

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1833 - L2 Version 4  
Chandra X-Ray Center

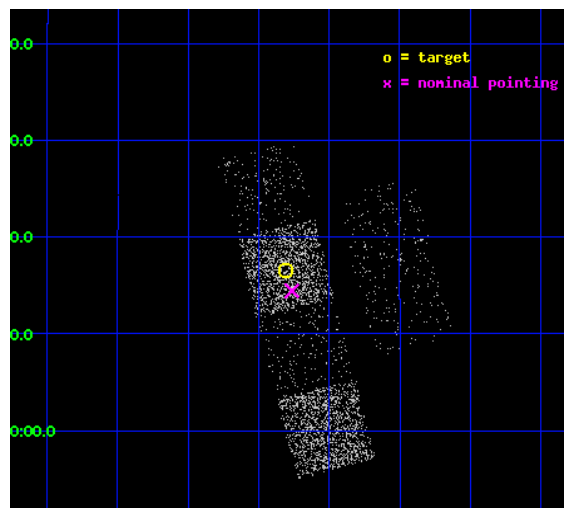
L2 Processing Date : Aug 31 2012

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# 1 Front

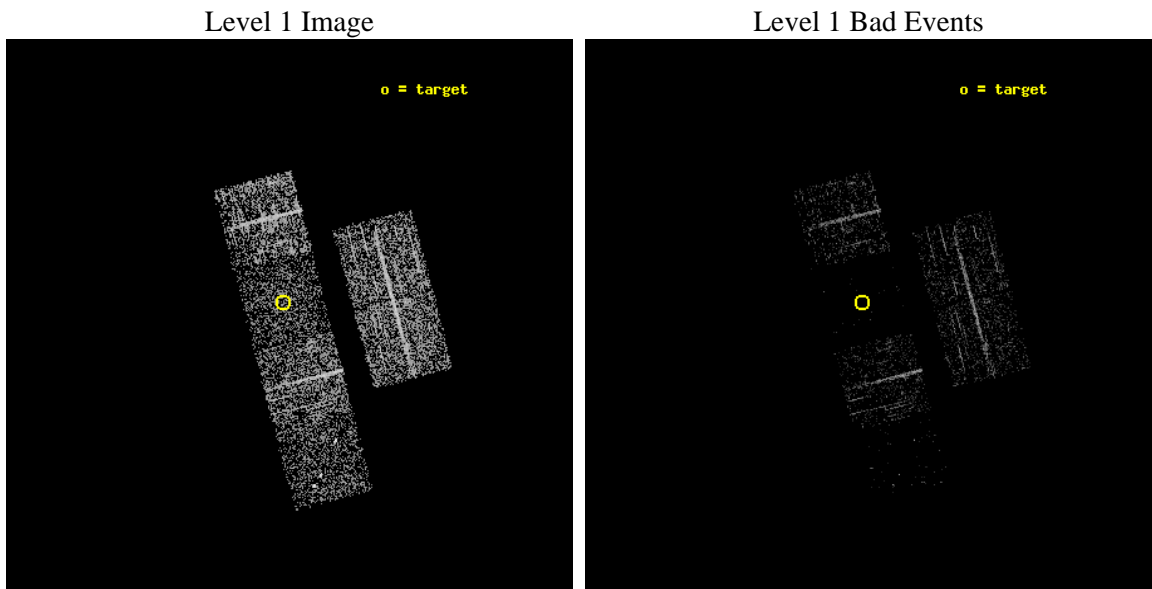
seq_num	100018	Sequence number
obs_id	1833	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.7028	Observer's specified target RA [deg]
dec_targ	10.27657	Observer's specified target Dec [deg]
ra_nom	182.69113018248	Nominal RA [deg]
dec_nom	10.240754037896	Nominal Dec [deg]
roll_nom	255.47093578558	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1187.2000010908	Sum of GTIs [s]
livetime	1172.1669598309	Livetime [s]
ontime2	1187.2000010908	Sum of GTIs [s]
ontime3	1187.2000010908	Sum of GTIs [s]
ontime5	1187.2000010908	Sum of GTIs [s]
ontime6	1187.2000010908	Sum of GTIs [s]
ontime7	1187.2000010908	Sum of GTIs [s]
ontime8	1187.2000010908	Sum of GTIs [s]
l2events	3712	Number of level 2 events



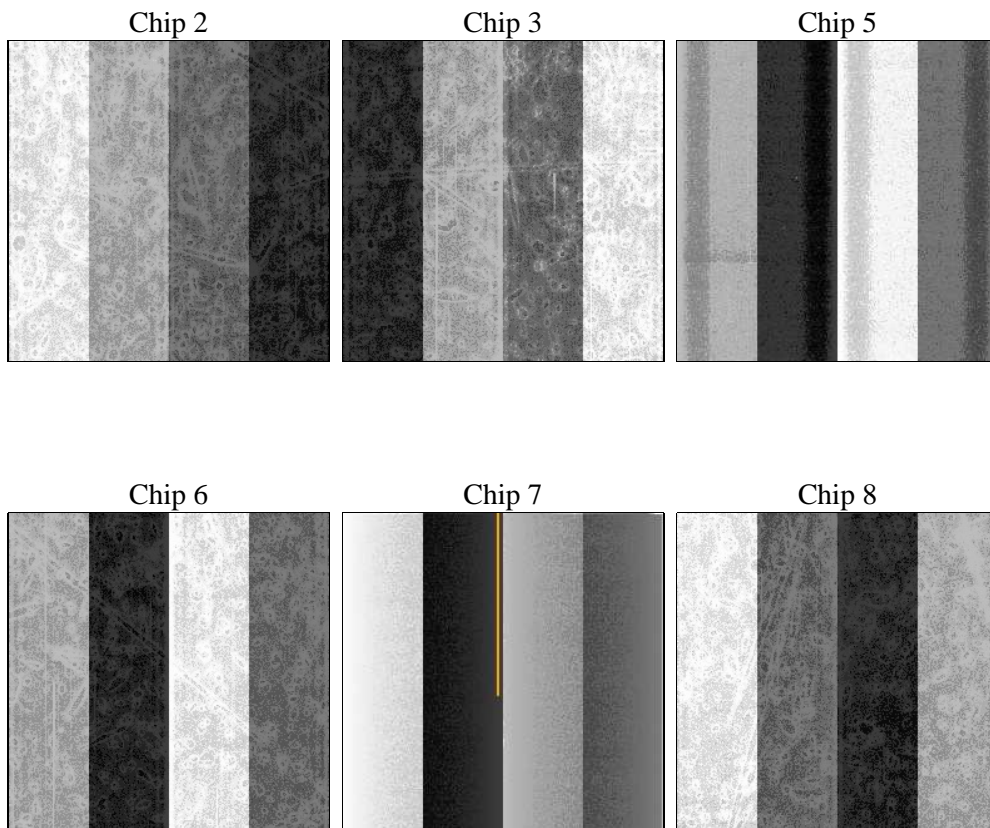
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1270.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1187.2000010908	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	1187.2000010908	Sum of GTIs [s]
date	2012-08-31T12:13:03	Date and time of file creation	ontime3	1187.2000010908	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1187.2000010908	Sum of GTIs [s]
			ontime6	1187.2000010908	Sum of GTIs [s]
			ontime7	1187.2000010908	Sum of GTIs [s]
			ontime8	1187.2000010908	Sum of GTIs [s]
			l1events	27562	Number of level 1 events

