

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3150 - L2 Version 4  
Chandra X-Ray Center

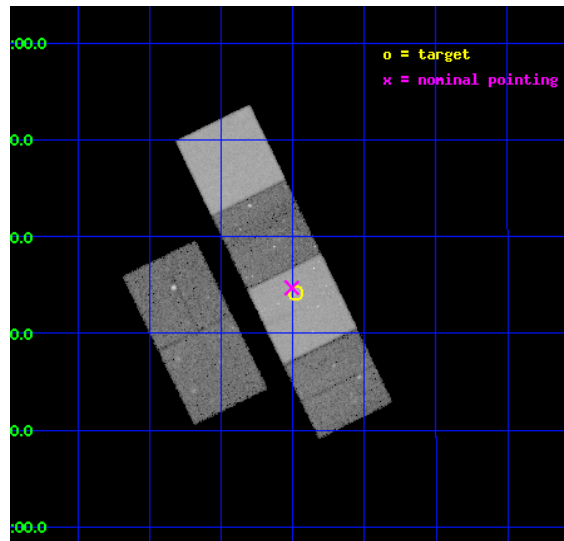
L2 Processing Date : Oct 18 2012

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# 1 Front

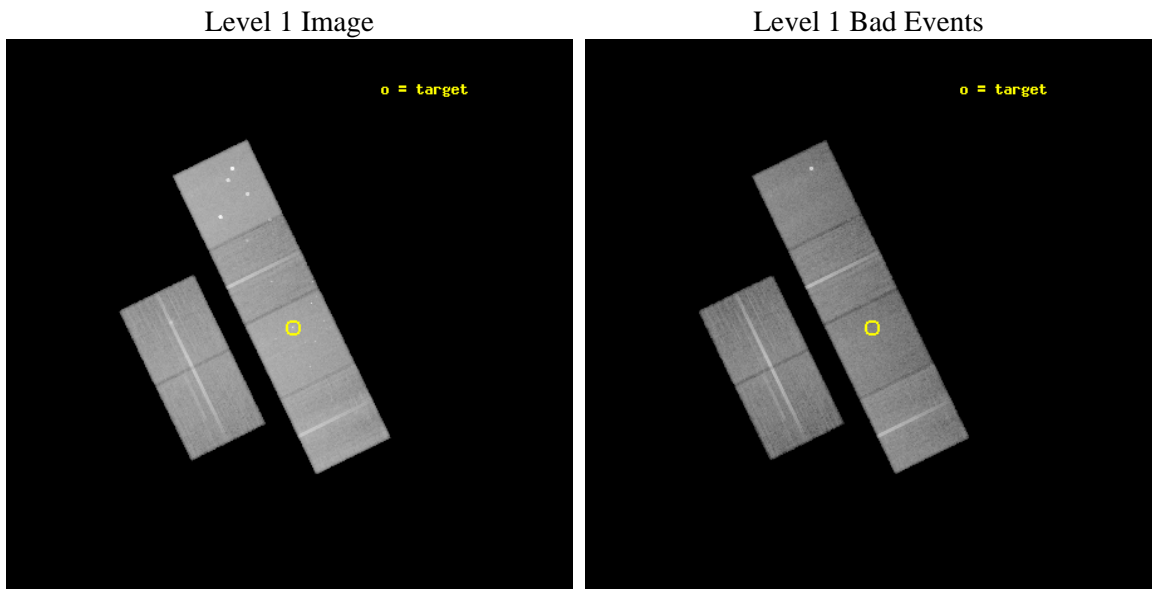
seq_num	700589	Sequence number
obs_id	3150	Observation id
title	CHANDRA OBSERVATIONS OF TYPE-2 LINERS: STARBURSTS OR AGNS ?	Propos
observer	Dr Andreas Zezas	Principal investigator
object	NGC4457	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.24625	Observer's specified target RA [deg]
dec_targ	3.570556	Observer's specified target Dec [deg]
ra_nom	187.25195157581	Nominal RA [deg]
dec_nom	3.5783590437499	Nominal Dec [deg]
roll_nom	63.991177696818	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39382.399853289	Sum of GTIs [s]
livetime	38883.716193113	Livetime [s]
ontime2	39382.399853289	Sum of GTIs [s]
ontime3	39379.158863127	Sum of GTIs [s]
ontime5	39379.158893049	Sum of GTIs [s]
ontime6	39382.399853289	Sum of GTIs [s]
ontime7	39382.399853289	Sum of GTIs [s]
ontime8	39379.158902943	Sum of GTIs [s]
l2events	412153	Number of level 2 events



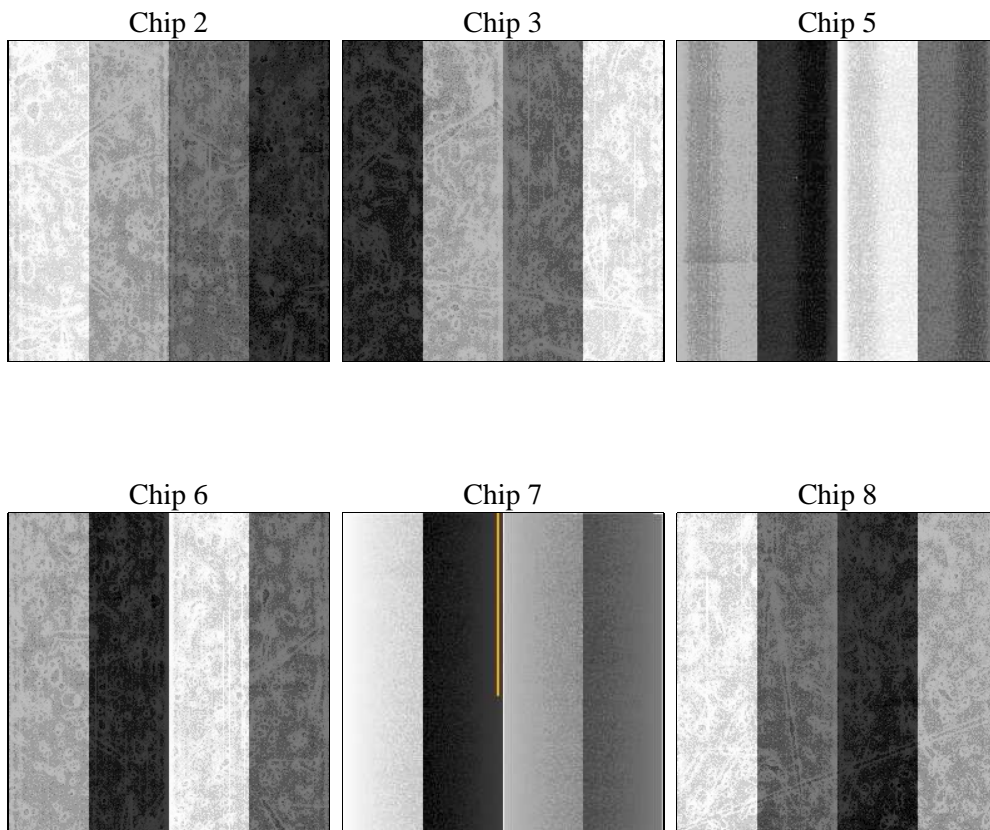
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39627.720000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39382.399853289	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	39382.399853289	Sum of GTIs [s]
date	2012-10-18T11:50:04	Date and time of file creation	ontime3	39379.158863127	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	39379.158893049	Sum of GTIs [s]
			ontime6	39382.399853289	Sum of GTIs [s]
			ontime7	39382.399853289	Sum of GTIs [s]
			ontime8	39379.158902943	Sum of GTIs [s]
			l1events	1807696	Number of level 1 events

