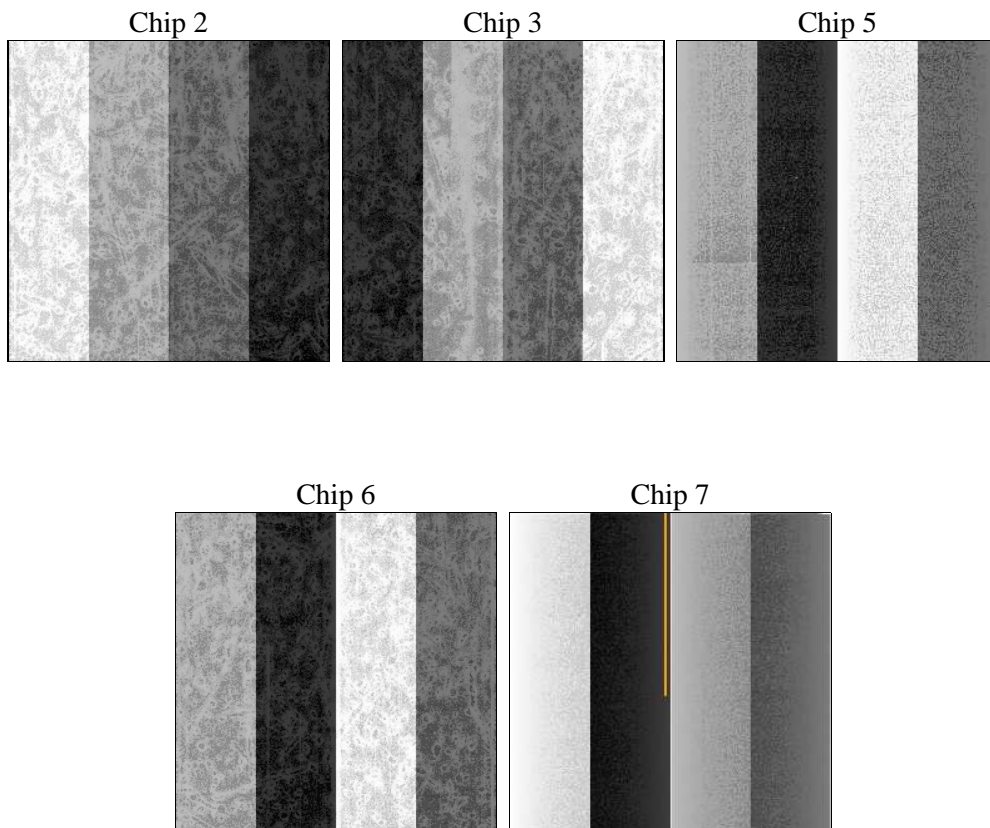
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	42036.000323296	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	42023.436461747	Sum of GTIs [s]
date	2012-04-11T16:05:38	Date and time of file creation	ontime3	42029.71839273	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	42036.000323296	Sum of GTIs [s]
			ontime6	42029.718372762	Sum of GTIs [s]
			ontime7	42036.000323296	Sum of GTIs [s]
			l1events	1774669	Number of level 1 events

### 2.1.4 Events

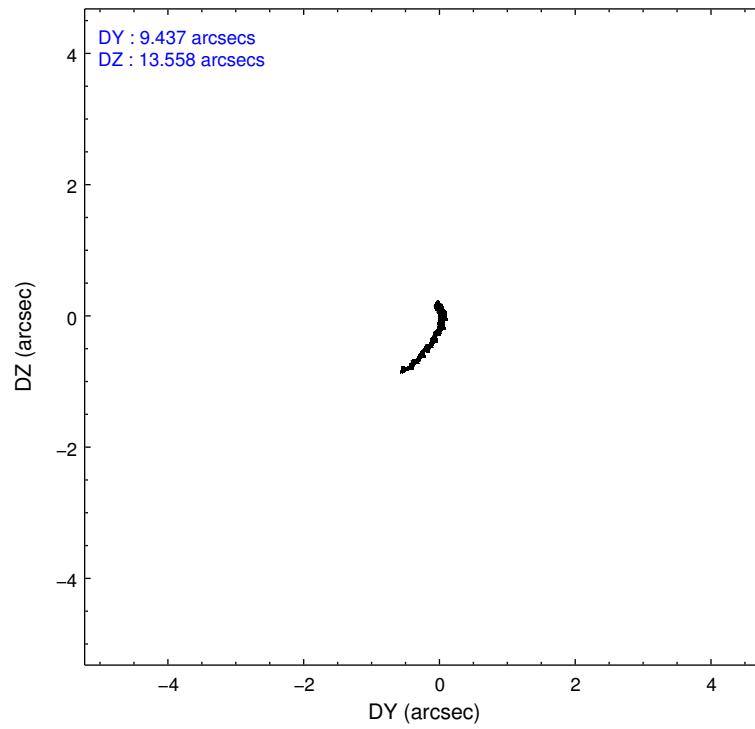
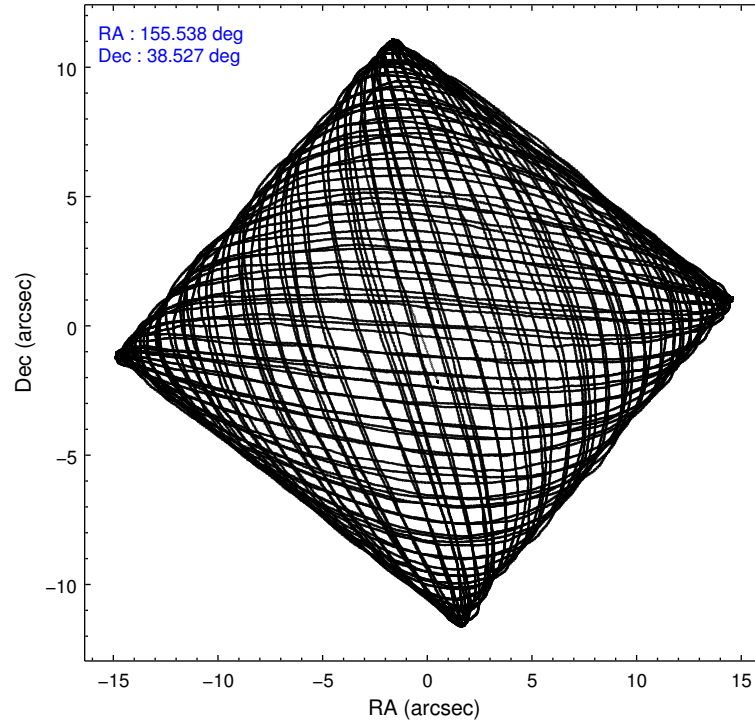
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	326746	306527	441679	329491	370226
rejected events	296513	277311	217793	291722	191669
rejected %	90%	90%	49%	88%	51%