### 2.1.4 Events

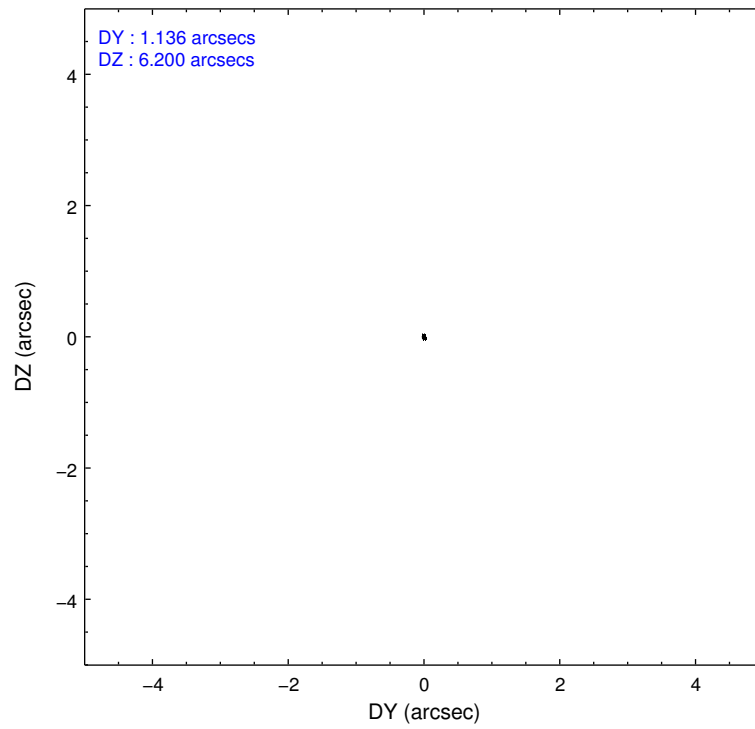
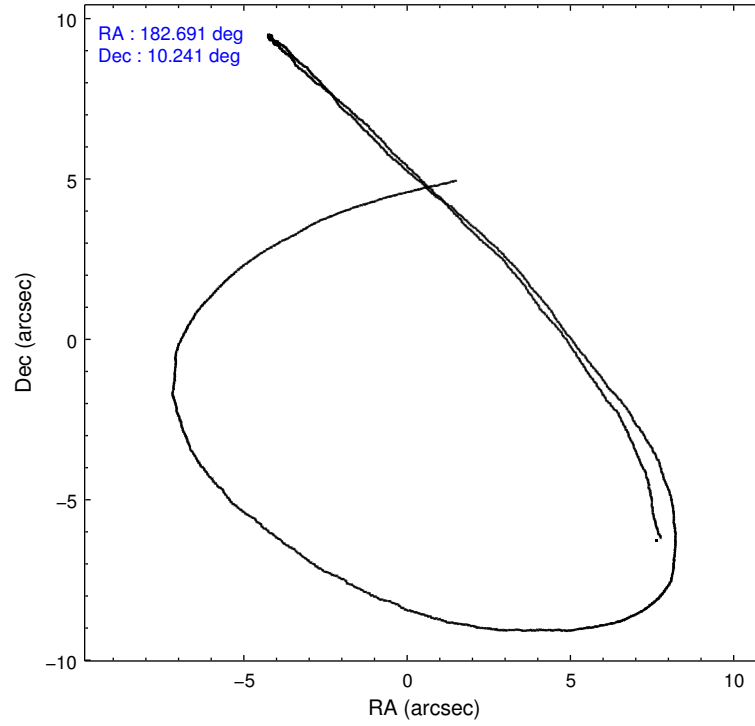
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	5720	5667	2660	5121	2133	6261
rejected events	5513	5483	703	4879	483	5369
rejected %	96%	96%	26%	95%	22%	85%

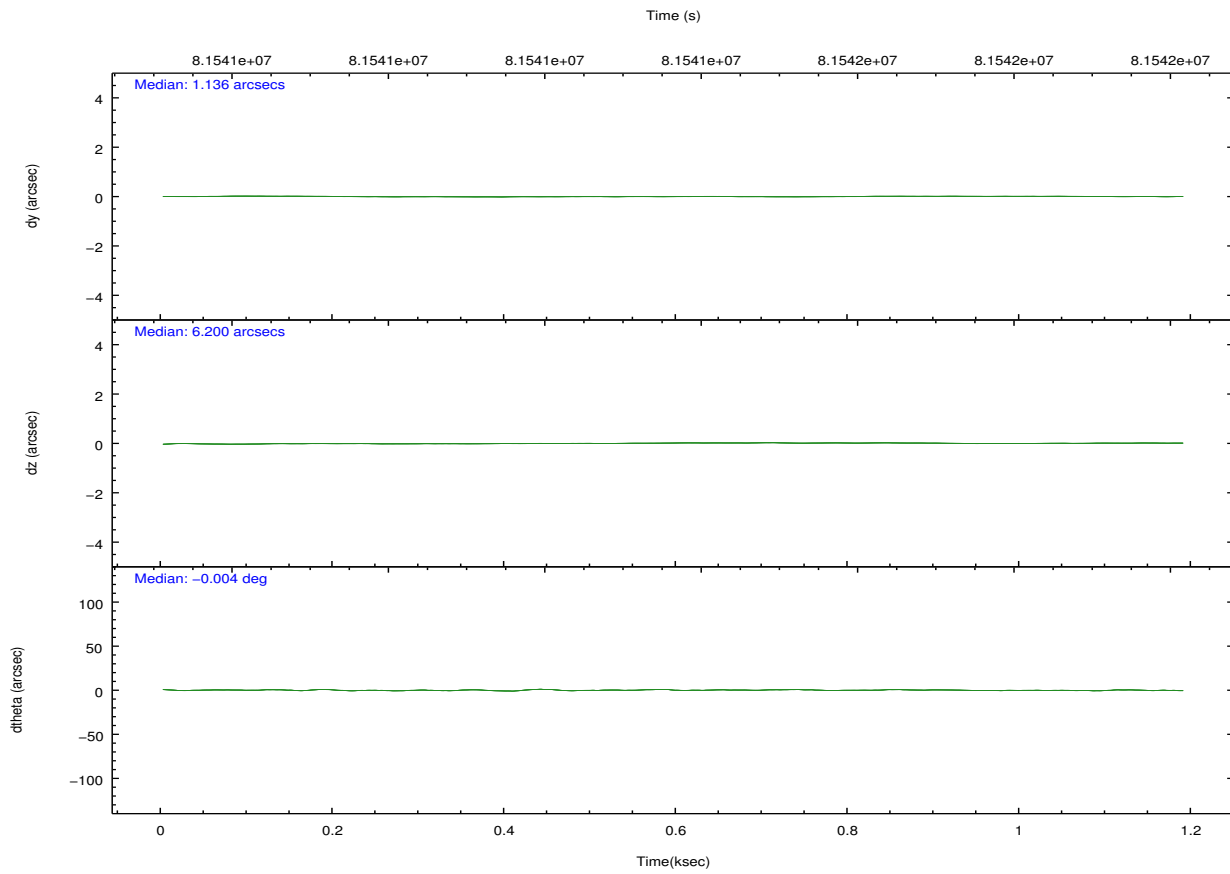
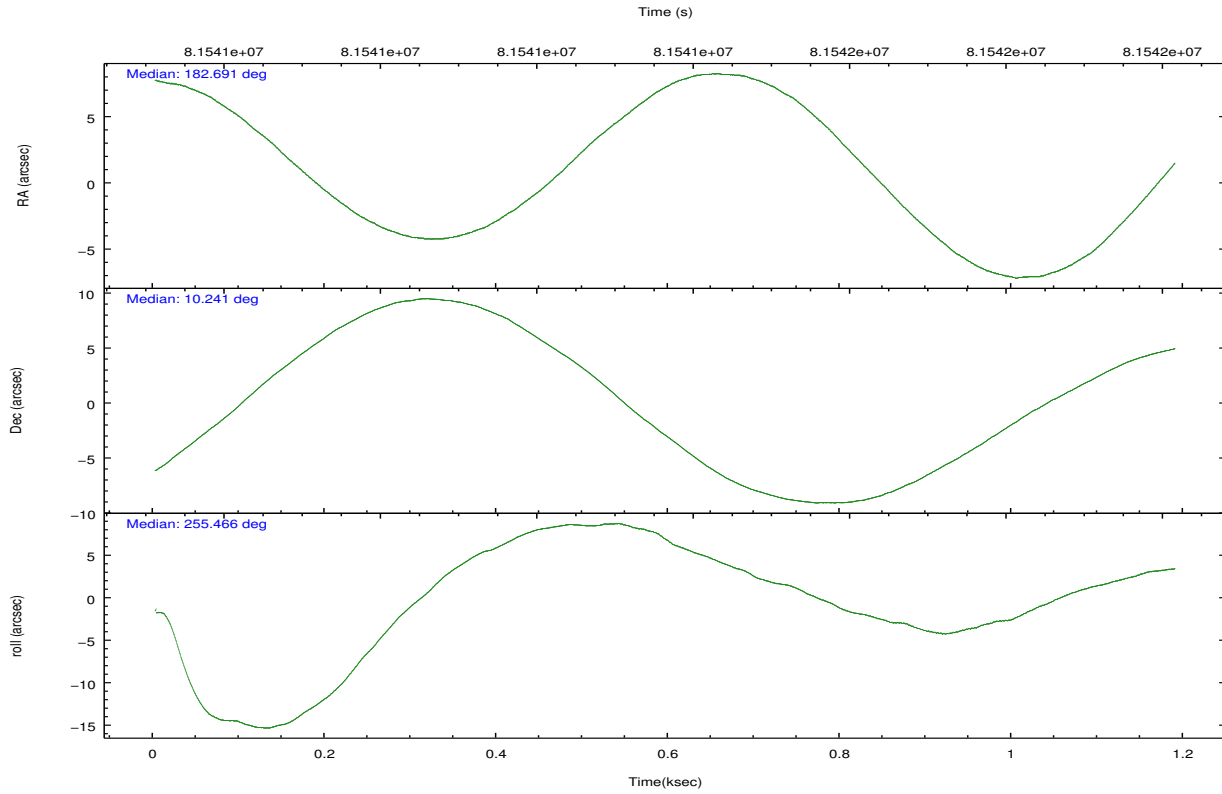
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	116	140	1114	161	616	378
	2%	2%	41%	3%	28%	6%
grade 1 events	1	3	16	3	3	6
	0%	0%	0%	0%	0%	0%
grade 2 events	50	22	663	40	529	216
	0%	0%	24%	0%	24%	3%
grade 3 events	36	32	185	35	231	137
	0%	0%	6%	0%	10%	2%
grade 4 events	26	31	189	34	232	111
	0%	0%	7%	0%	10%	1%
grade 5 events	4	4	46	1	21	18
	0%	0%	1%	0%	0%	0%
grade 6 events	24	14	238	14	369	305
	0%	0%	8%	0%	17%	4%
grade 7 events	5463	5421	209	4833	132	5090
	95%	95%	7%	94%	6%	81%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	182.683790	182.6911301824801	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.266997	10.24075403789579	Alternating exposures requested	N	N
[deg] Pointing Roll	255.315697	255.4709357855821	[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)	81540690.184000	81540584.453839			
Observation start date	2000-08-01T18:10:26	2000-08-01T18:09:44			
[s] Observation end time (MET)	81541960.184000	81542094.27889501			
Observation end date	2000-08-01T18:31:36	2000-08-01T18:34:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