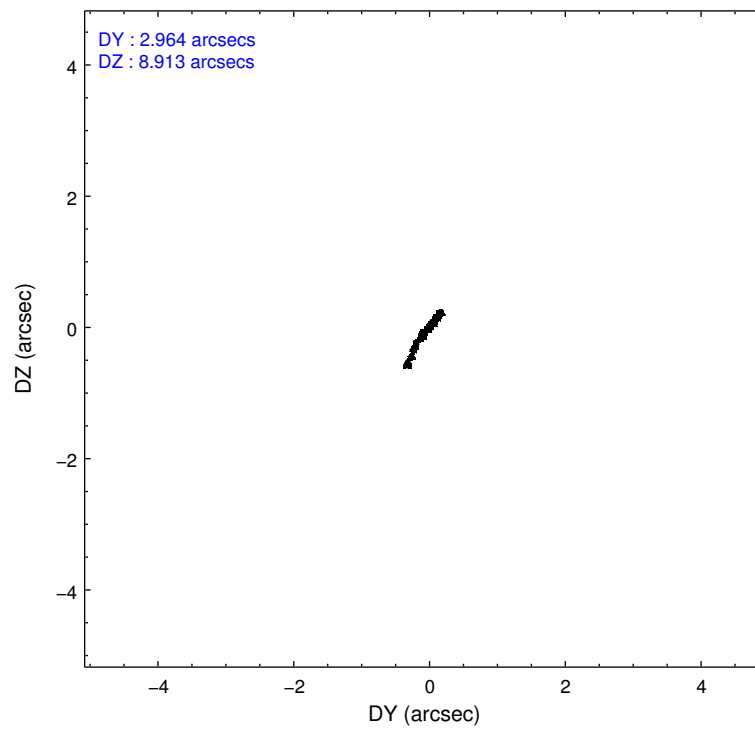
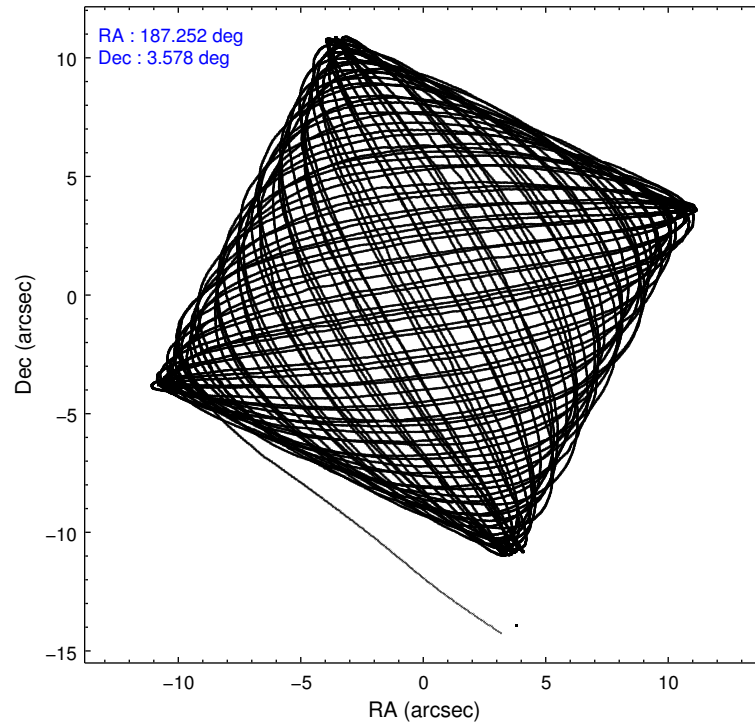
### 2.1.4 Events

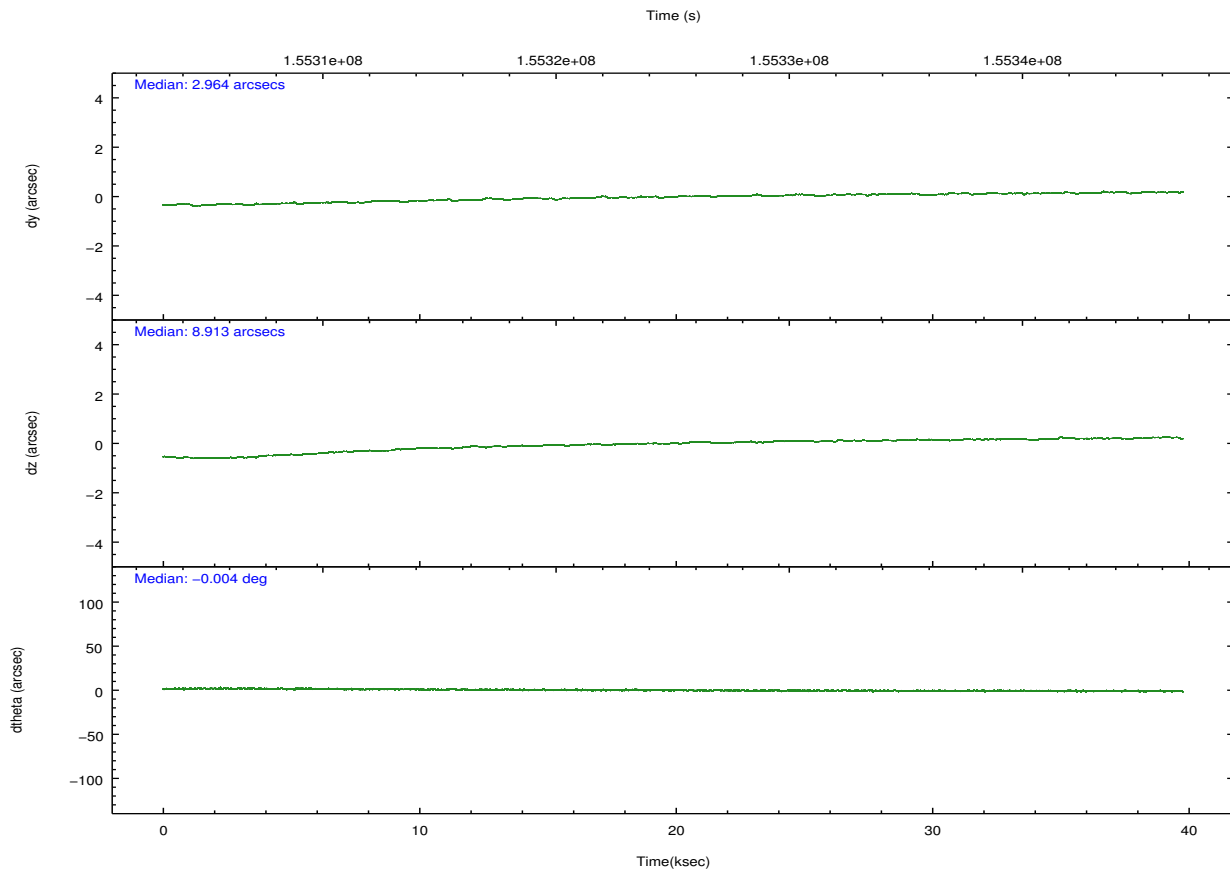
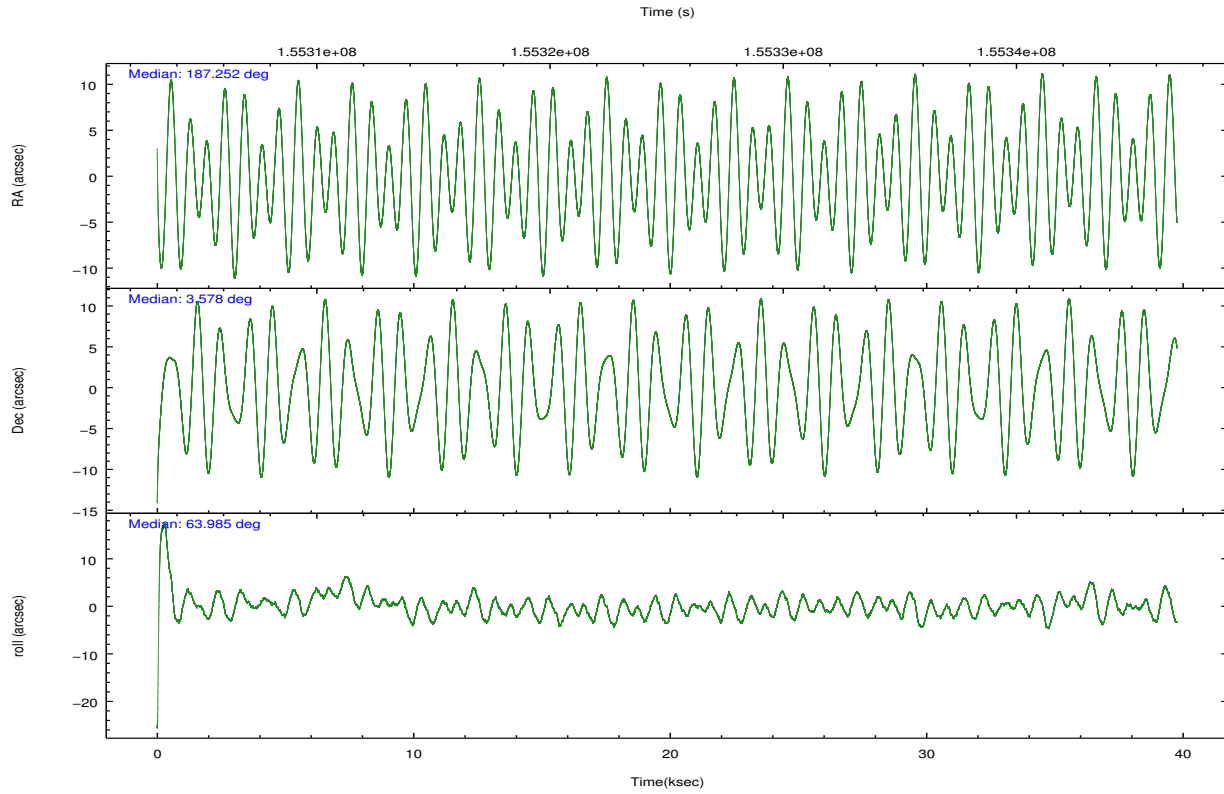
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	255685	243600	391522	258085	341044	317760	grade 0 events	14406	13052	34086	13397	15627	21131
rejected events	224877	214528	202374	226841	194846	252508		5%	5%	8%	5%	4%	6%
rejected %	87%	88%	51%	87%	57%	79%	grade 1 events	162	136	3300	122	309	191
								0%	0%	0%	0%	0%	0%
							grade 2 events	5838	5337	52002	6233	28942	14153
								2%	2%	13%	2%	8%	4%
							grade 3 events	2843	2812	7362	2910	13344	6813
								1%	1%	1%	1%	3%	2%
							grade 4 events	2914	2851	6771	2871	13088	6411
								1%	1%	1%	1%	3%	2%
							grade 5 events	9666	10702	28009	11272	32277	14527
								3%	4%	7%	4%	9%	4%
							grade 6 events	4810	5024	88960	5833	75207	16748
								1%	2%	22%	2%	22%	5%
							grade 7 events	215046	203686	171032	215447	162250	237786
								84%	83%	43%	83%	47%	74%