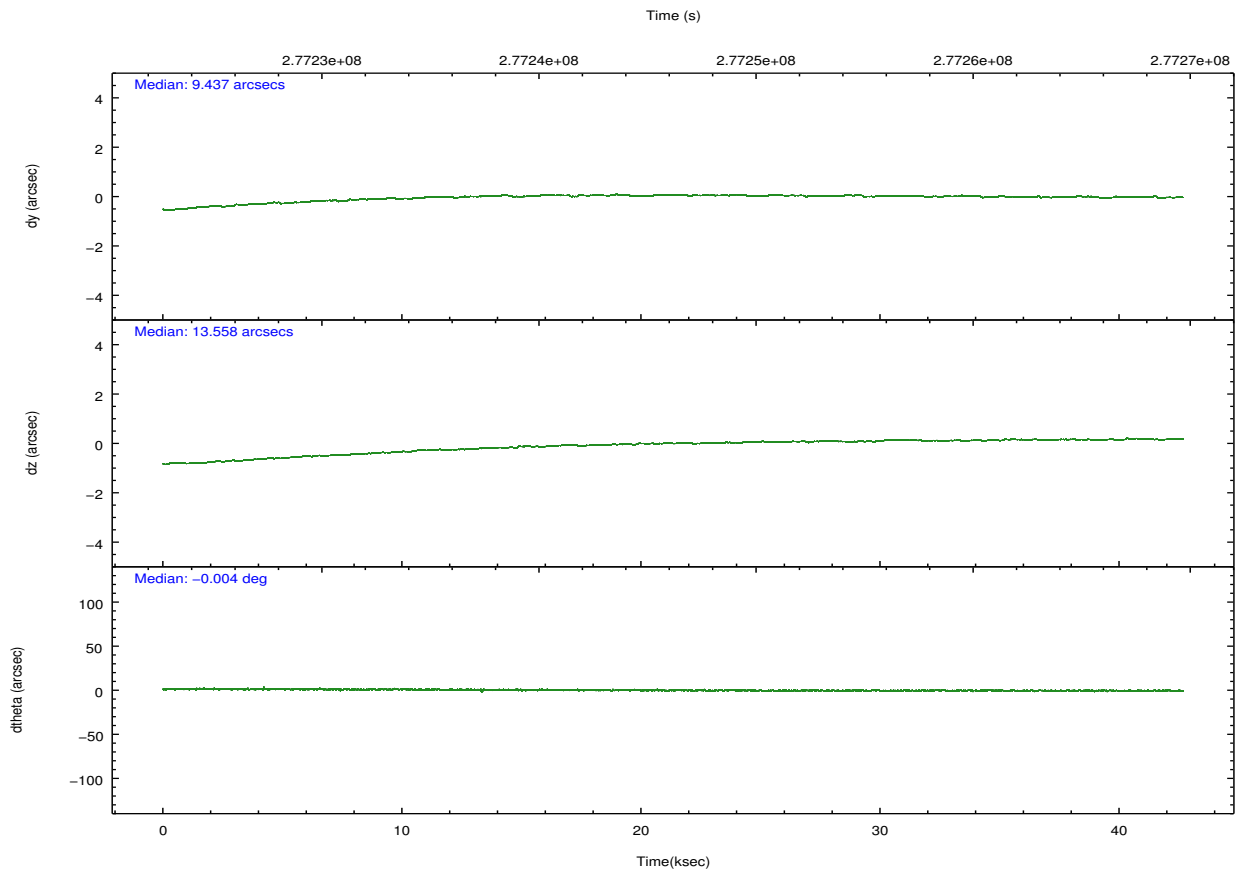
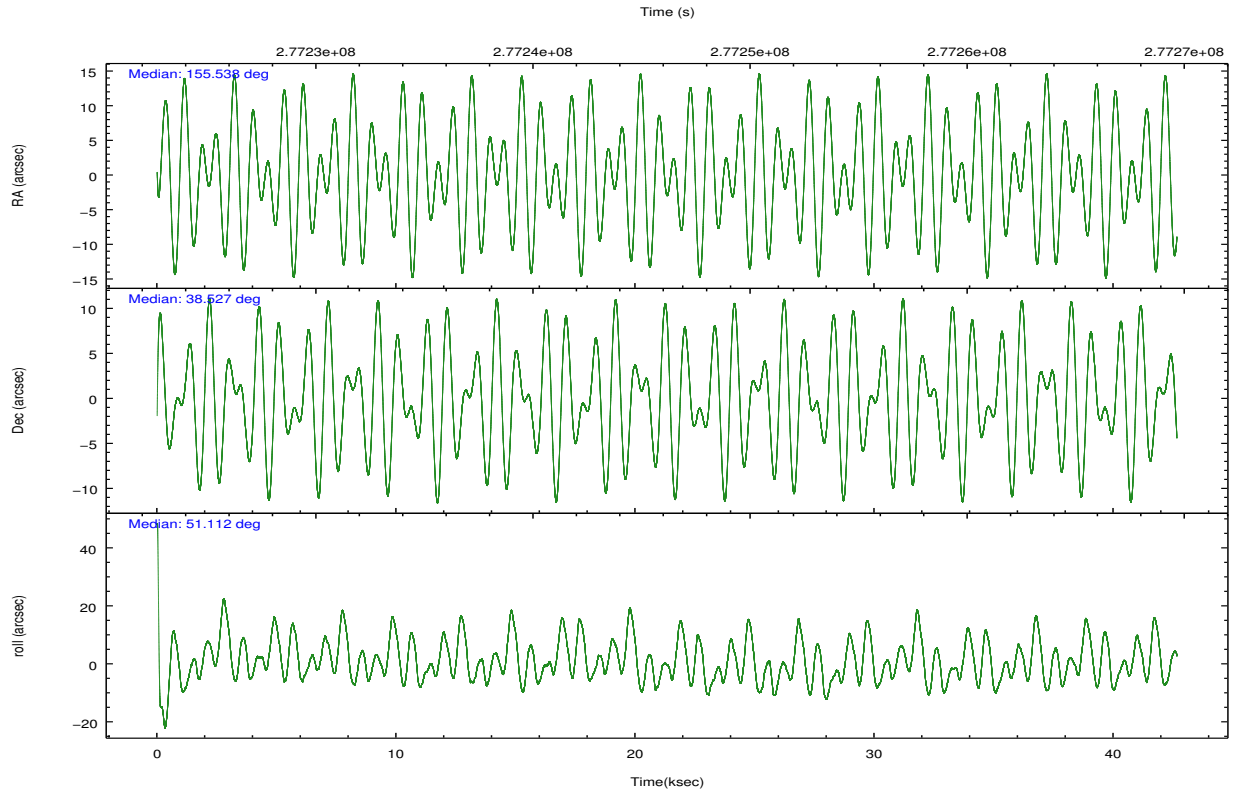
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	10941	10392	27057	15692	21047
	3%	3%	6%	4%	5%
grade 1 events	137	163	1747	189	429
	0%	0%	0%	0%	0%
grade 2 events	7119	6361	65976	7750	37189
	2%	2%	14%	2%	10%
grade 3 events	3410	3395	9348	3720	17160
	1%	1%	2%	1%	4%
grade 4 events	3389	3273	9331	3646	16733
	1%	1%	2%	1%	4%
grade 5 events	9812	12360	34681	12700	37512
	3%	4%	7%	3%	10%
grade 6 events	5375	5797	112207	6965	86453
	1%	1%	25%	2%	23%
grade 7 events	286563	264786	181332	278829	153703
	87%	86%	41%	84%	41%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	155.532985	155.53790185055	Subarray requested	NONE	NONE
[deg] Pointing Dec	38.500013	38.52698772886222	Alternating exposures requested	N	N
[deg] Pointing Roll	50.971652	51.125240129209	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	277225506.184000	277224182.81008			
Observation start date	2006-10-14T15:04:01	2006-10-14T14:43:02			
[s] Observation end time (MET)	277267506.184000	277268134.81215			
Observation end date	2006-10-15T02:44:01	2006-10-15T02:55:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect



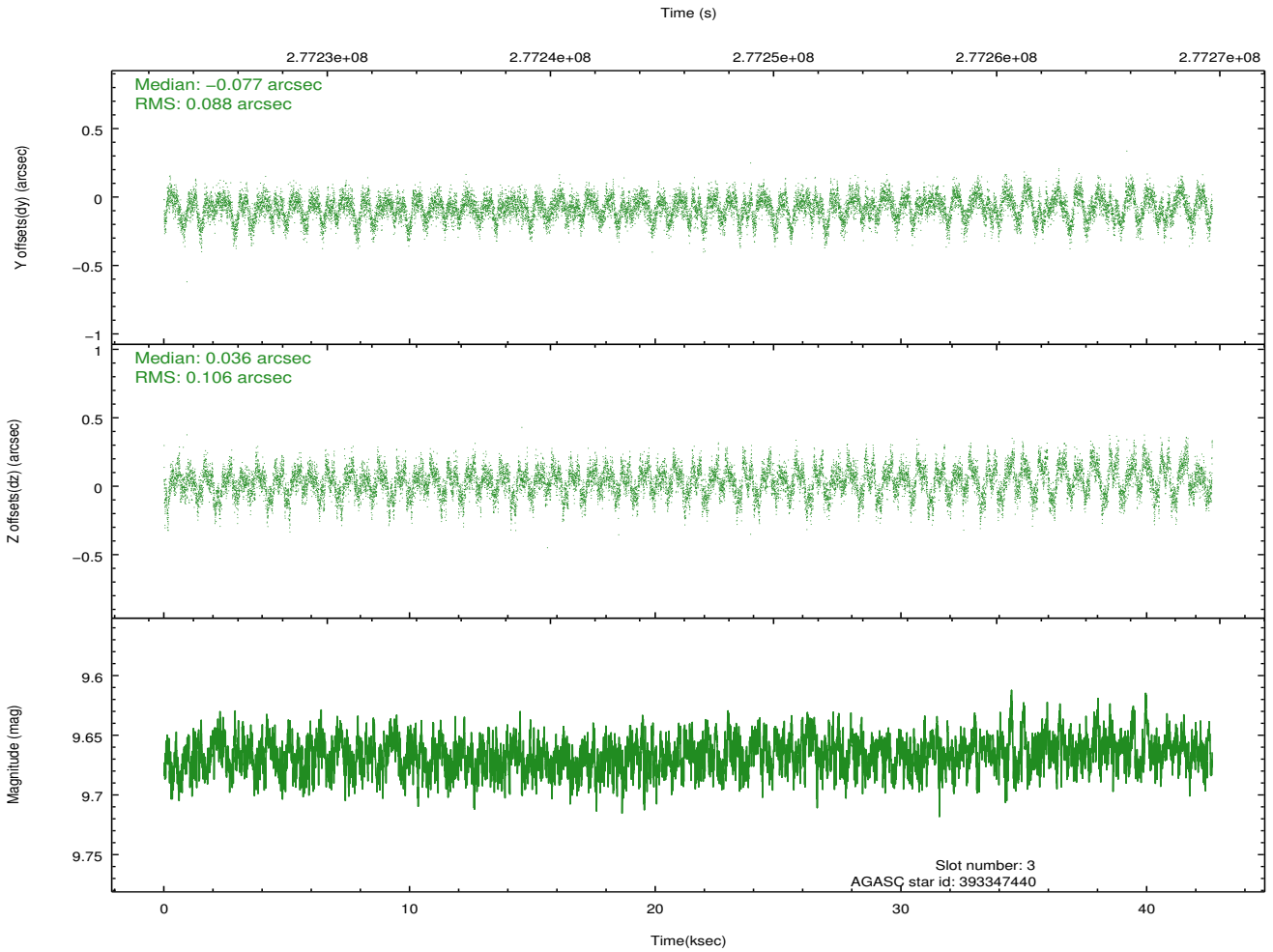
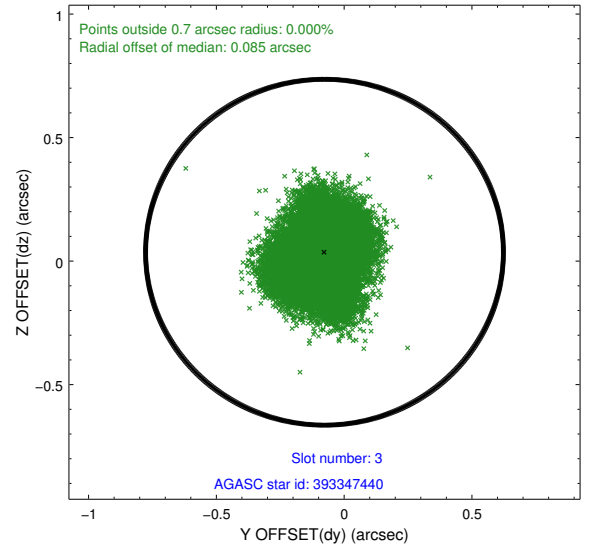
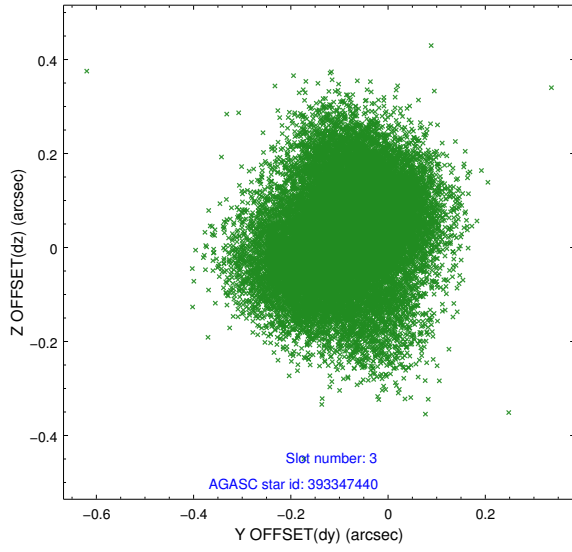