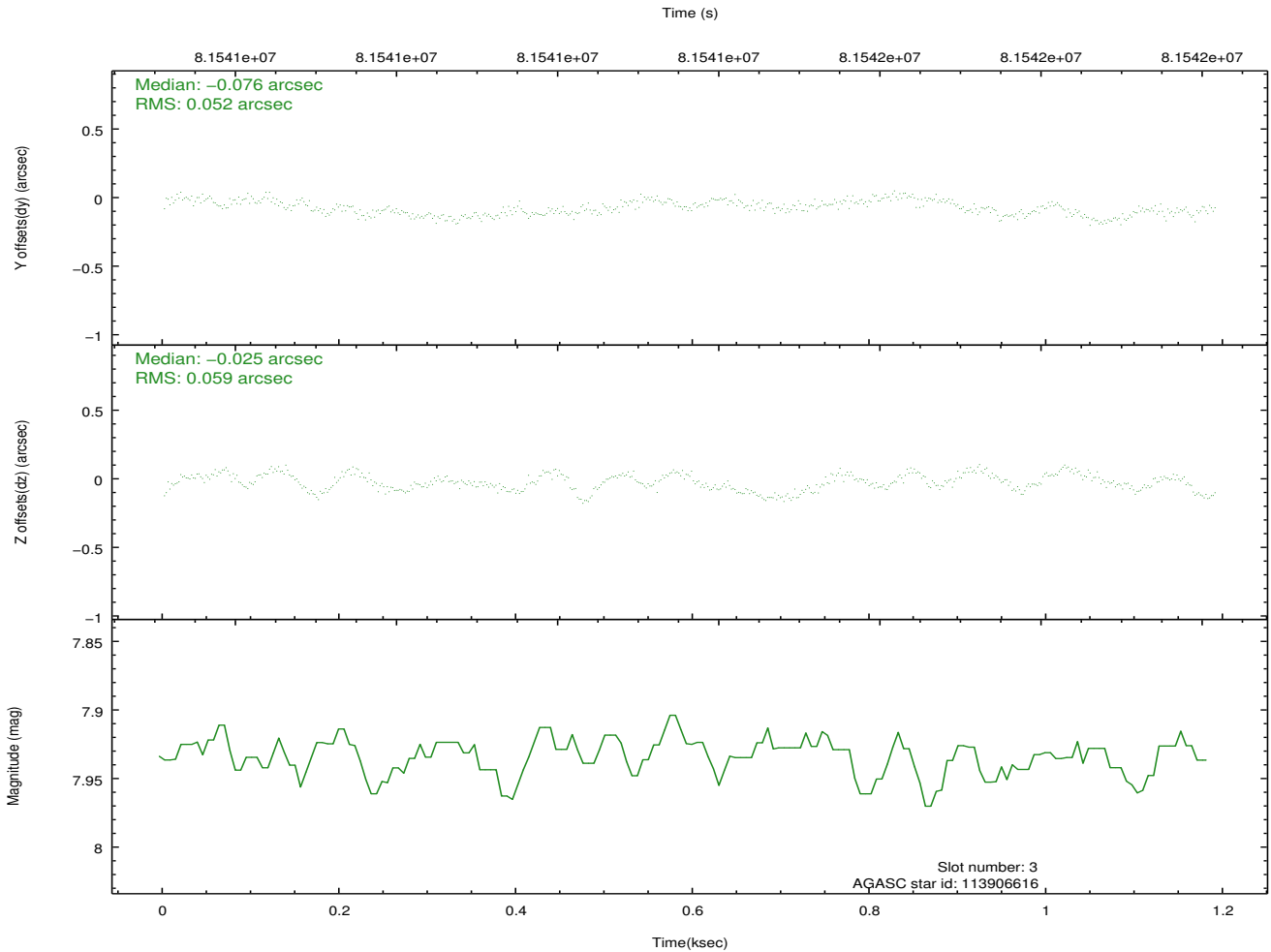
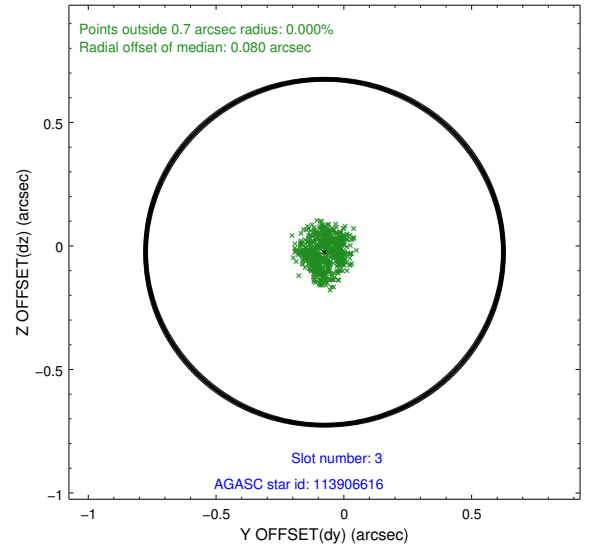
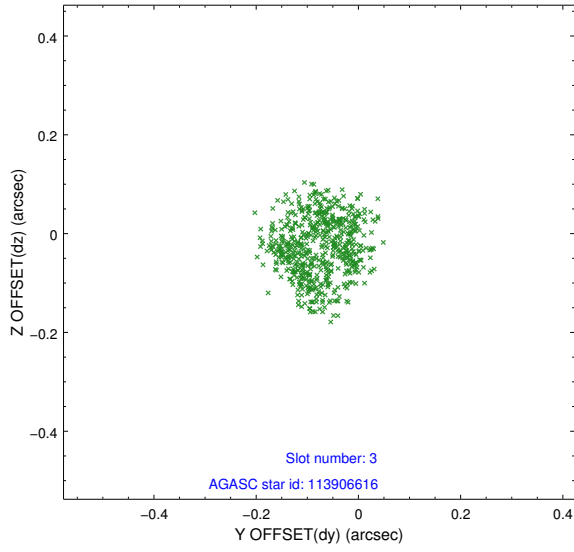