## 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	187.254229	187.2519515758117	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.551240	3.578359043749922	Alternating exposures requested	N	N
[deg] Pointing Roll	63.834416	63.99117769681795	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	155305267.184000	155304207.05201			
Observation start date	2002-12-03T12:20:03	2002-12-03T12:03:27			
[s] Observation end time (MET)	155344895.184000	155345209.10372			
Observation end date	2002-12-03T23:20:31	2002-12-03T23:26:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect



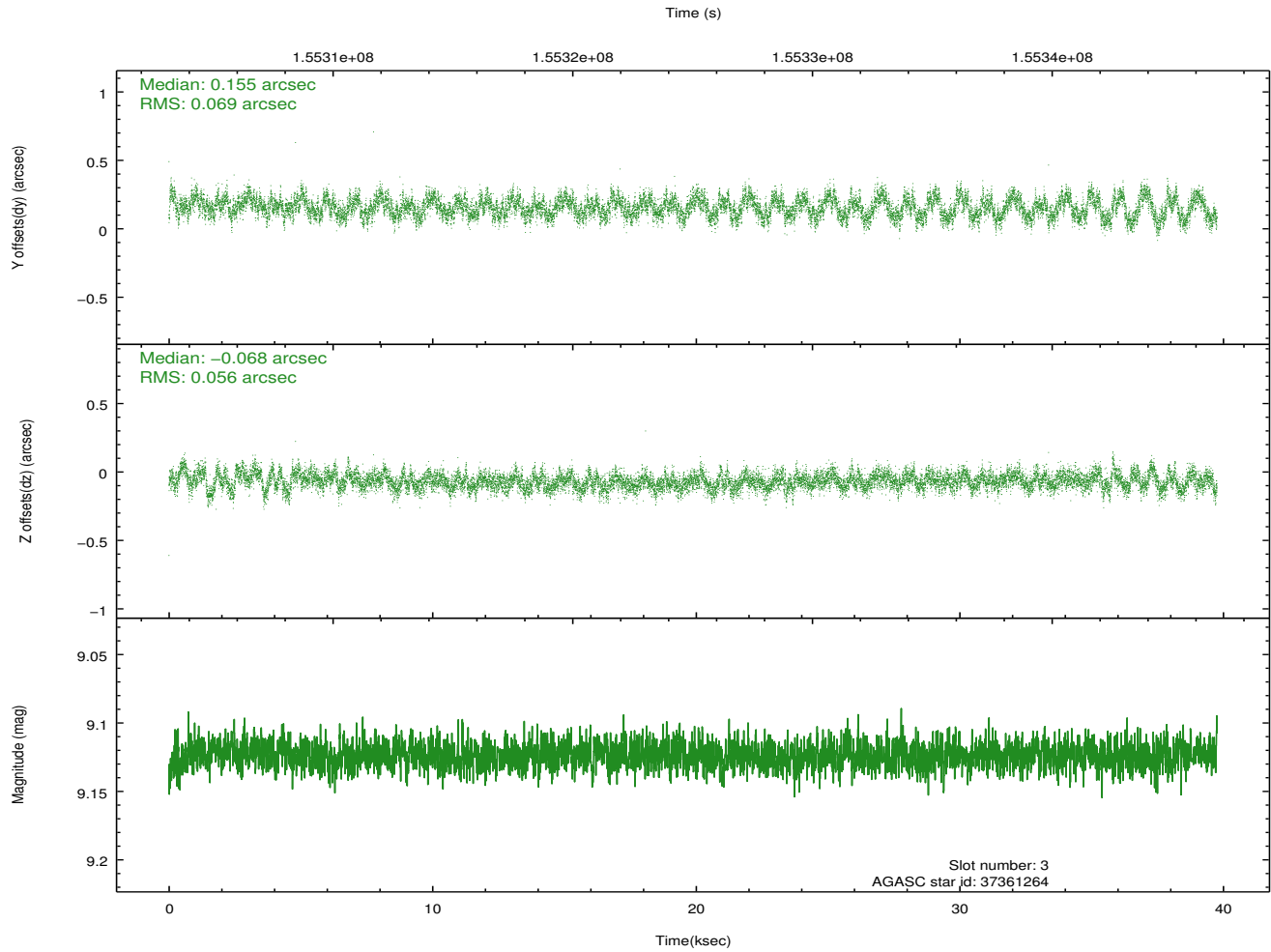
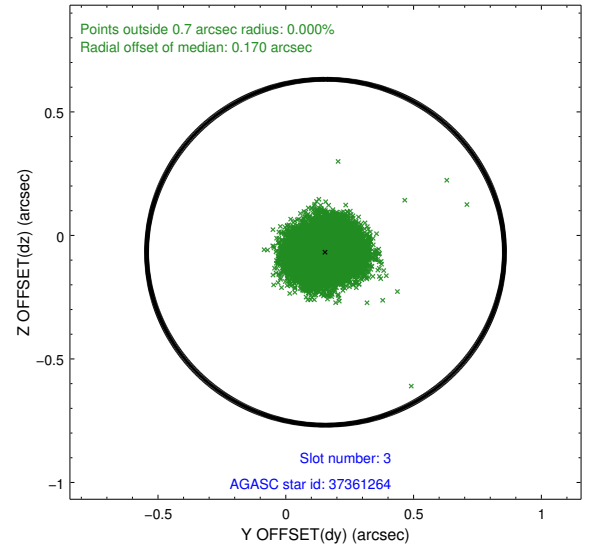
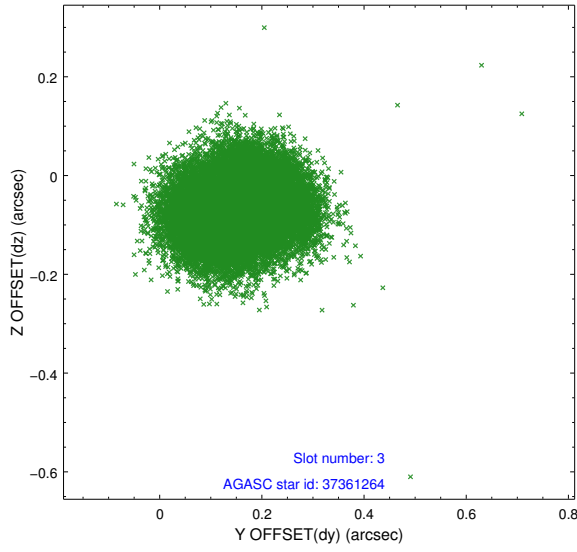