### Slot Statistics

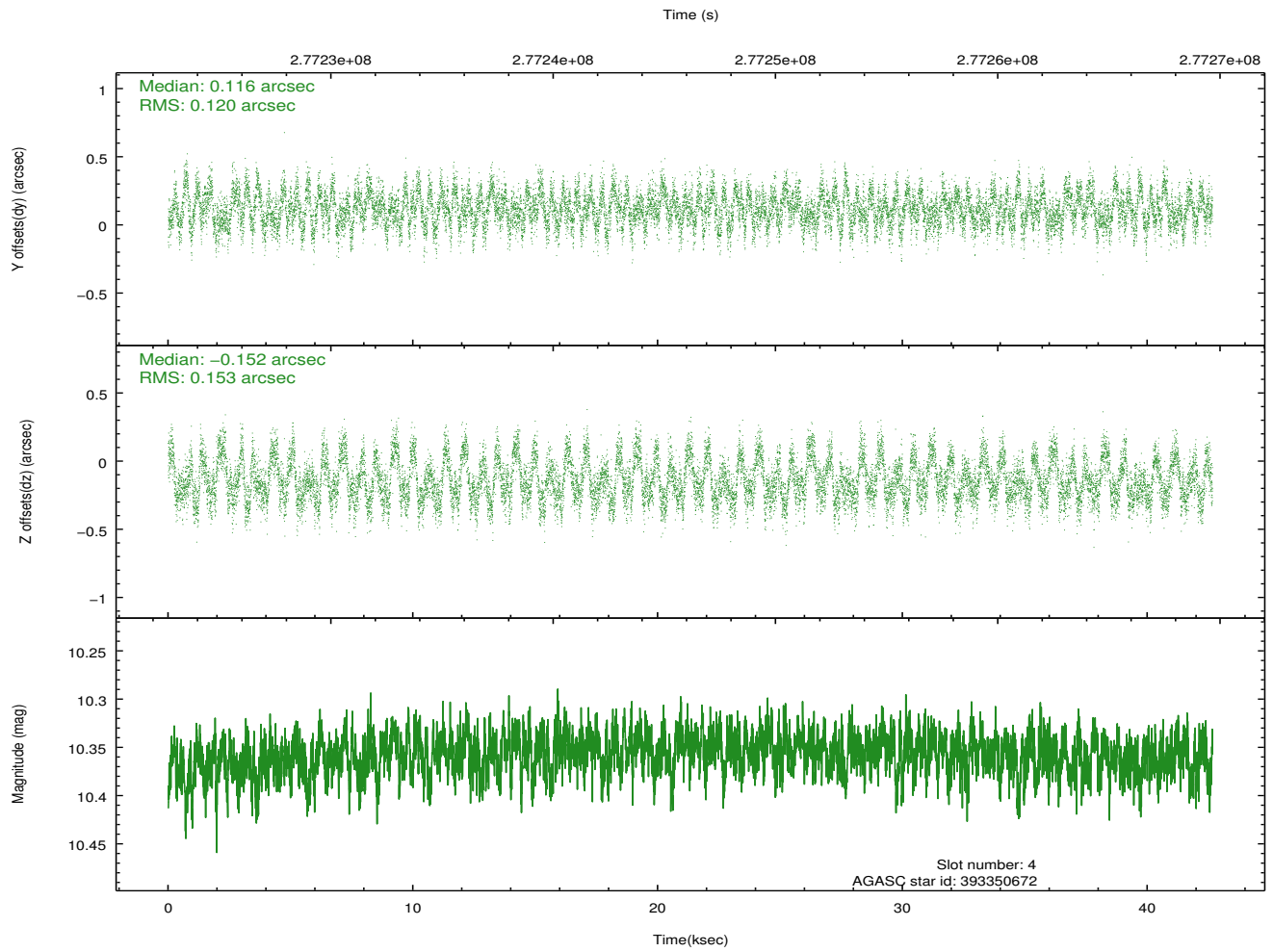
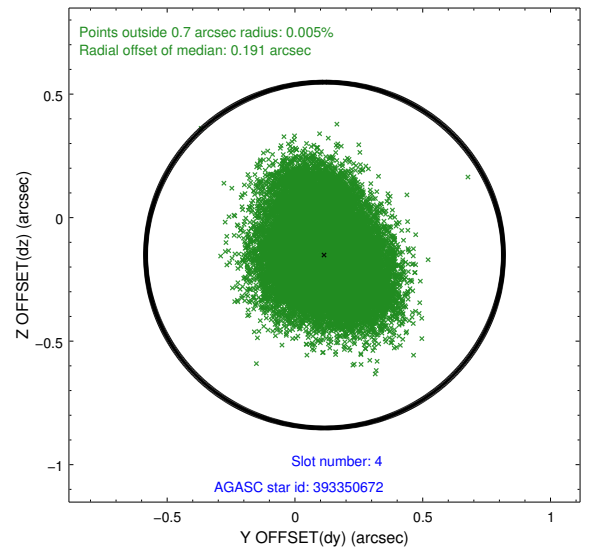
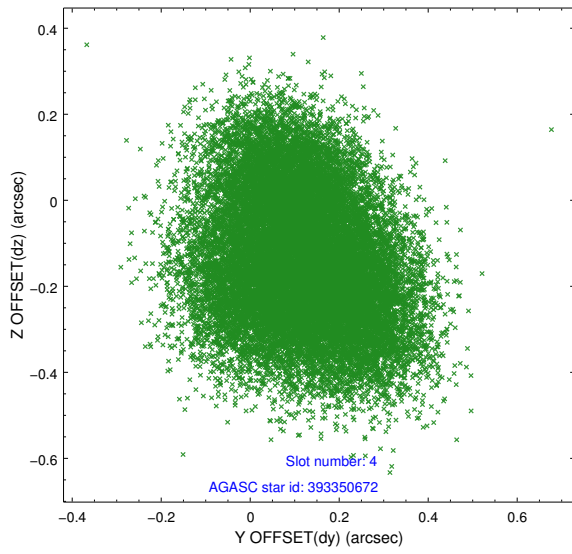
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	10404	-0.026	-0.061	0.009	0.020	0.000000	0.000000	-762.24	-1734.83
1	FID	ACIS-S-4	7.20	10401	0.152	0.029	0.008	0.023	0.000000	0.000000	2151.23	173.72
2	FID	ACIS-S-5	7.23	10403	-0.157	0.041	0.007	0.012	0.000000	0.000000	-1815.19	167.43
3	GUIDE	393347440	9.67	20779	-0.077	0.036	0.149	0.235	155.902284	38.446582	508.17	-928.56
4	GUIDE	393350672	10.36	20764	0.116	-0.152	0.211	0.325	154.840102	38.756648	-501.62	2097.11
5	GUIDE	393351688	9.93	20758	-0.013	0.029	0.232	0.387	155.827820	38.422534	308.33	-820.64
6	GUIDE	393352112	9.01	20794	0.126	0.184	0.131	0.208	156.067515	38.125782	-89.24	-2021.26
7	GUIDE	393352720	10.07	20781	-0.149	-0.087	0.228	0.345	155.664021	39.124411	1976.69	1131.42

## 2.4 Star Slots

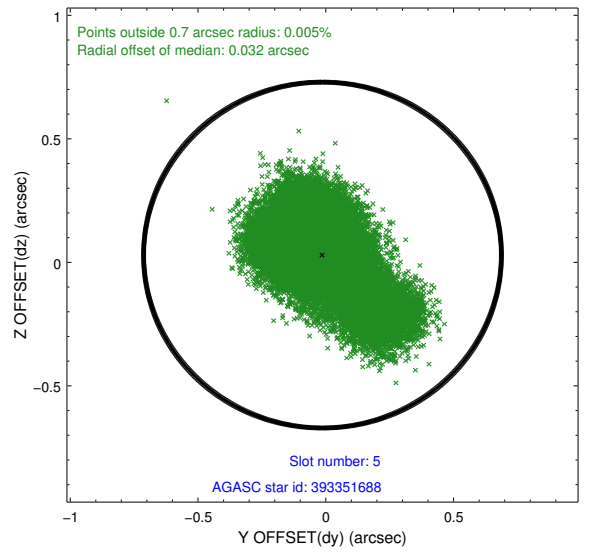
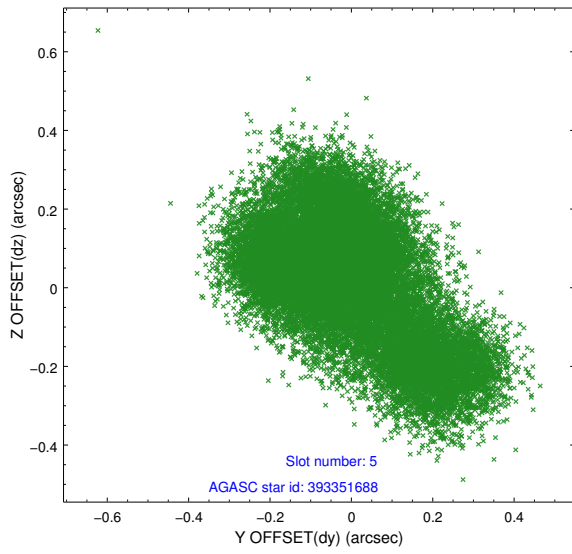
### 2.4.1 Slot 3