### Slot Statistics

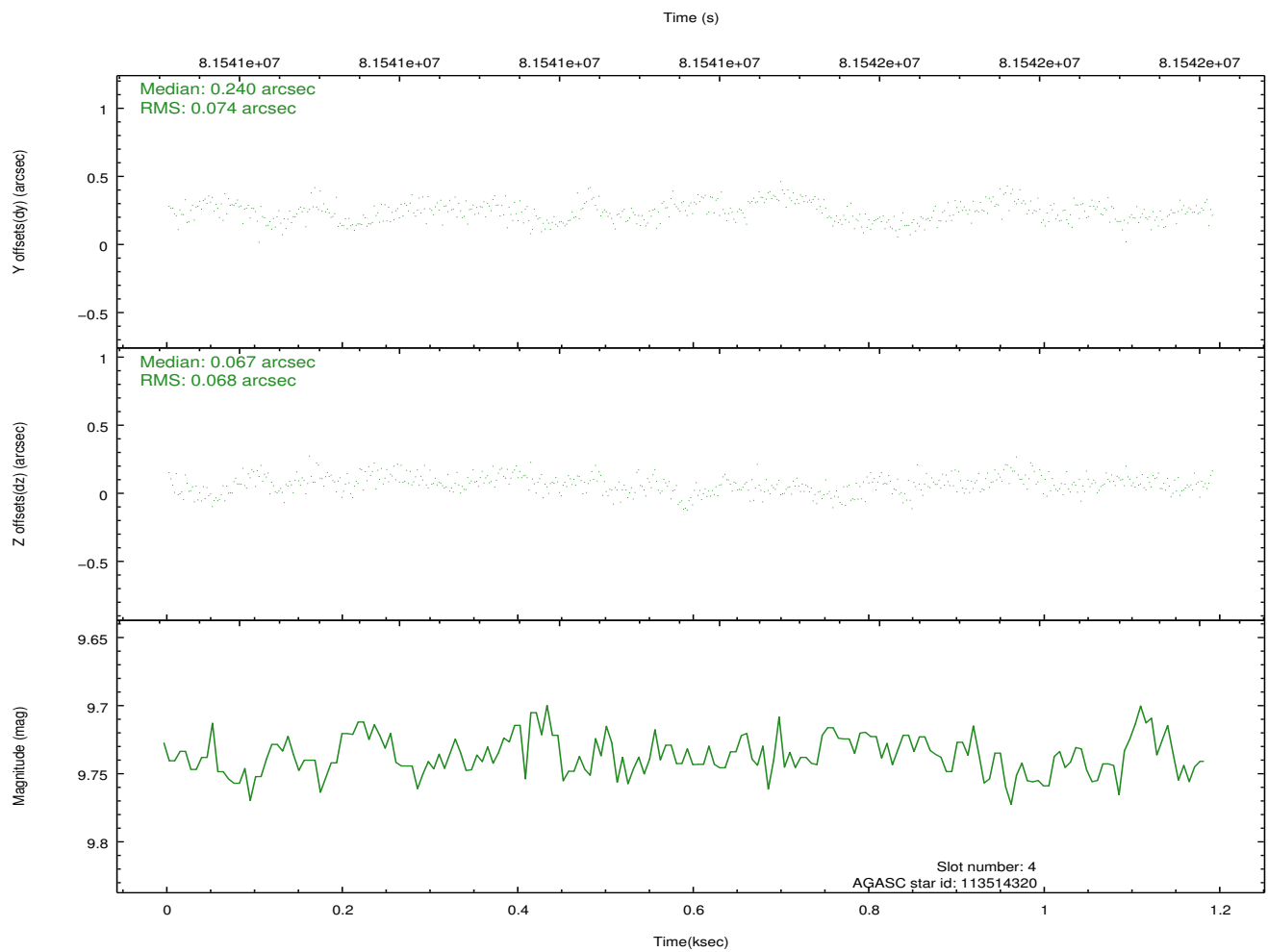
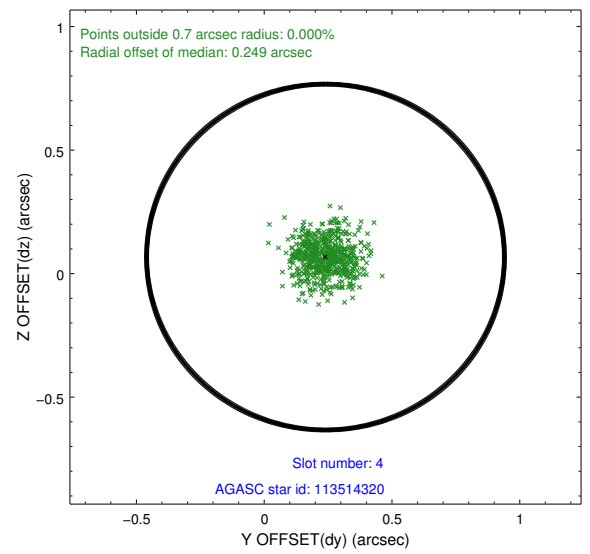
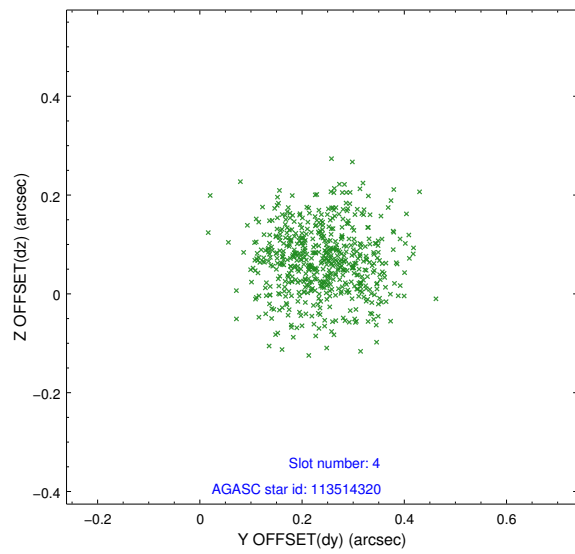
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	290	-0.045	-0.004	0.006	0.011	0.000000	0.000000	-753.76	-1727.30
1	FID	ACIS-S-4	7.21	290	0.008	0.023	0.005	0.009	0.000000	0.000000	2157.03	175.43
2	FID	ACIS-S-5	7.24	290	0.005	-0.010	0.006	0.009	0.000000	0.000000	-1799.33	175.43
3	GUIDE	113906616	7.93	581	-0.076	-0.025	0.085	0.122	183.239714	10.037718	298.30	2115.34
4	GUIDE	113514320	9.74	581	0.240	0.067	0.111	0.168	183.030216	9.556614	2163.26	1841.83
5	GUIDE	113909952	9.85	581	0.050	-0.114	0.091	0.146	182.703120	10.082649	629.50	237.66
6	GUIDE	113910808	10.20	581	-0.093	0.139	0.169	0.284	183.289541	10.594003	-1682.20	1775.06
7	GUIDE	113910864	6.19	580	-0.109	-0.058	0.078	0.130	183.358076	10.262342	-593.80	2317.12