### Slot Statistics

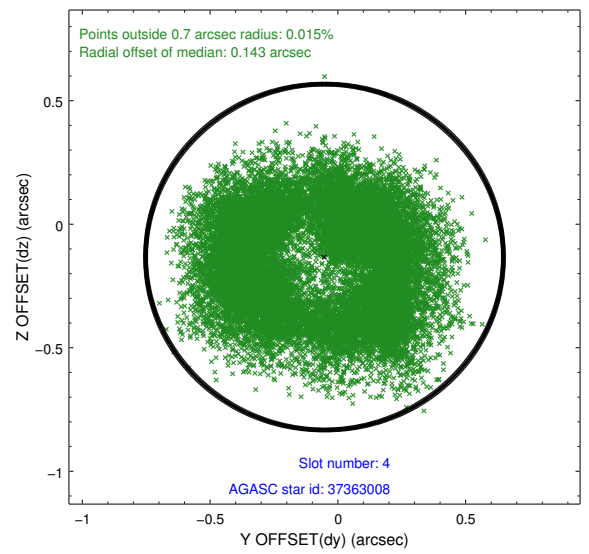
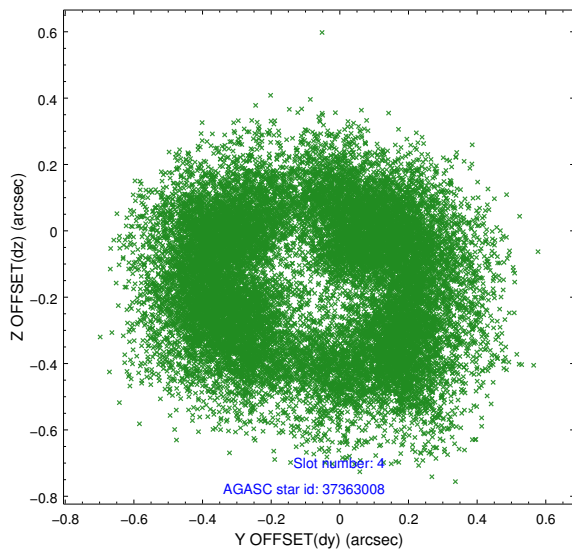
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9697	-0.024	-0.010	0.009	0.015	0.000000	0.000000	-755.59	-1730.07
1	FID	ACIS-S-4	7.20	9696	0.005	0.014	0.012	0.027	0.000000	0.000000	2157.71	178.42
2	FID	ACIS-S-5	7.24	9697	-0.011	0.004	0.009	0.016	0.000000	0.000000	-1808.39	172.10
3	GUIDE	37361264	9.12	19381	0.155	-0.068	0.097	0.147	187.071456	3.270817	-1196.17	144.67
4	GUIDE	37363008	9.73	19385	-0.052	-0.133	0.353	0.488	187.186016	4.024063	1418.73	970.90
5	GUIDE	37363176	10.08	19377	0.201	0.109	0.206	0.329	187.349750	3.163657	-1101.17	-923.04
6	GUIDE	37357392	8.19	19393	-0.094	0.005	0.109	0.155	187.068134	3.697099	175.67	832.00
7	GUIDE	38279600	9.12	19383	-0.179	0.116	0.113	0.180	188.016310	3.893520	2313.48	-1911.92

## 2.4 Star Slots

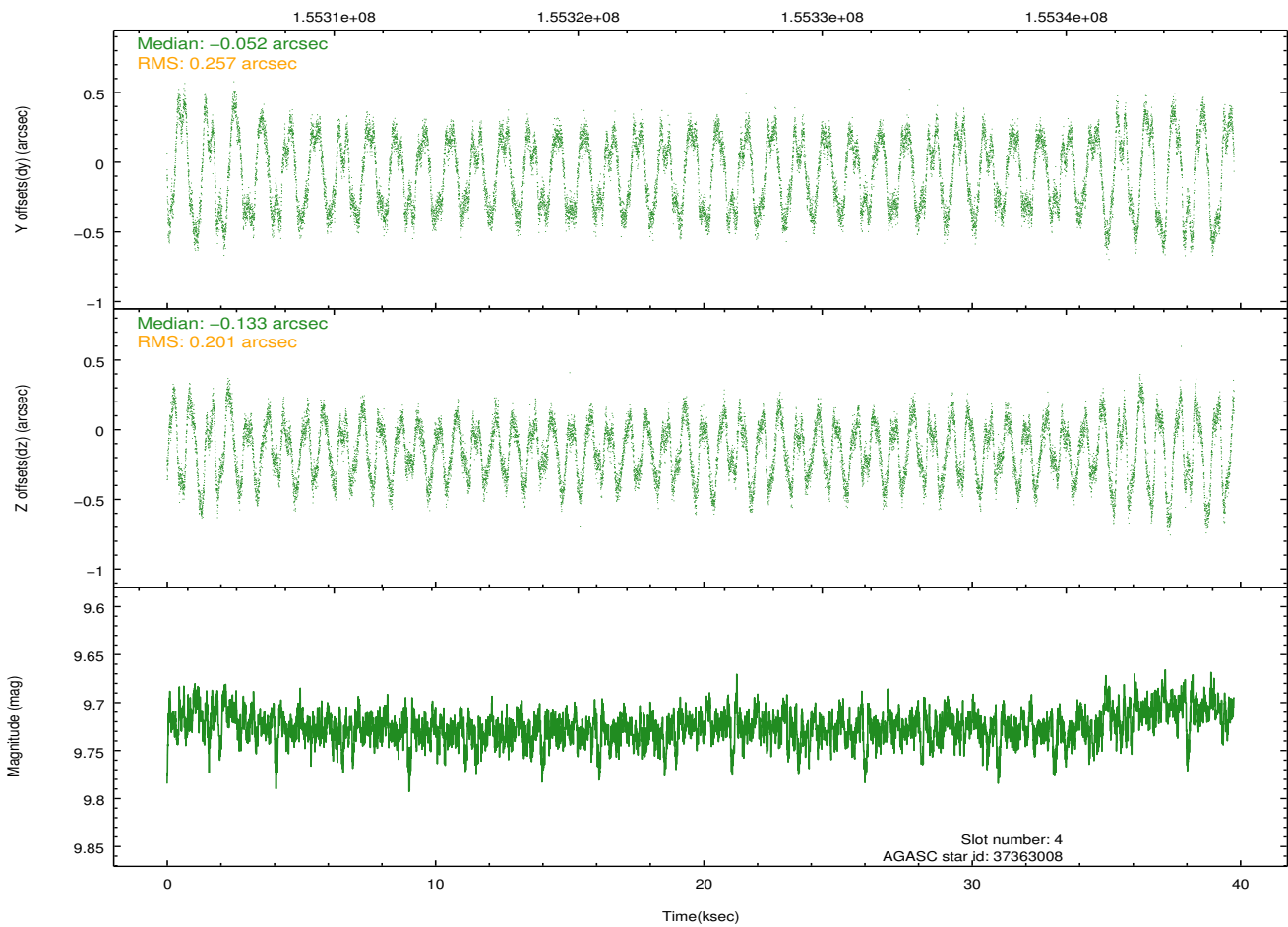
### 2.4.1 Slot 3



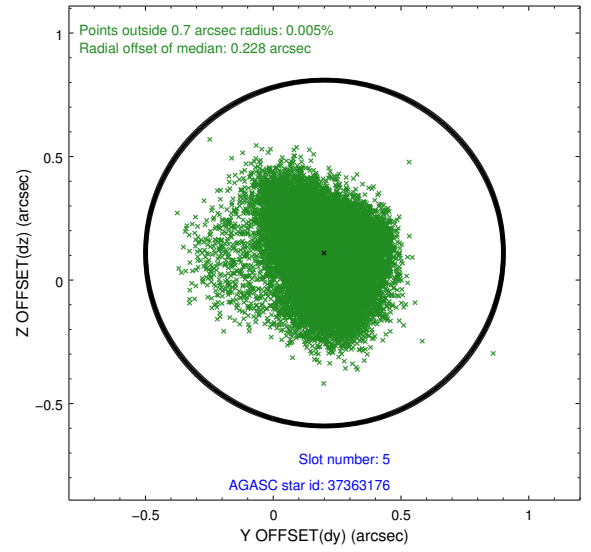
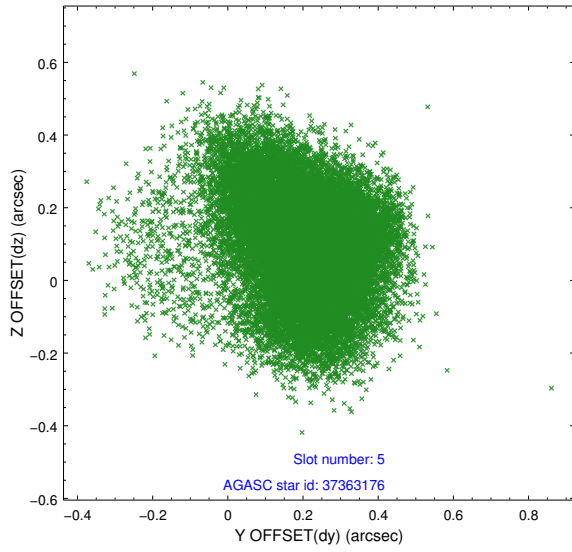
## 2.4.2 Slot 4