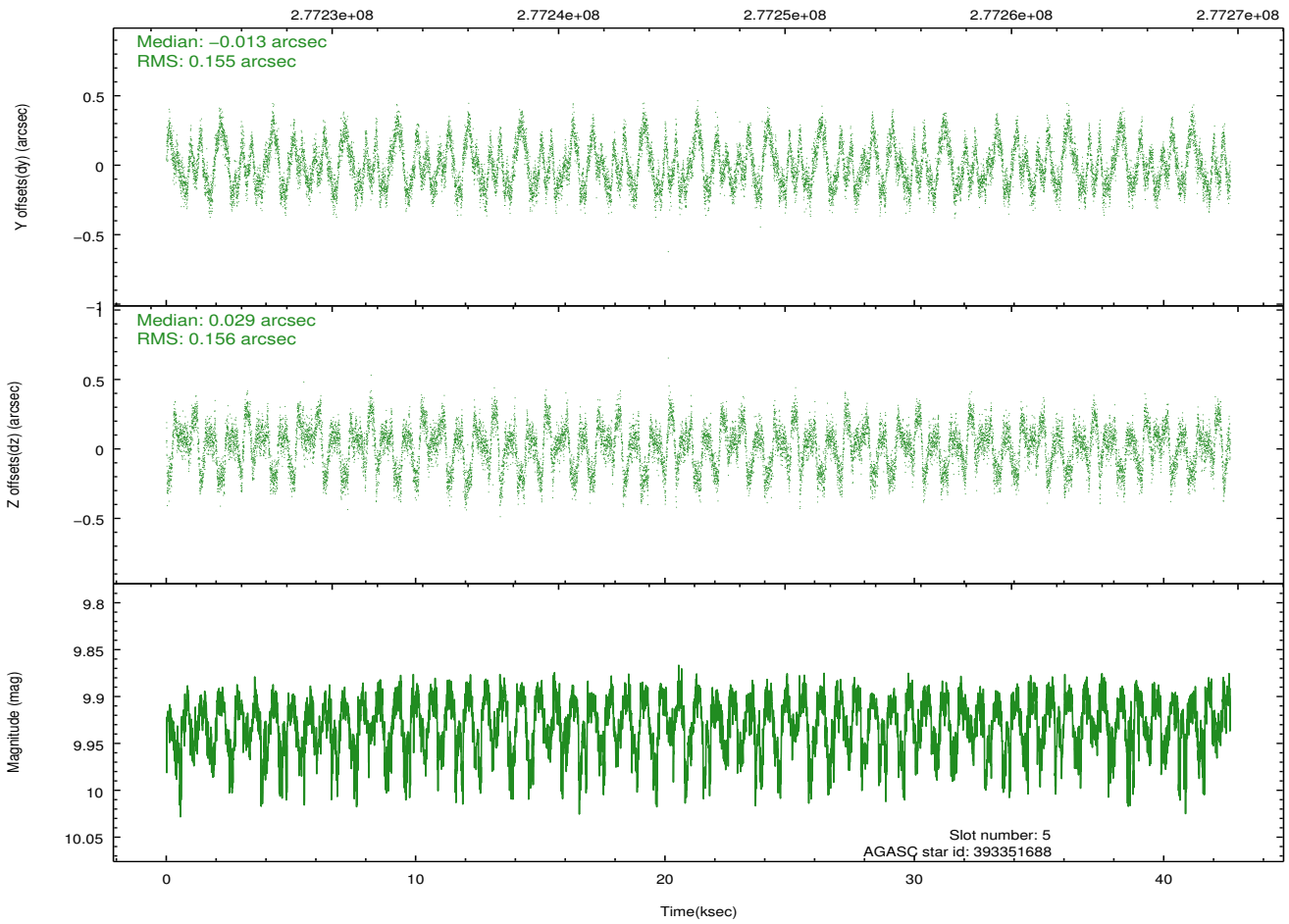
## 2.4.2 Slot 4



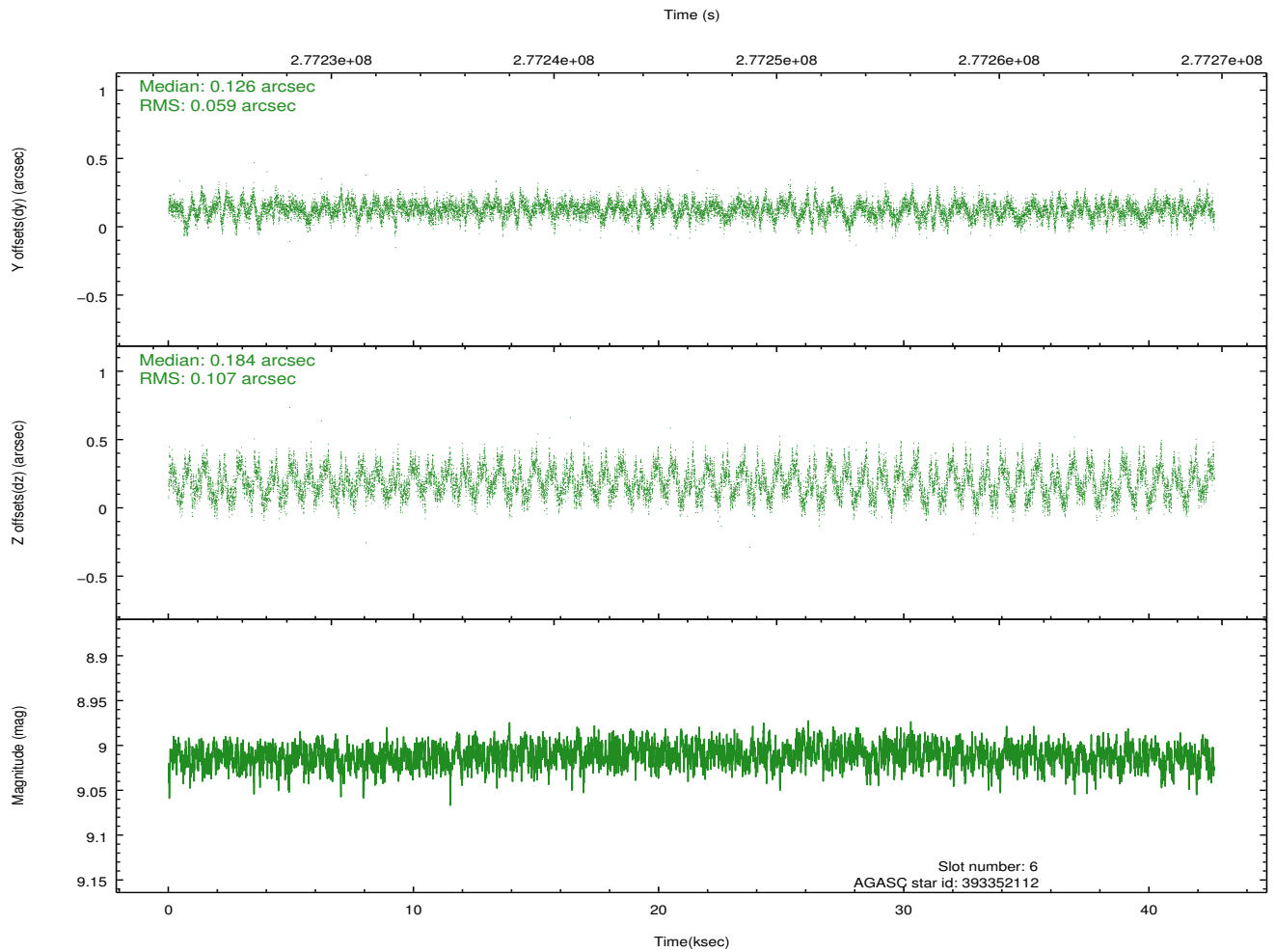
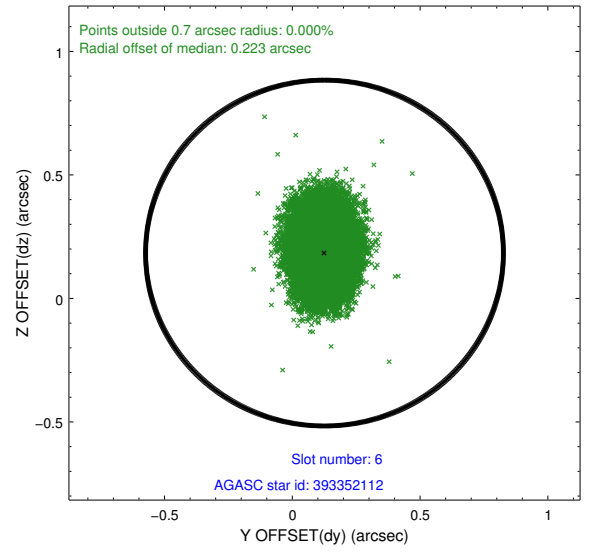
### 2.4.3 Slot 5