## 2.4 Star Slots

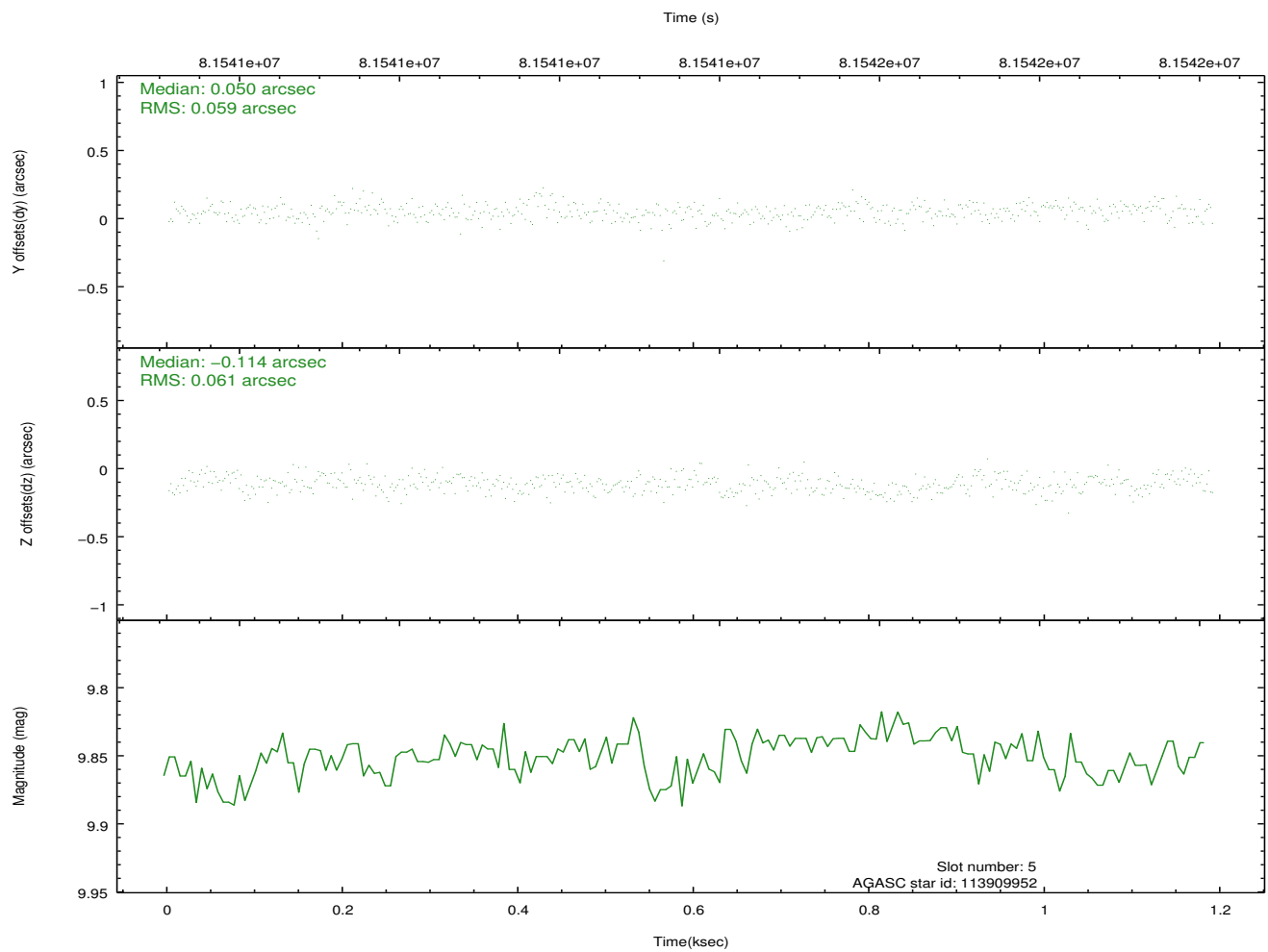
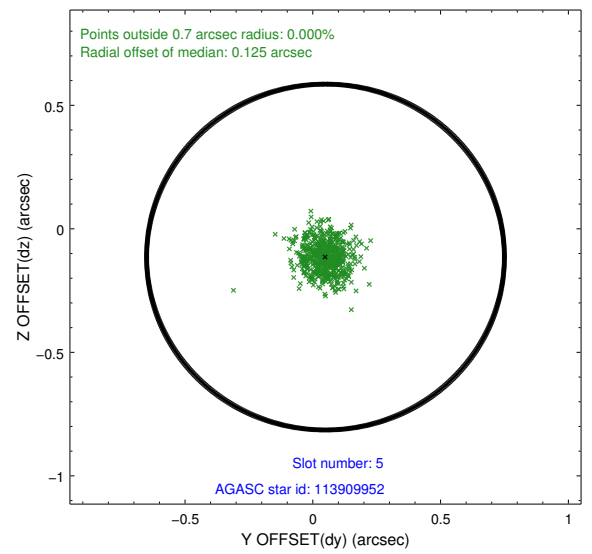
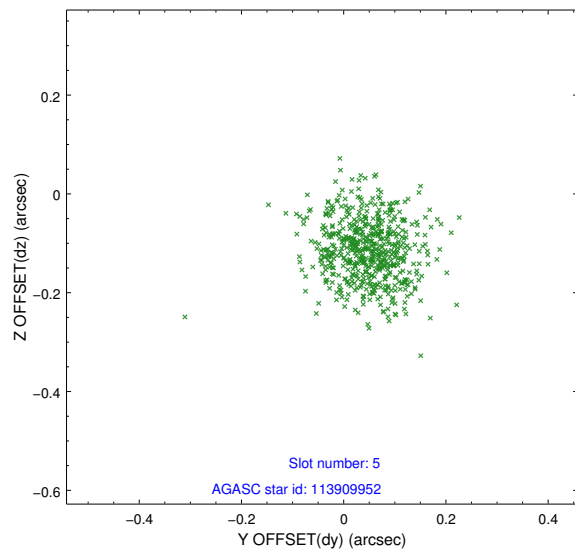
### 2.4.1 Slot 3



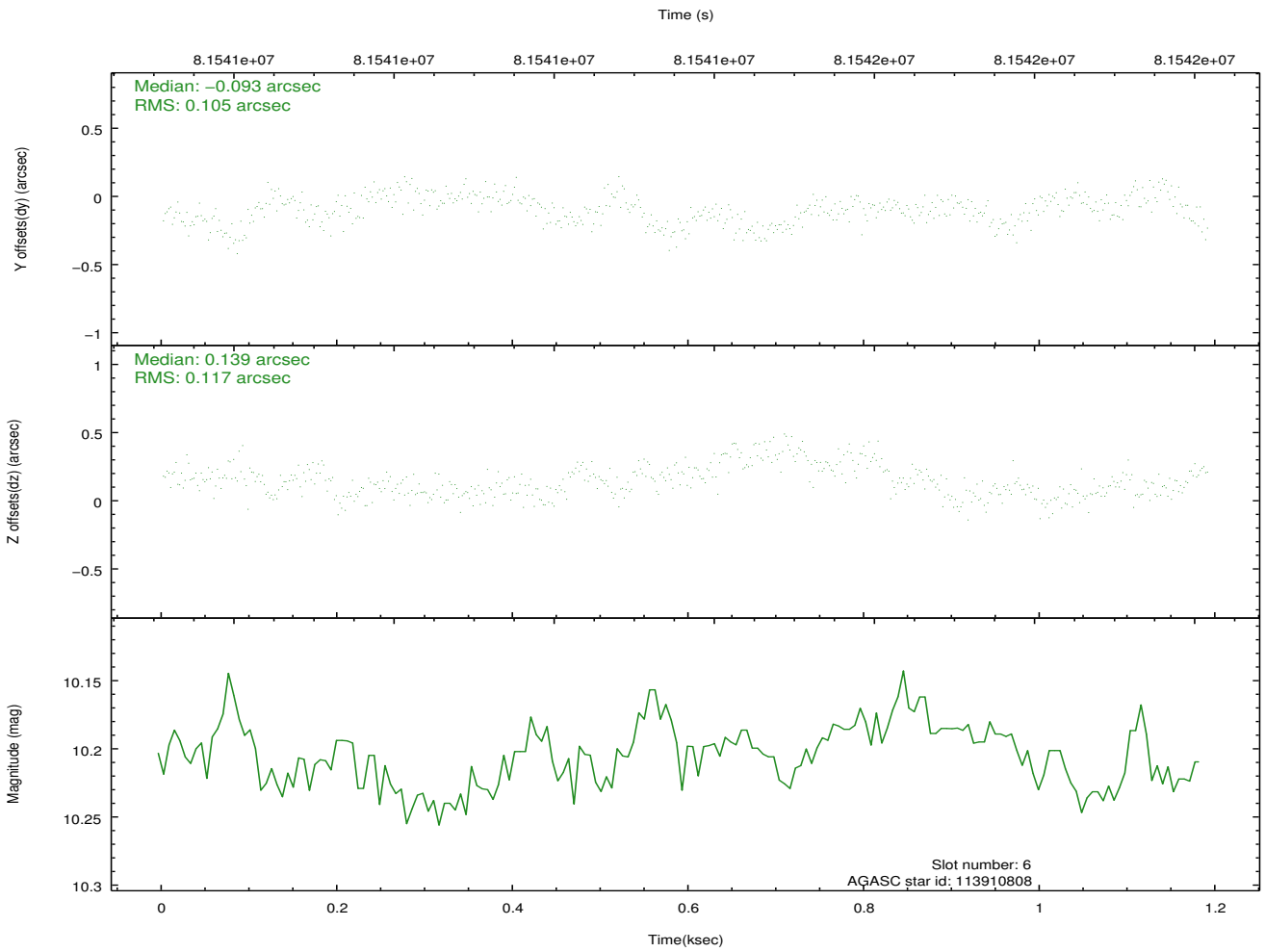
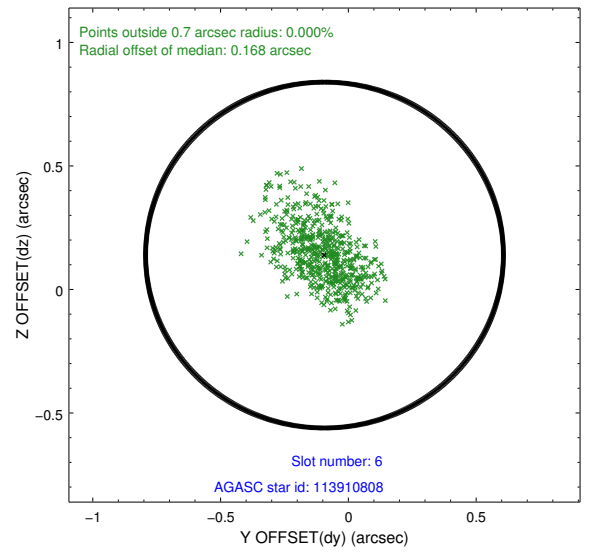
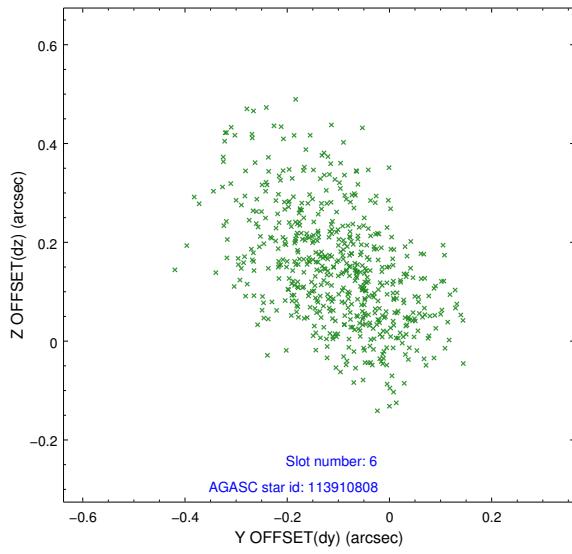
## 2.4.2 Slot 4