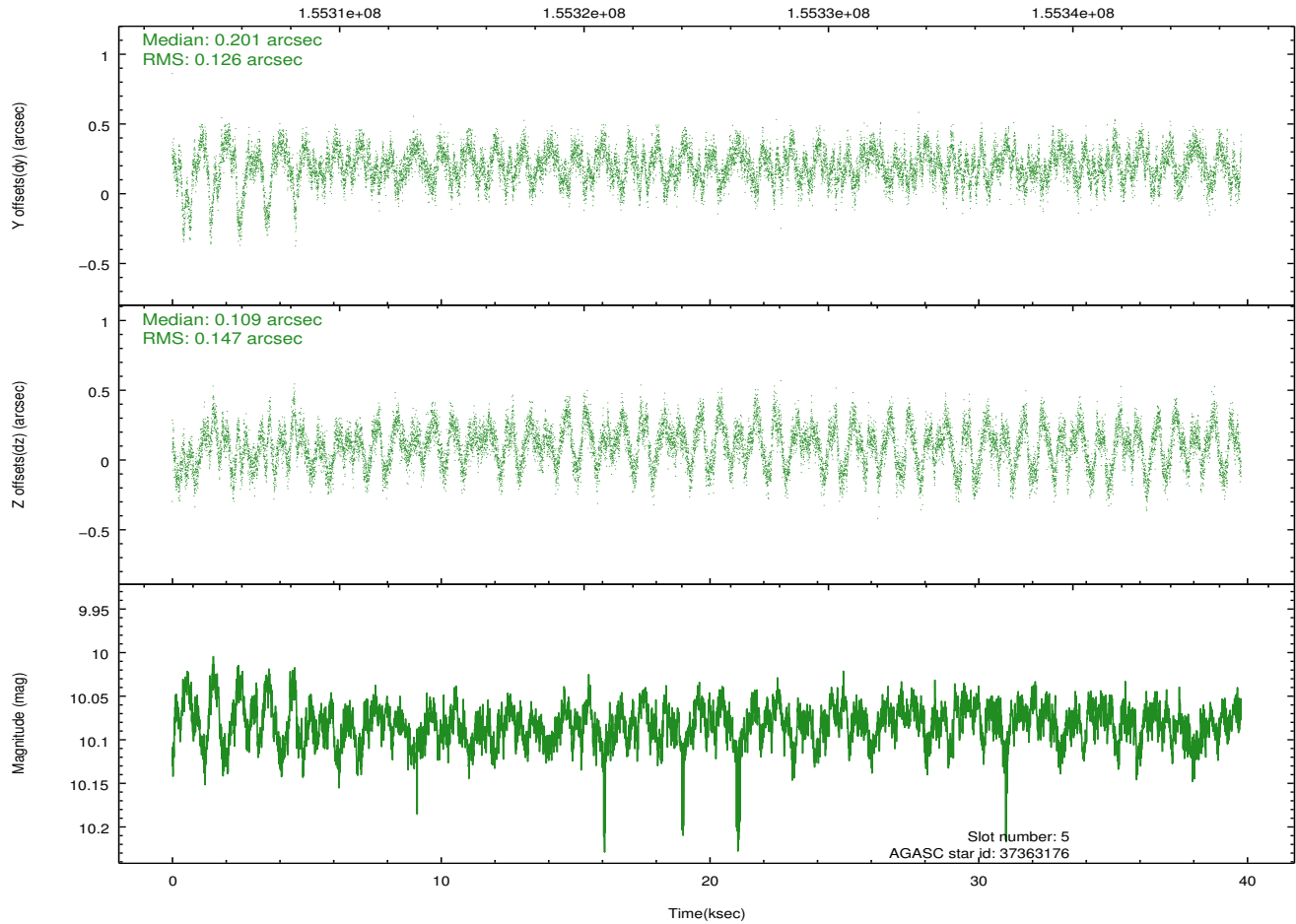
Time (s)



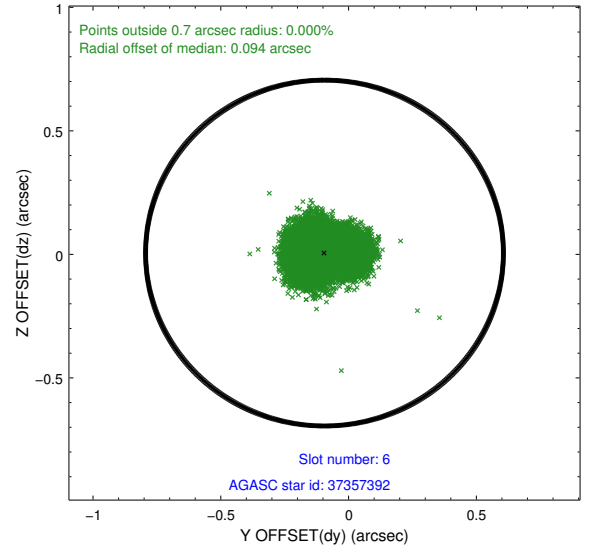
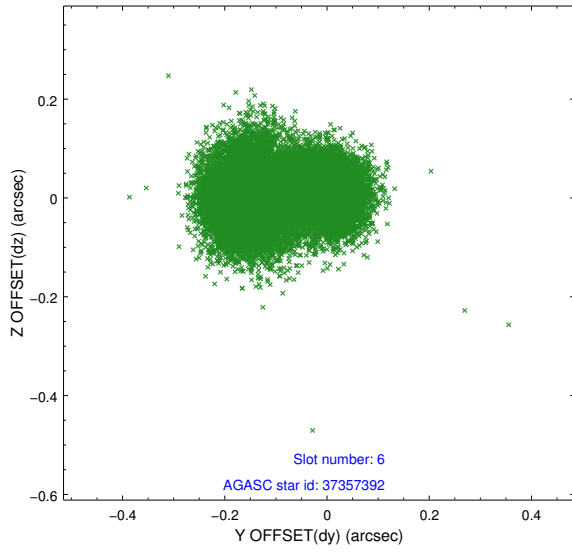
### 2.4.3 Slot 5



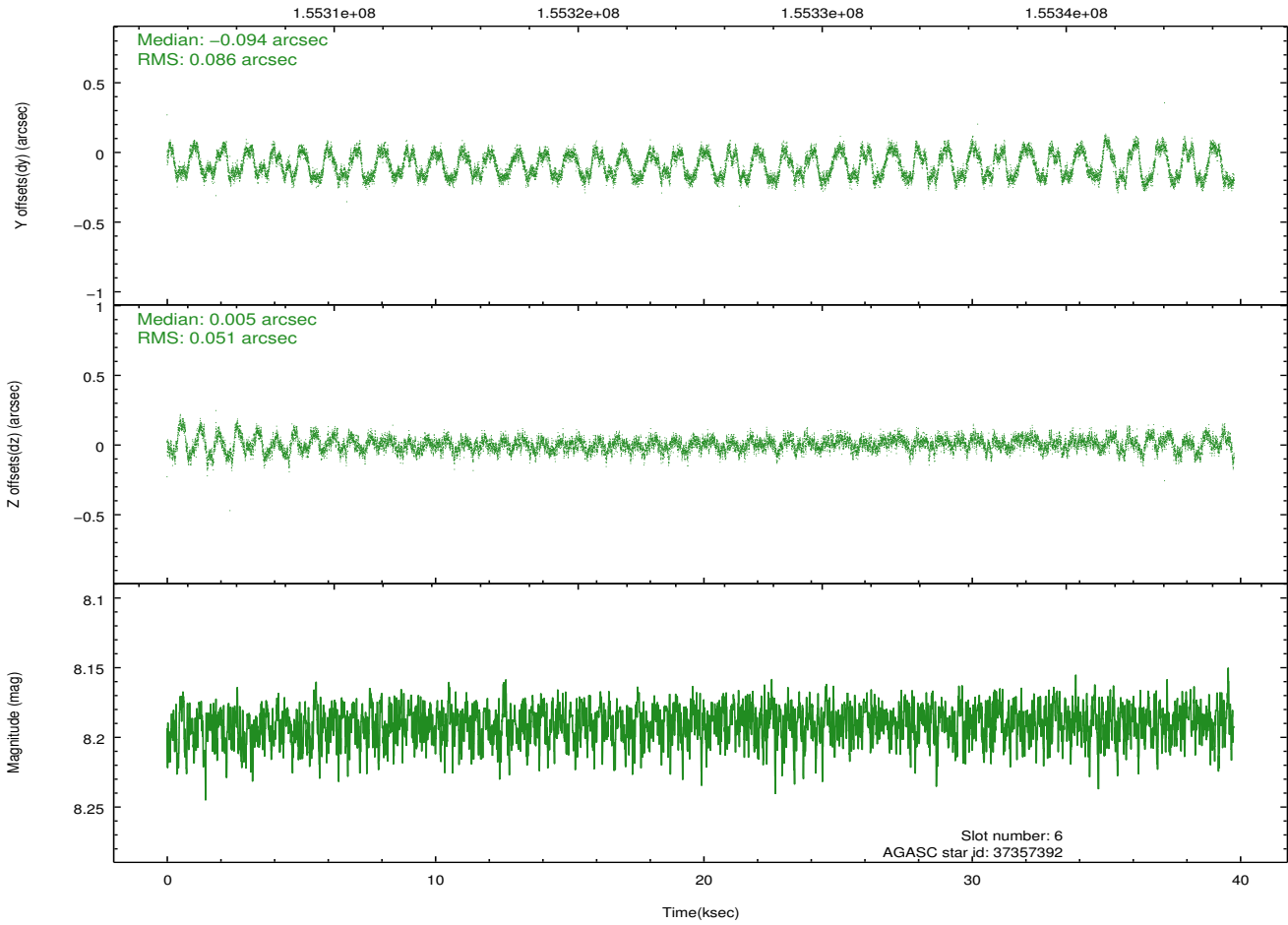
Time (s)