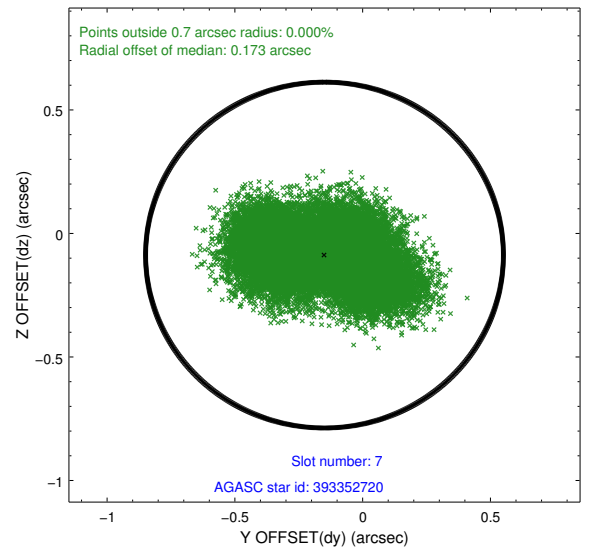
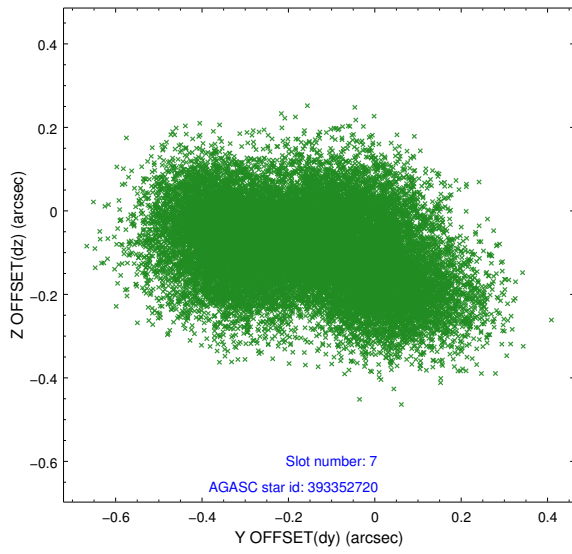
Time (s)