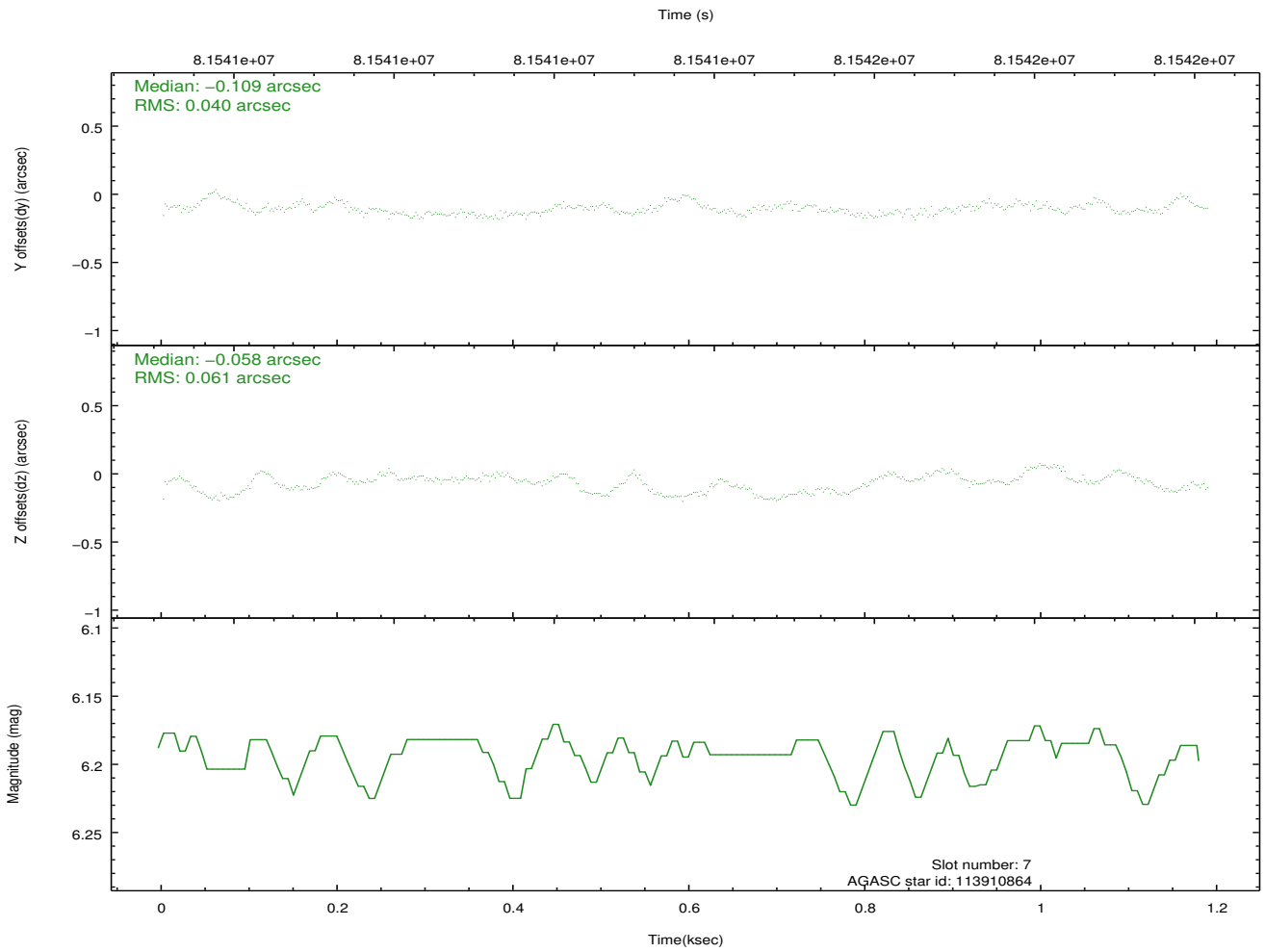
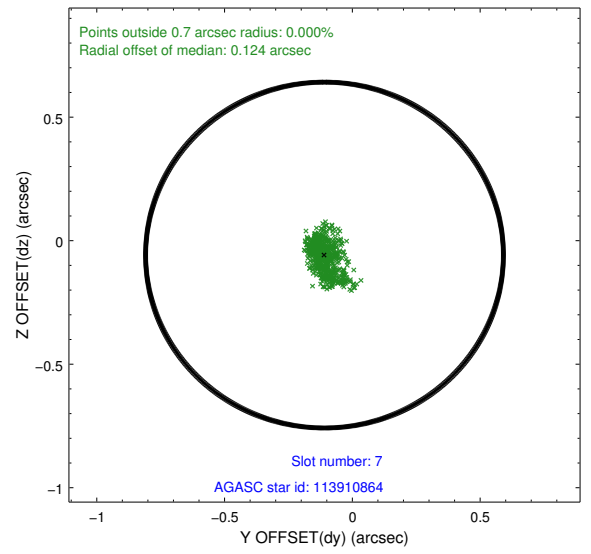
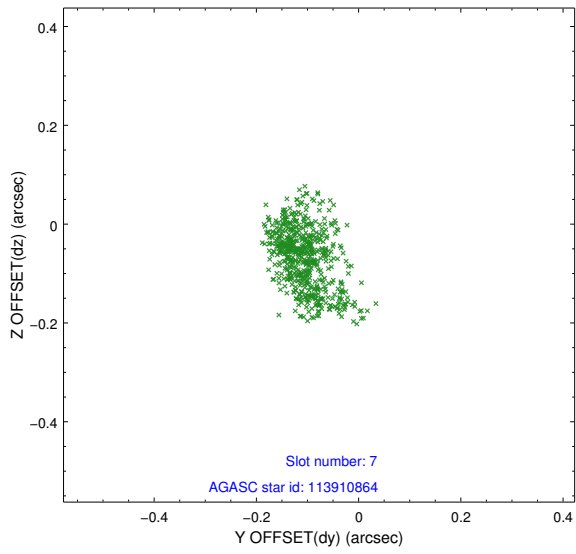
### 2.4.3 Slot 5