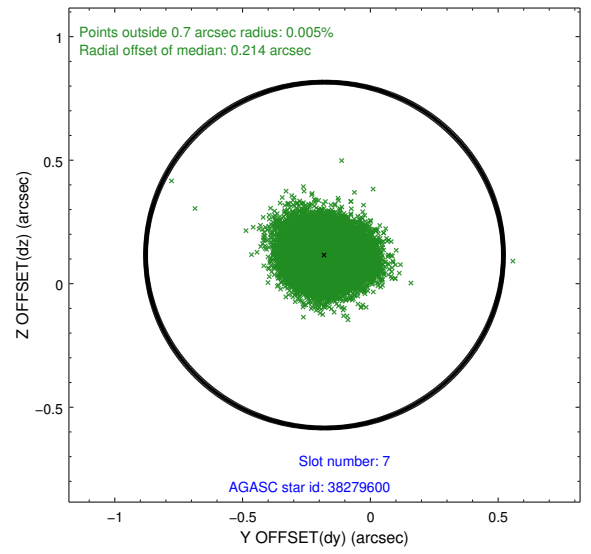
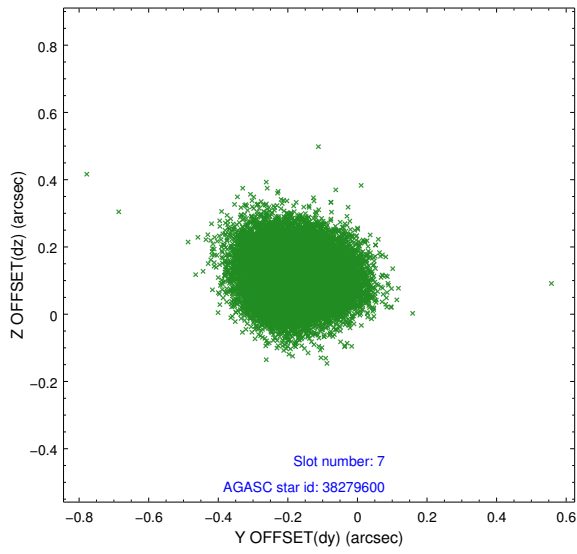
## 2.4.4 Slot 6



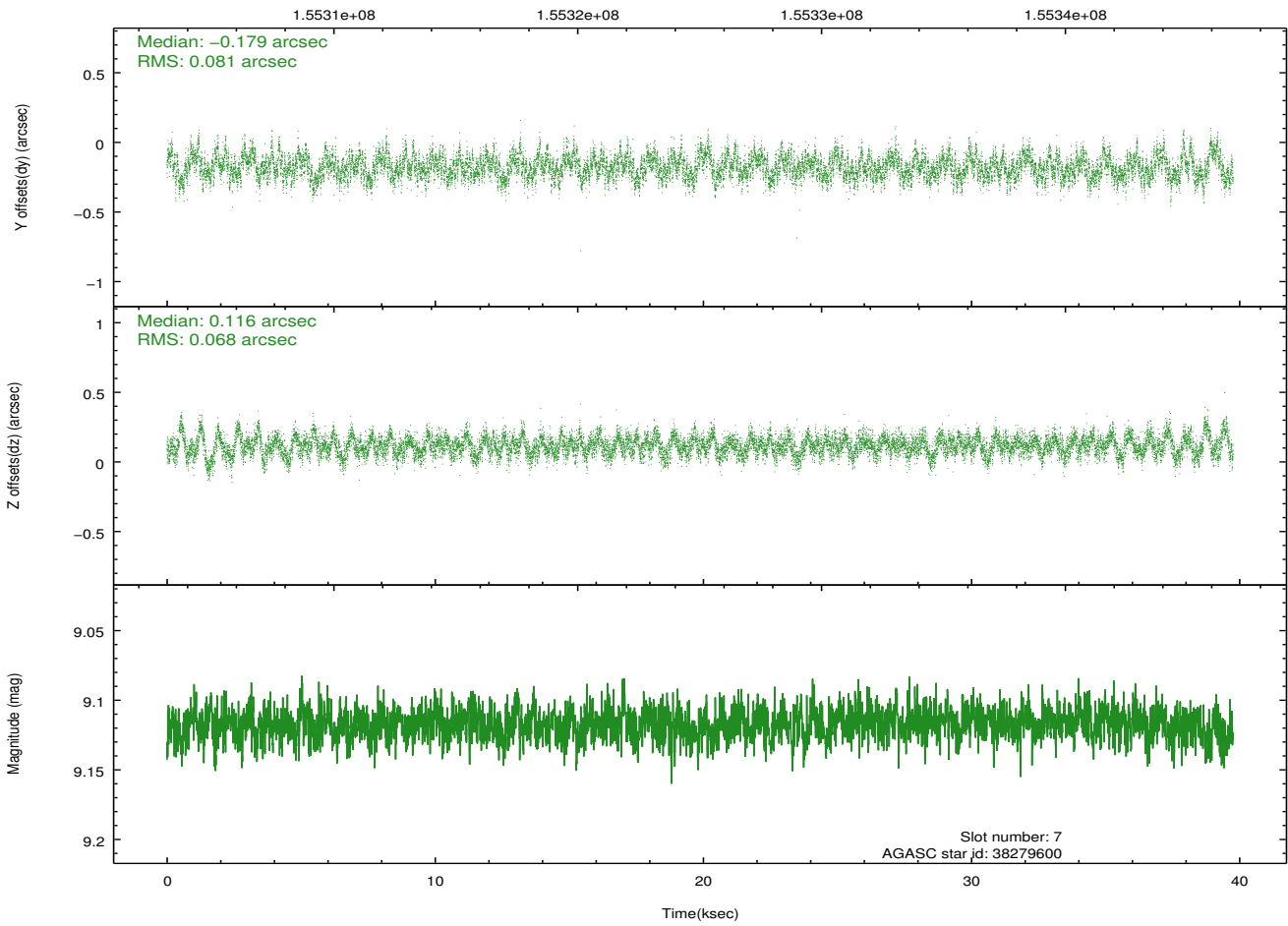
Time (s)