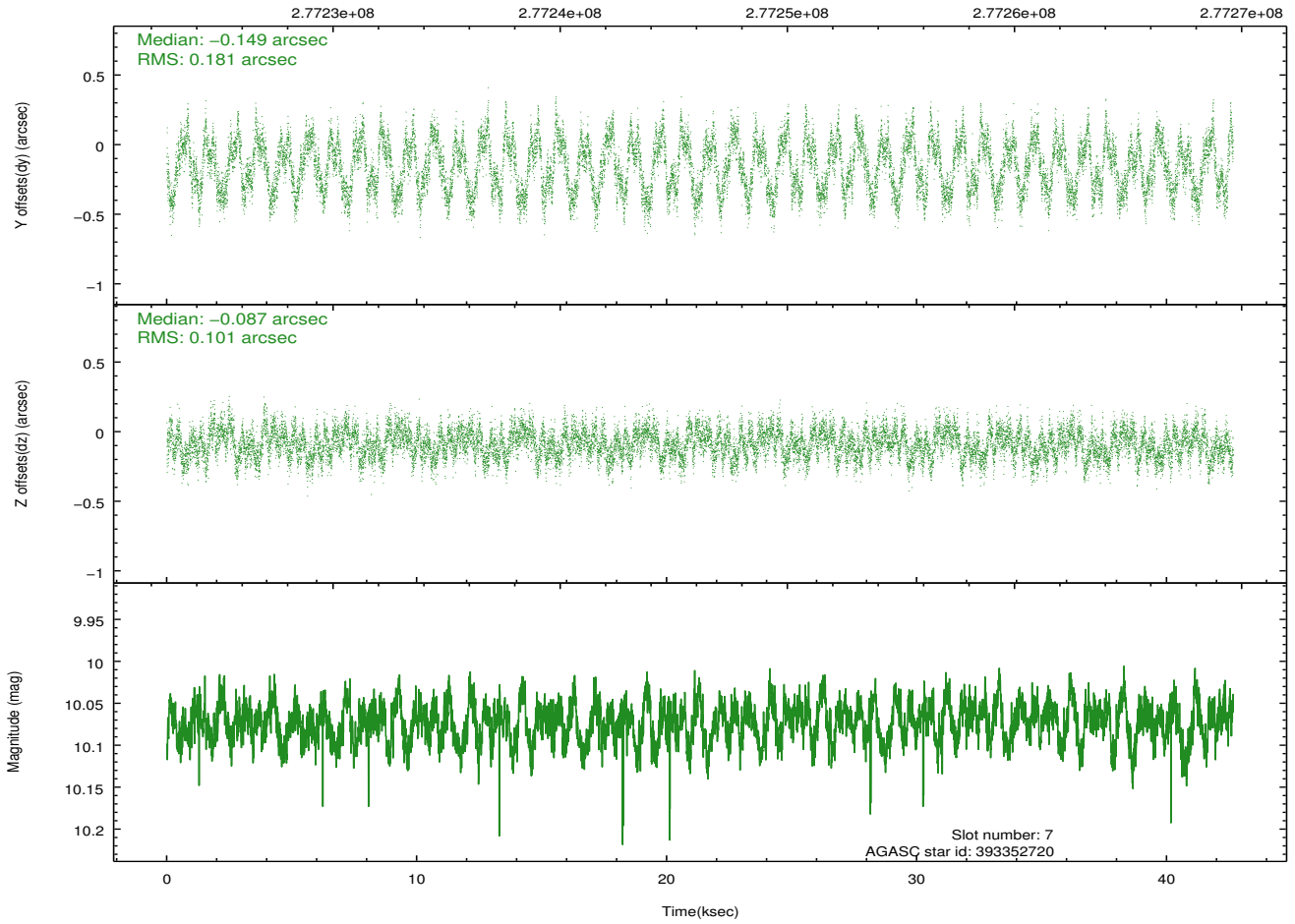
### 2.4.4 Slot 6



### 2.4.5 Slot 7

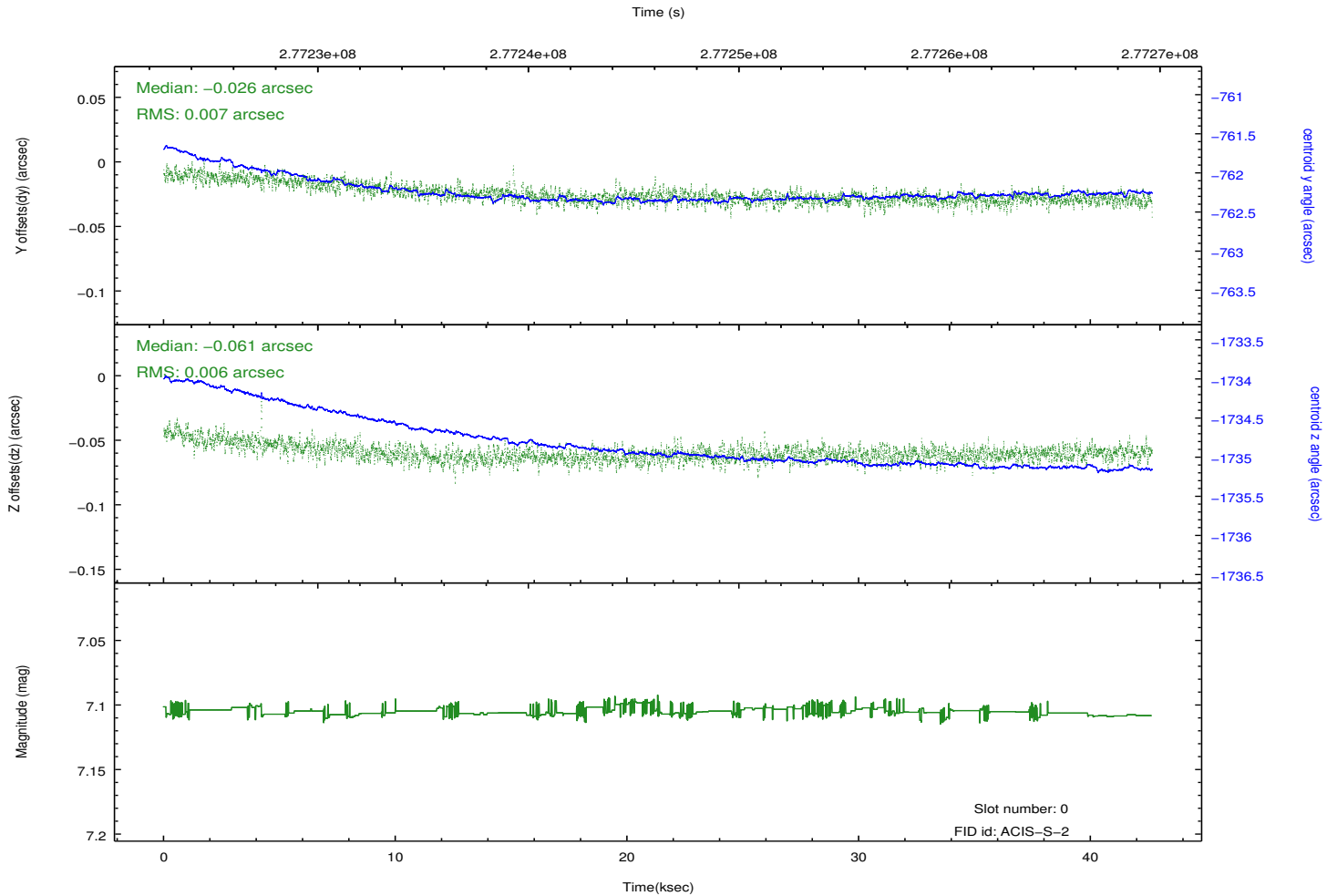
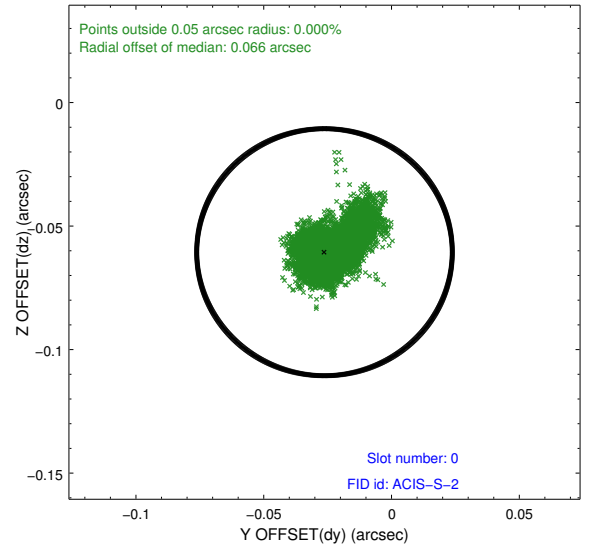
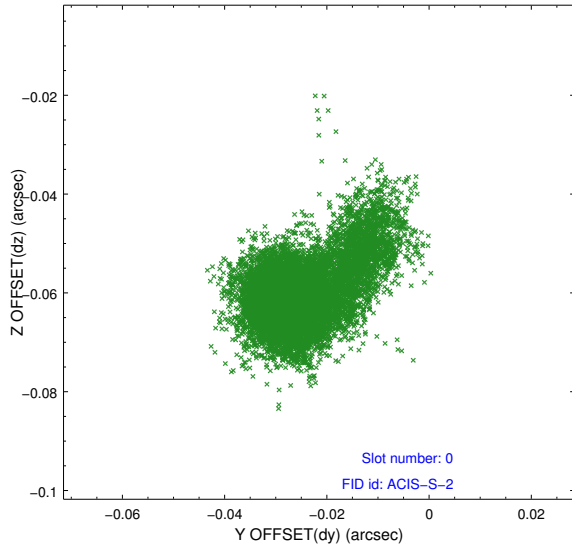


Time (s)

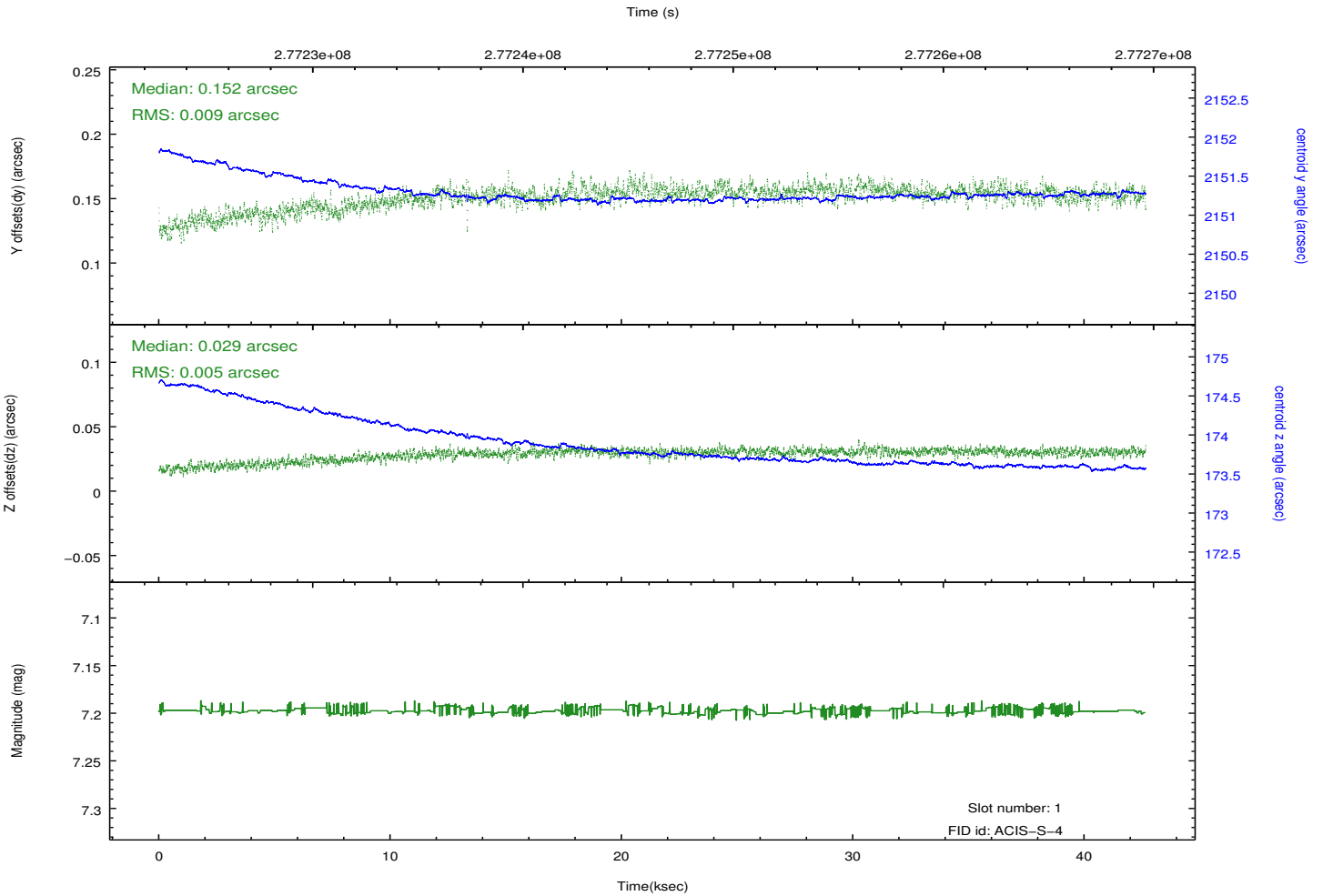
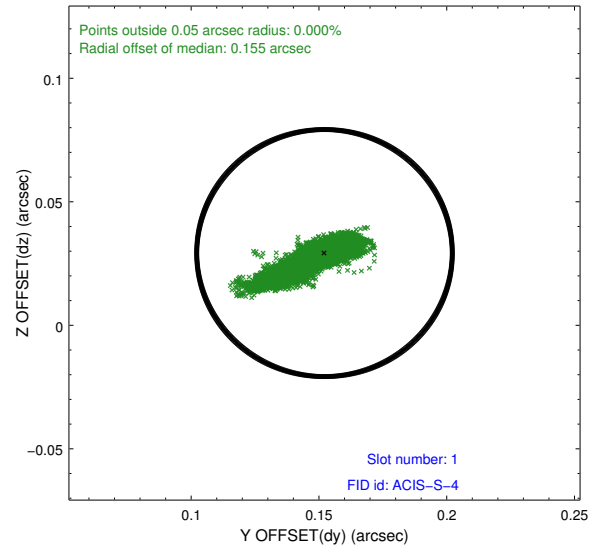
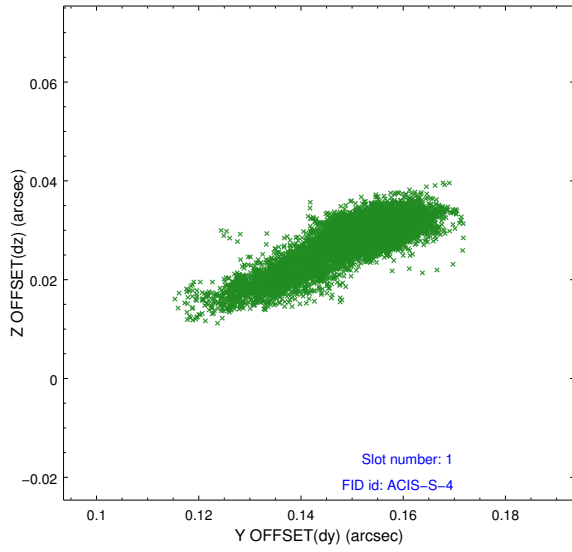