## 2.4.4 Slot 6

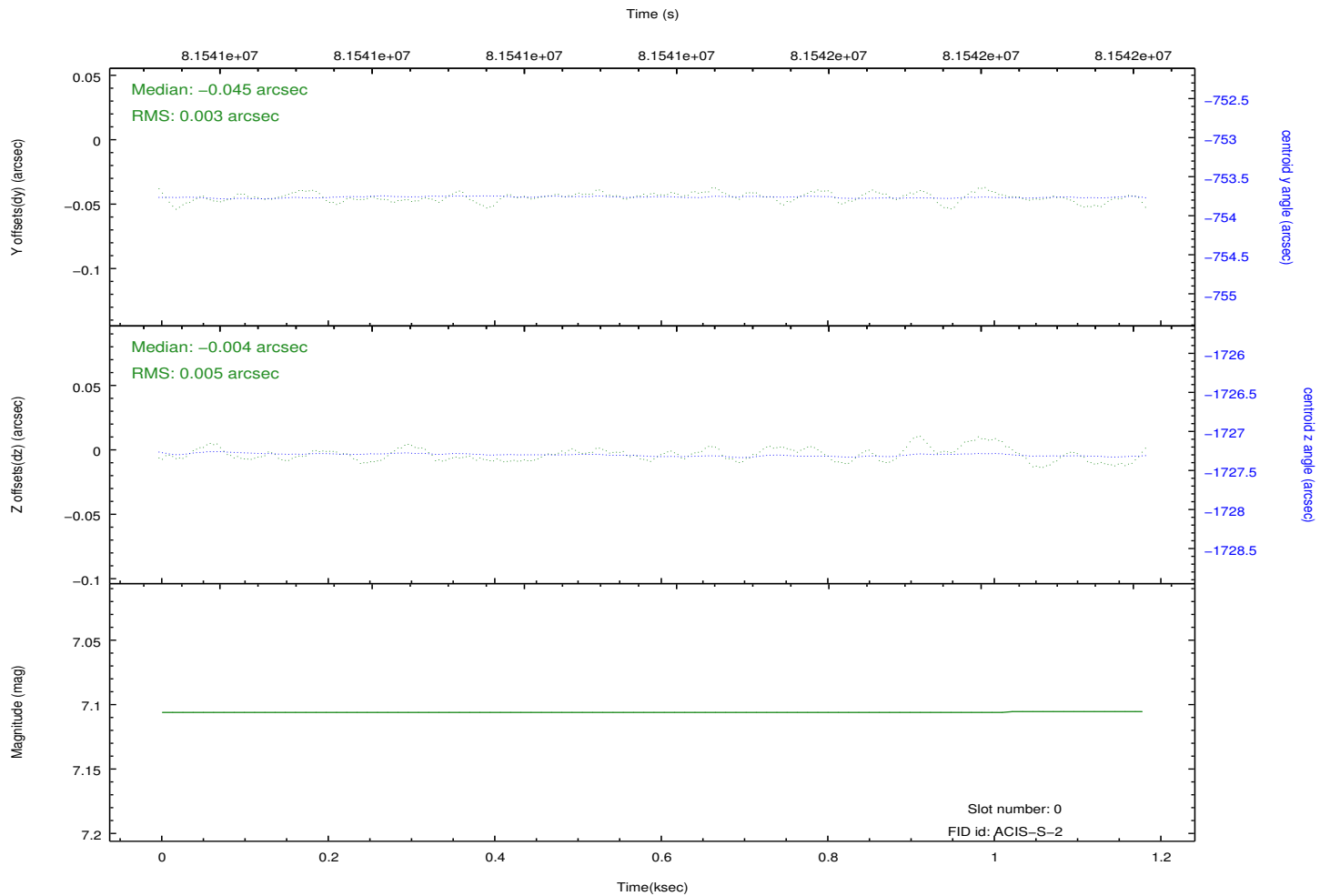
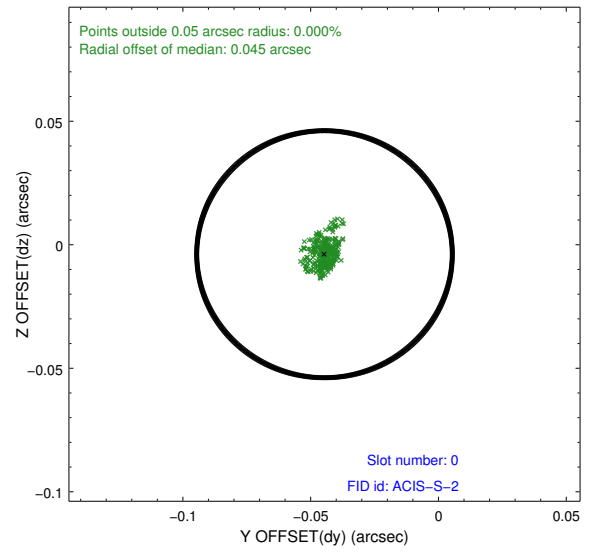
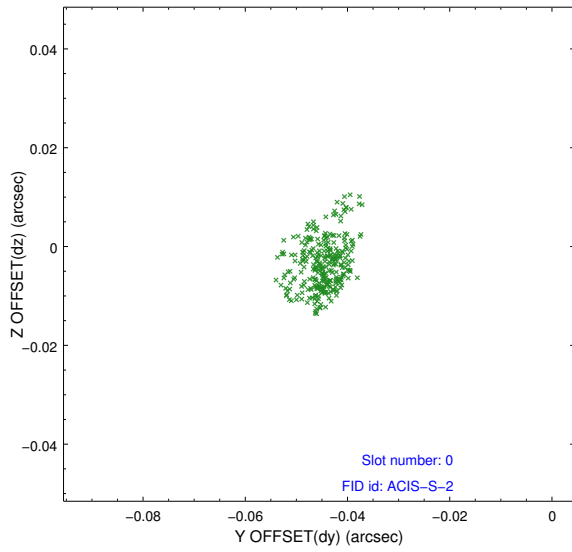


### 2.4.5 Slot 7

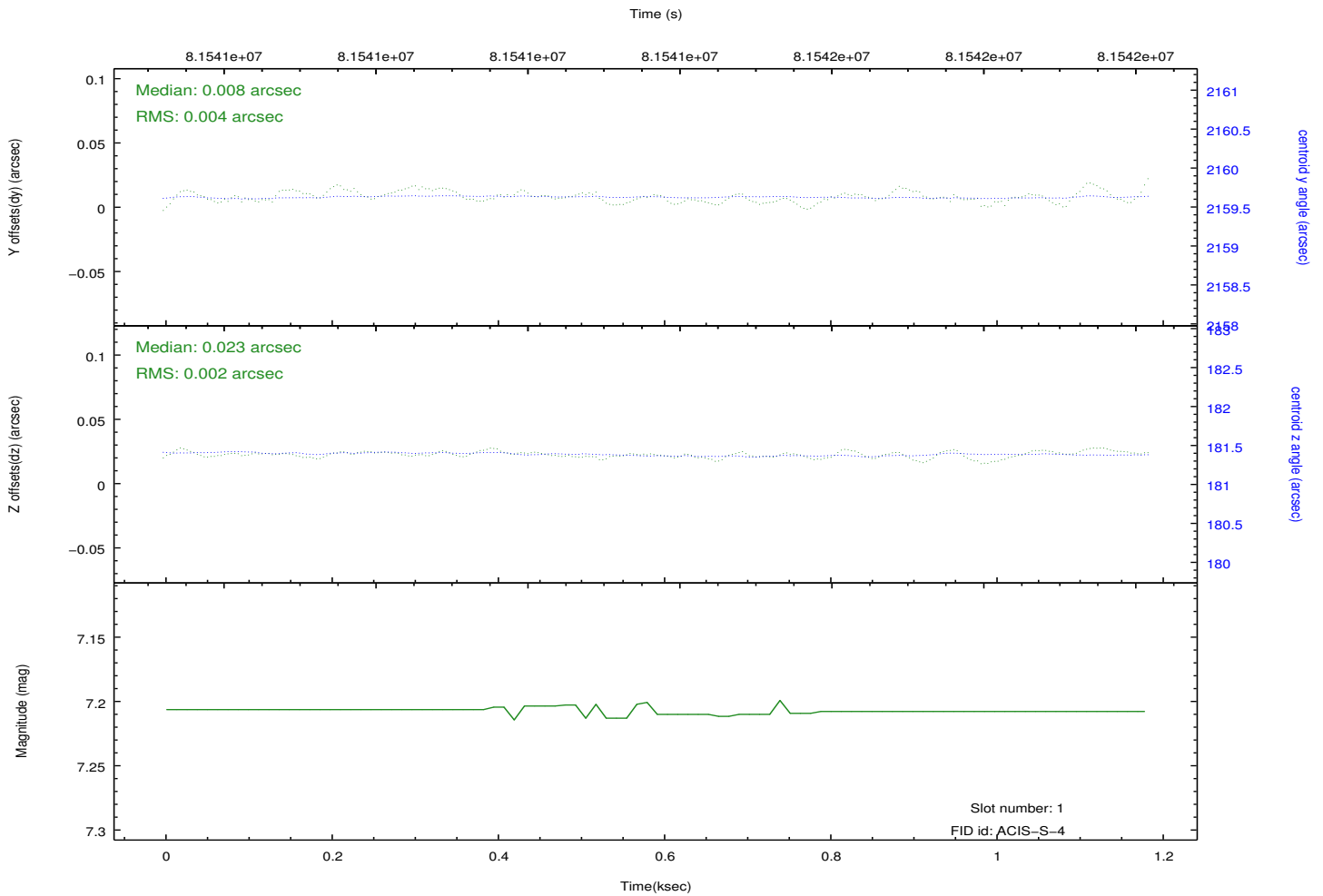
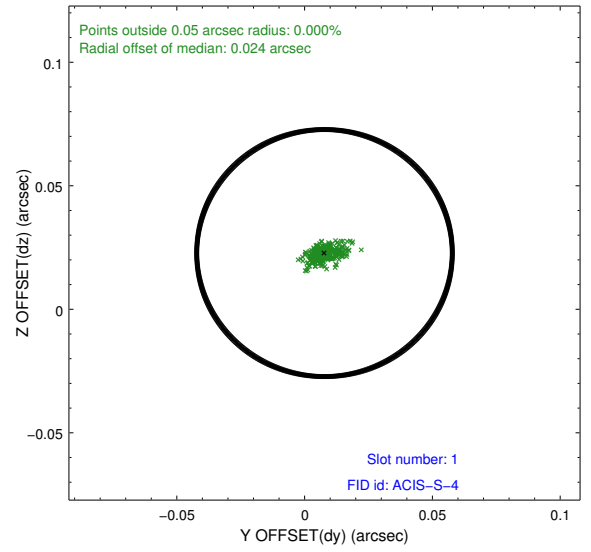
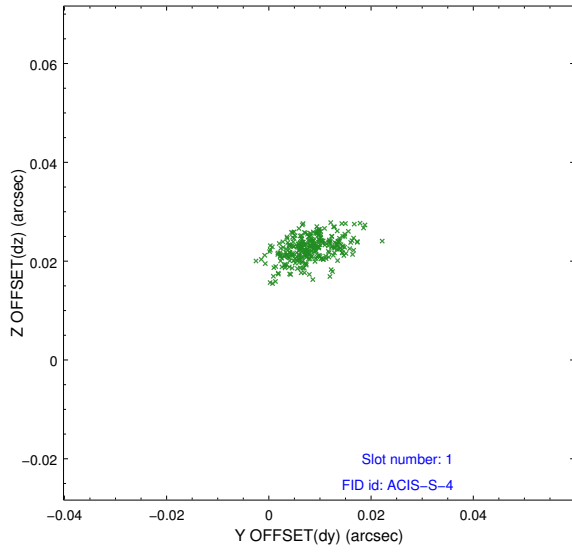