## 2.4.5 Slot 7

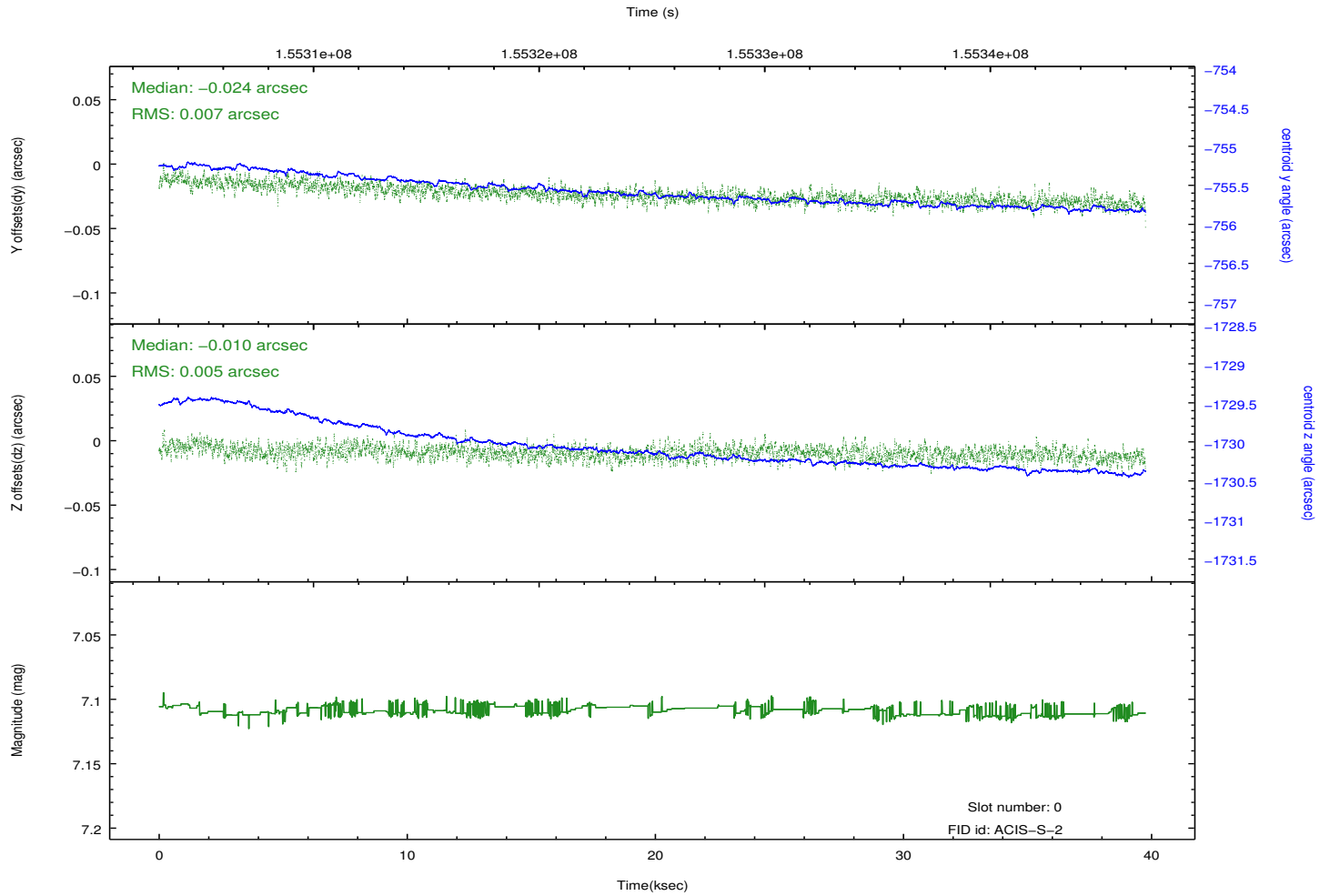
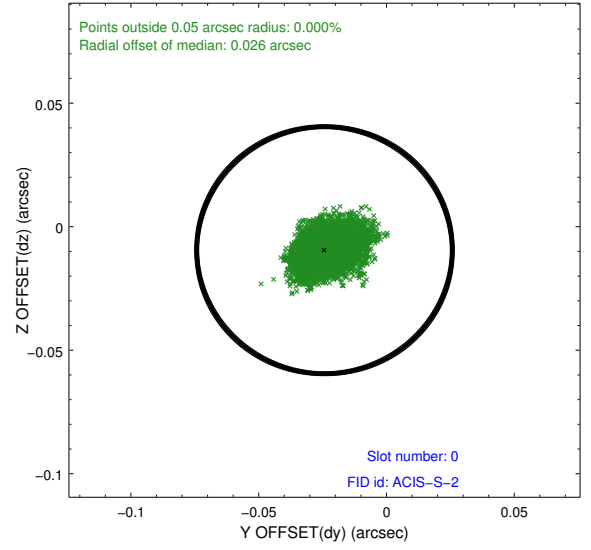
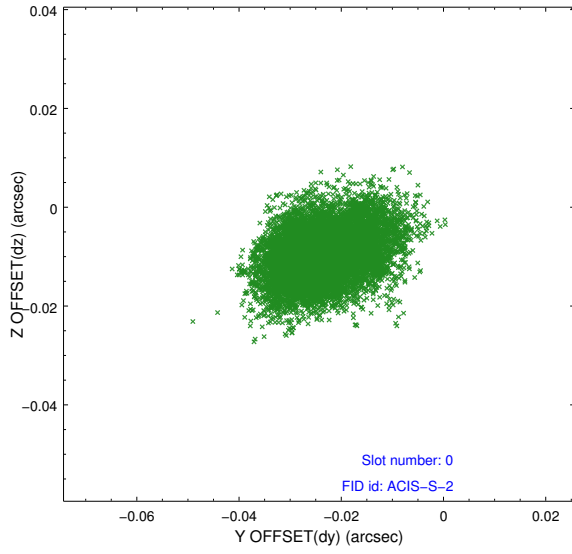


Time (s)

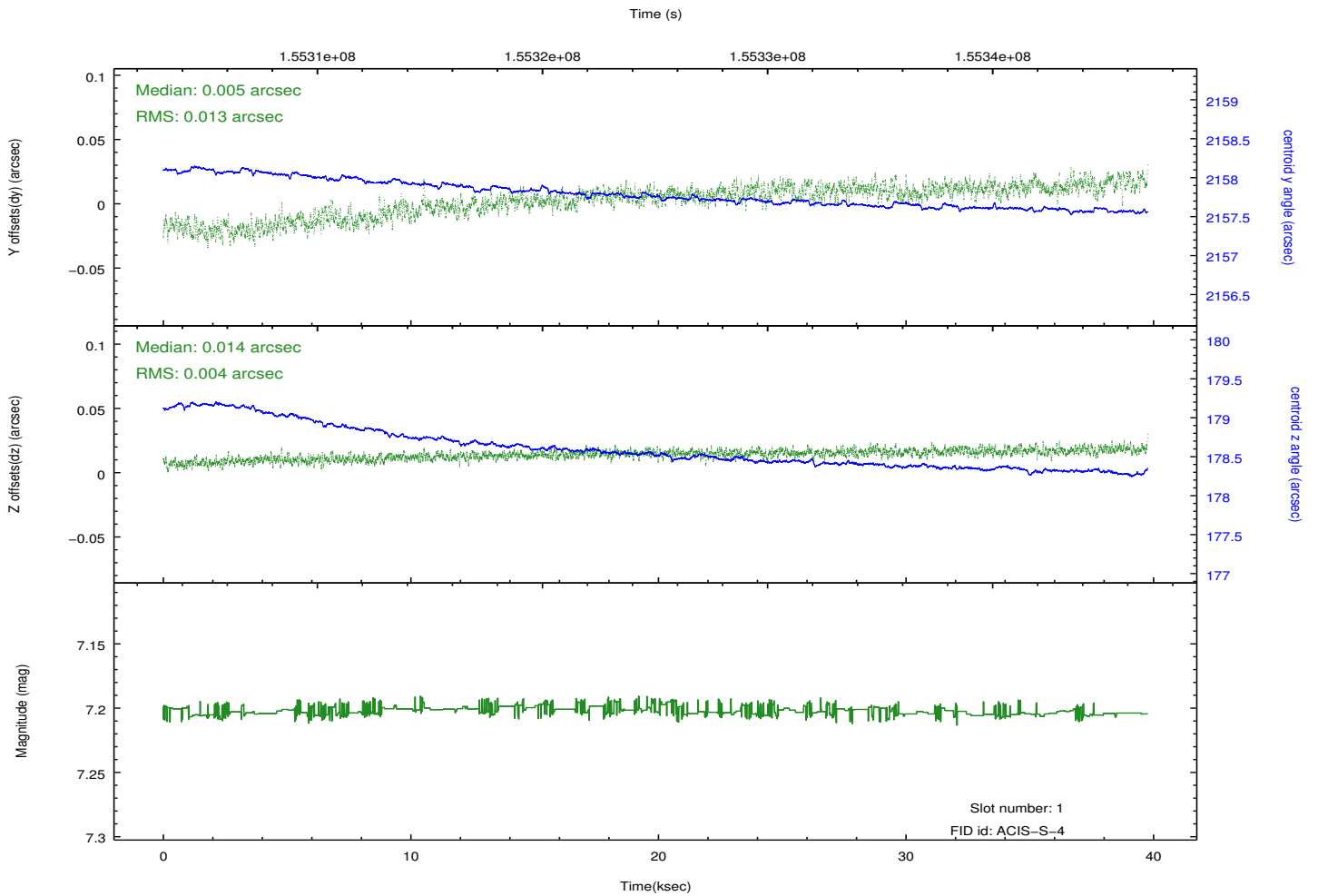
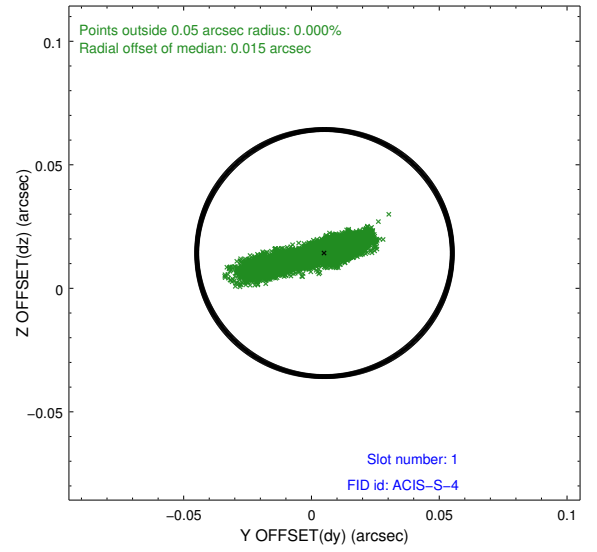
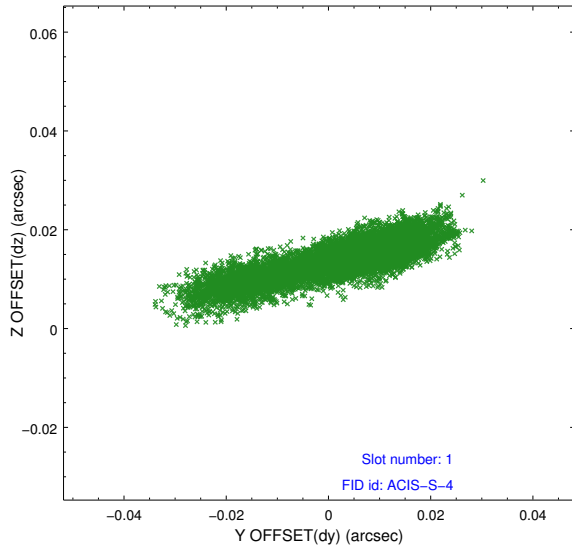