## 2.5 FID Slots

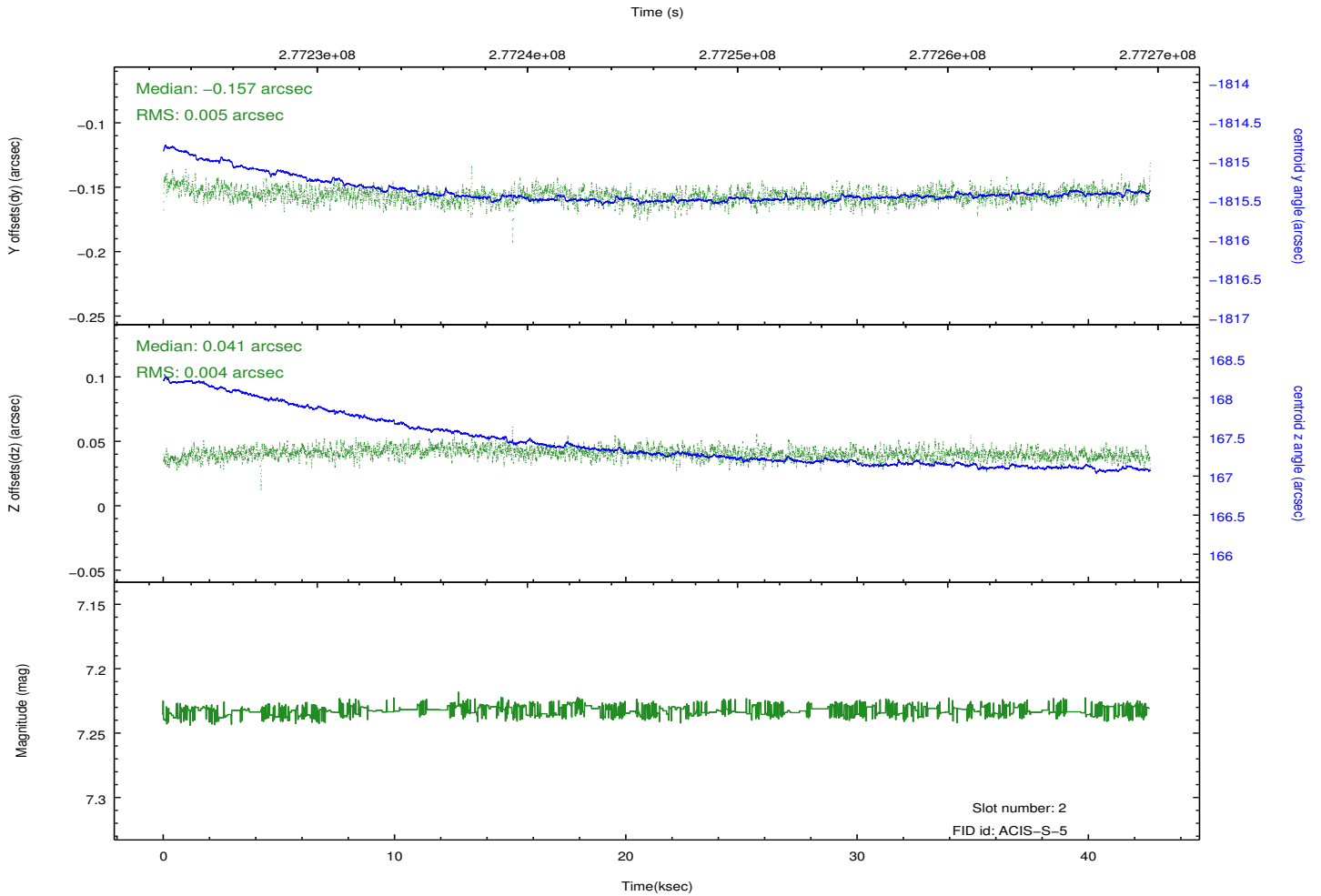
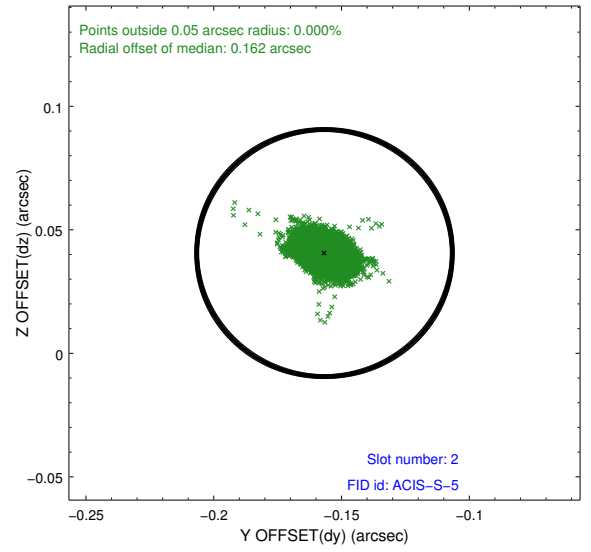
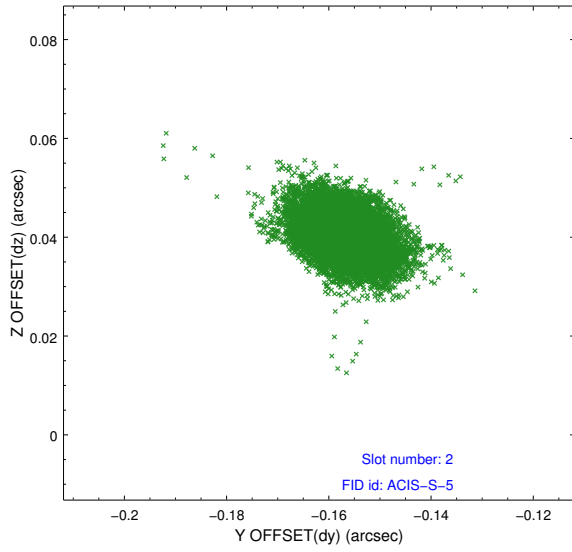
### 2.5.1 Slot 0



## 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)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.0360003

### A.2 Comments