## 2.5 FID Slots

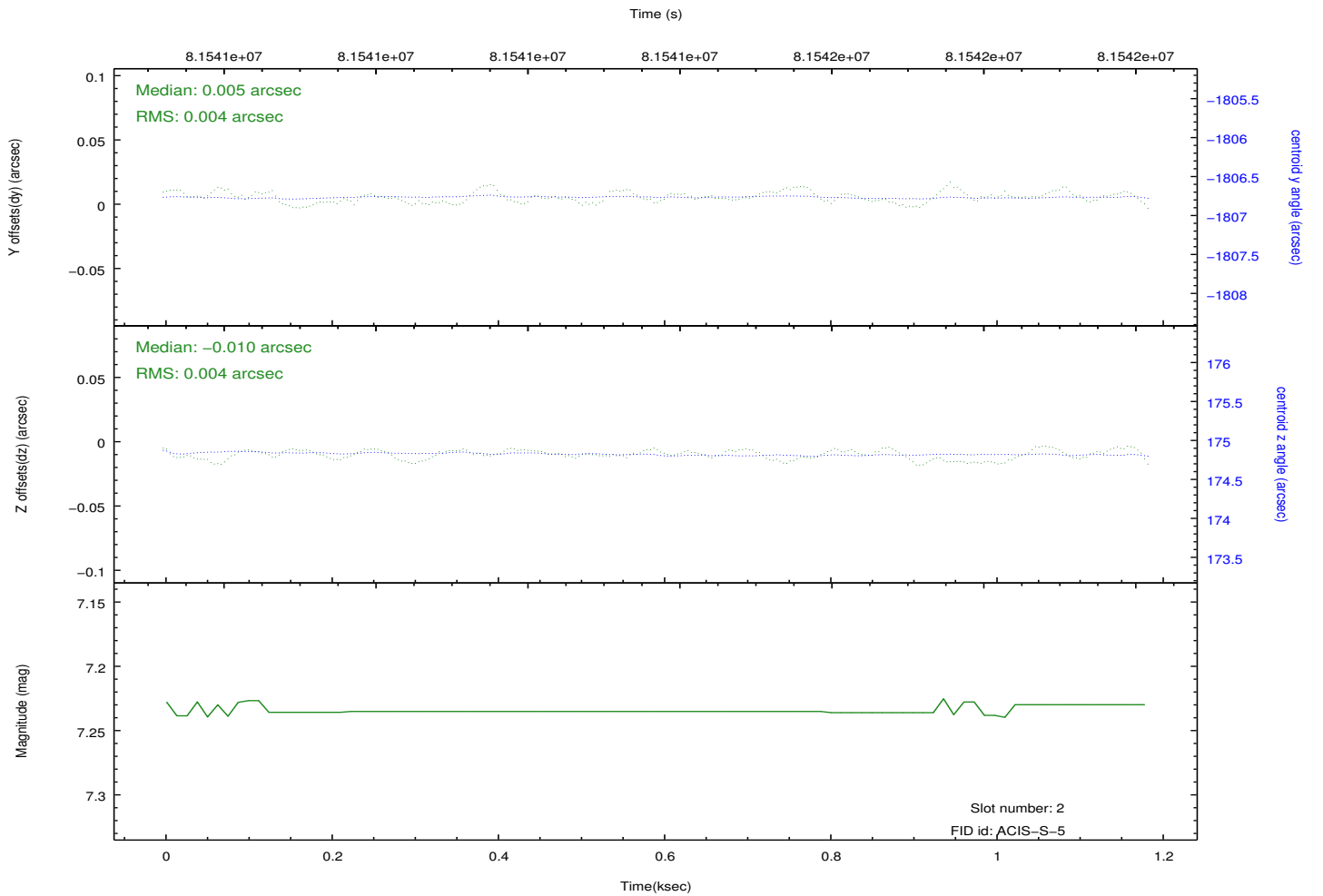
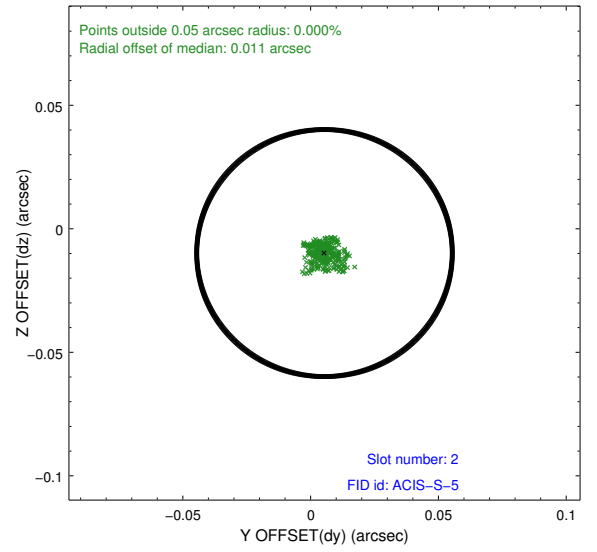
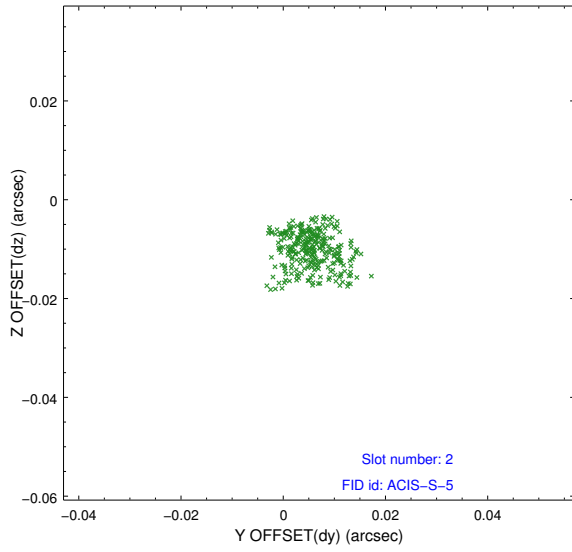
### 2.5.1 Slot 0



## 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)	2012.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.187

## A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.