## 2.5 FID Slots

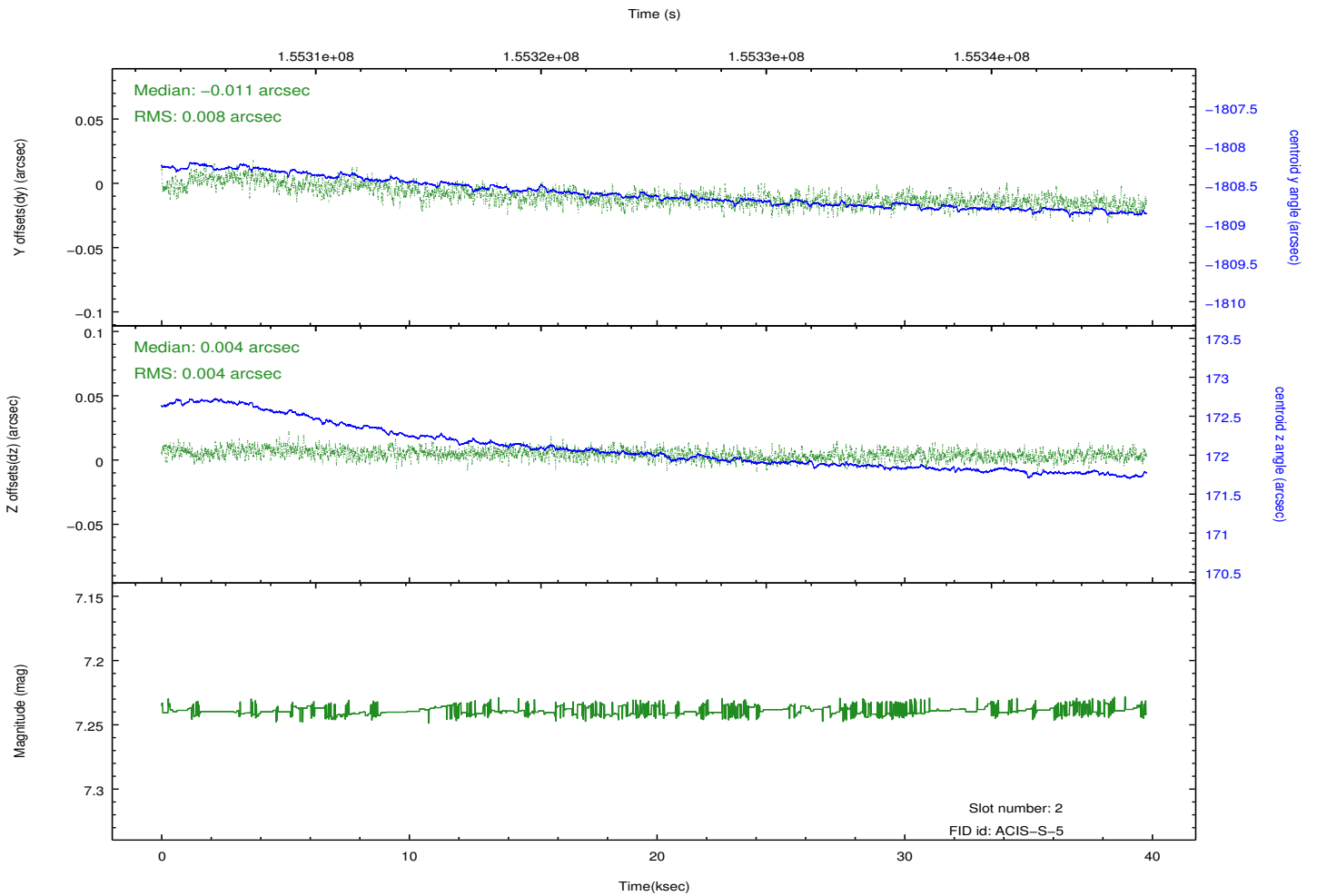
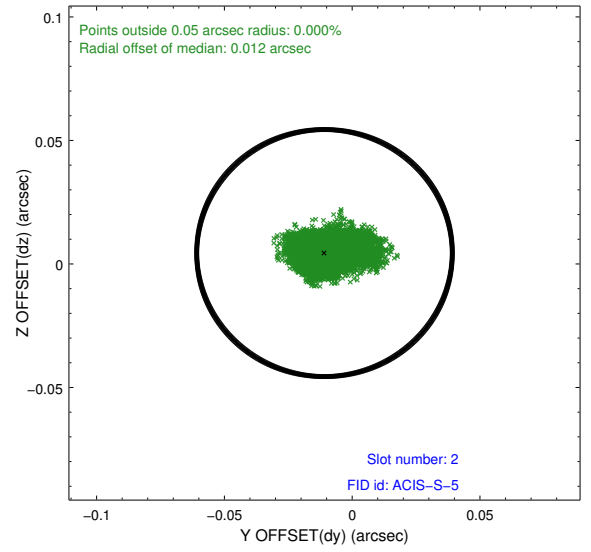
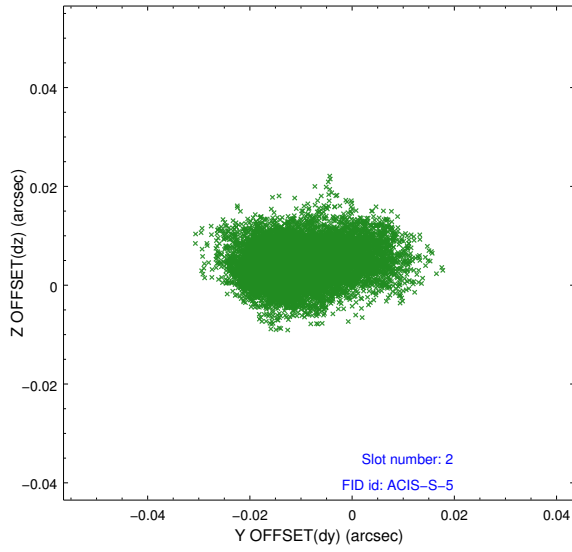
### 2.5.1 Slot 0



## 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)	2012.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.385

## A.2 Comments